Notice of Public Meeting: Wednesday, September 18th, 2019

Location: Door County Justice Center
Multi-Purpose Room, 1st Floor
1201 S Duluth Ave, Sturgeon Bay, WI

AGENDA

1. Call Meeting to Order at 10:30 a.m.
2. Establish a Quorum - Roll Call
3. Adopt Agenda / Properly Noticed
4. Approve Minutes: April 10th 2019
5. Public Comment
6. Old Business (Review / Action)
   • Emergency Management Report
   • Spill Reports - update
7. New Business (Review / Action)
   • Review/Approve: Committee By-Laws
   • Review/Approve: County Strategic Plan
   • Review/Approve: Off Site Plans
   • FYI: County Haz Mat MOU
8. Matters to be placed on a Future Agenda
9. Next Meeting Date: TBD
10. Adjourn

Deviation from the order shown above may occur

In compliance with the Americans with Disabilities Act, any person needing assistance to participate in this meeting, should contact the Office of the County Clerk at (920) 746 2200. Notification 72 hours prior to a meeting will enable the County to make reasonable arrangements to ensure accessibility to that meeting.
AGENDA

1. Call Meeting to Order at 10:30 a.m.
   Meeting called to order by Dan Kane at 1030 hours.

2. Establish a Quorum - Roll Call
   Present: Dan Kane, Peter Devlin, Susan Kohout, Curt Vandertie, Howie Hathaway, Pat McCarty, Aaron LeClair, Sue Powers, Peter Glasson

3. Adopt Agenda / Properly Noticed
   Motion Devlin, Second Kohout to adopt the agenda, unanimous

4. Approve Minutes: August 22nd 2018
   Motion Hathaway, Second LeClair to adopt the agenda, unanimous

5. Public Comment
   None

6. Old Business (Review / Action)
   • Emergency Management Report
     o Director Kane gave an update on current activities, a summary of training events, PR for Code Red, reminder of upcoming functional training drill on May 20th.
     o Update on grant money awarded to date
   • Spill Reports – update
     o A list of reported spills to date was reviewed.
     o Clarification was provided in regards to the copper sulfate spill. No health hazard was found.

7. New Business (Review / Action)
   • Committee By-Laws Revision
     o Motion Devlin, second Kohout to incorporate language designated Wisconsin Emergency Management as our compliance inspector, under Section II. Motion passed unanimously.
LEPC Overview Presentation – Steve Fenske; Wisconsin Emergency Management
  o Regional WEM Director gave a presentation to the group about the responsibilities of LEPCs

8. **Matters to be placed on a Future Agenda**
   None

9. **Next Meeting Date: TBD**

10. **Adjourn**
    Motion to adjourn by Vandertie, second by Hathaway, passed unanimous at 1201 hours.

Minutes submitted by Aaron LeClair
# Door County Spill Reports

<table>
<thead>
<tr>
<th>Date</th>
<th>Location</th>
<th>Substance</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>2/10/2017</td>
<td>605 N 3RD AVE; Sturgeon Bay</td>
<td>HYDRAULIC FLUID [HYDRAULIC OIL] (PETROLEUM)</td>
<td>1 cup</td>
</tr>
<tr>
<td>3/26/2017</td>
<td>605 N 3RD AVE; Sturgeon Bay</td>
<td>HYDRAULIC OIL</td>
<td>UNK</td>
</tr>
<tr>
<td>3/26/2017</td>
<td>605 N 3RD AVE; Sturgeon Bay</td>
<td>HYDRAULIC OIL</td>
<td>2 tbsp</td>
</tr>
<tr>
<td>3/30/2017</td>
<td>605 N 3RD AVE; Sturgeon Bay</td>
<td>PETROLEUM - UNKNOWN TYPE</td>
<td>UNK</td>
</tr>
<tr>
<td>4/1/2017</td>
<td>605 N 3RD AVE; Sturgeon Bay</td>
<td>HYDRAULIC FLUID</td>
<td>UNK</td>
</tr>
<tr>
<td>4/3/2017</td>
<td>605 N 3RD AVE; Sturgeon Bay</td>
<td>UNKNOWN OIL SHEEN</td>
<td>UNK</td>
</tr>
<tr>
<td>5/12/2017</td>
<td>9462 SHORE ROAD; Fish Creek</td>
<td>GASOLINE</td>
<td>10 gal</td>
</tr>
<tr>
<td>5/26/2017</td>
<td>OFF COUNTY ROAD J; Forestville</td>
<td>MANURE</td>
<td>UNK</td>
</tr>
<tr>
<td>5/26/2017</td>
<td>NORTH SIDE OF CR J; Brussels</td>
<td>MANURE</td>
<td>300 gal</td>
</tr>
<tr>
<td>6/12/2017</td>
<td>8953 STATE HWY 57; Baileys Harbor</td>
<td>HYDRAULIC OIL</td>
<td>UNK</td>
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<tr>
<td>6/15/2018</td>
<td>3971 SNAKE ISLAND ROAD; Sturgeon Bay</td>
<td>UNKNOWN (Sunk Vessel)</td>
<td>UNK</td>
</tr>
<tr>
<td>6/24/2018</td>
<td>2981 STONE RD; Sturgeon Bay</td>
<td>MINERAL OIL</td>
<td>30 gal</td>
</tr>
<tr>
<td>7/25/2018</td>
<td>5421 ERDMANN DR; Sturgeon Bay</td>
<td>MINERAL OIL</td>
<td>10 gal</td>
</tr>
<tr>
<td>7/26/2018</td>
<td>CTH Y; Union</td>
<td>MANURE</td>
<td>2000 gal</td>
</tr>
<tr>
<td>8/3/2018</td>
<td>3831 CLARK LAKE ROAD; Sevastopol</td>
<td>HYDRAULIC FLUID</td>
<td>UNK</td>
</tr>
<tr>
<td>8/18/2018</td>
<td>215 QUINCY ST; Sturgeon Bay</td>
<td>DIESEL FUEL</td>
<td>20 gal</td>
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<tr>
<td>8/24/2018</td>
<td>N45 08' 50&quot; W087 16' 05&quot;; Fish Creek</td>
<td>DIESEL FUEL</td>
<td>UNK</td>
</tr>
<tr>
<td>9/1/2018</td>
<td>10141 COUNTY ROAD Y</td>
<td>TRANSFORMER OIL [MINERAL OIL]</td>
<td>10 gal</td>
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<tr>
<td>9/5/2018</td>
<td>605 NORTH THIRD AVE; Sturgeon Bay</td>
<td>UNKNOWN OIL</td>
<td>.5 gal</td>
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<tr>
<td>9/21/2018</td>
<td>12756 N. COURT Des Morts Dr; Ellison Bay</td>
<td>MINERAL OIL</td>
<td>30 gal</td>
</tr>
<tr>
<td>10/23/2018</td>
<td>605 NORTH 3RD AVE; Sturgeon Bay</td>
<td>DIESEL FUEL</td>
<td>UNK</td>
</tr>
<tr>
<td>10/24/2018</td>
<td>HWY 57; Jacksonport</td>
<td>DIESEL FUEL</td>
<td>30 gal</td>
</tr>
<tr>
<td>10/26/2018</td>
<td>3083 ANDERSON LANE; EPHRAIM</td>
<td>SEWAGE</td>
<td>5,000 gal</td>
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<tr>
<td>11/1/2018</td>
<td>City Docks; Sturgeon Bay</td>
<td>OIL</td>
<td>UNK</td>
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<tr>
<td>1/24/2019</td>
<td>7643 HILLSIDE ROAD, EGG HARBOR, WI 54209</td>
<td>WASTEWATER</td>
<td>100 - 250 gal</td>
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<tr>
<td>2/27/2019</td>
<td>2501 CANAL RD; Sturgeon Bay, WI</td>
<td>PROPANE [NATURAL GAS]</td>
<td>850 gal</td>
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<td>3/26/2019</td>
<td>BURNS HARBOR; STURGEON BAY, WI</td>
<td>FUEL OIL</td>
<td>UNK</td>
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<tr>
<td>3/27/2019</td>
<td>9176 ST 57; Baileys Harbor, WI</td>
<td>PETROLEUM</td>
<td>7 gal</td>
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<tr>
<td>3/27/2019</td>
<td>6476 ST 42 Egg Harbor, WI</td>
<td>COPPER SULFATE</td>
<td>75 lbs</td>
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<tr>
<td>3/29/2019</td>
<td>705 QUARTER DECK LANE; Sturgeon Bay WI</td>
<td>DIESEL FUEL</td>
<td>50 gal</td>
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<td>4/8/2019</td>
<td>LYNCHS BLUFF RD AND ST 57; Brussels WI</td>
<td>PETROLEUM</td>
<td>UNK</td>
</tr>
<tr>
<td>4/16/2019</td>
<td>PRIVATE PROPERTY; Sturgeon Bay WI</td>
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<td>UNK</td>
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<tr>
<td>5/24/2019</td>
<td>1509 DIVISION ROAD; Sturgeon Bay WI</td>
<td>HYDRAULIC FLUID</td>
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</tr>
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<td>6/16/2019</td>
<td>212 WEST LOCUST COURT; Sturgeon Bay WI</td>
<td>Unknown</td>
<td>UNK</td>
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<tr>
<td>6/18/2019</td>
<td>COUNTY ROAD J NEAR HWY 42; Forestville WI</td>
<td>Liquid Manure</td>
<td>UNK</td>
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<tr>
<td>6/24/2019</td>
<td>1963 CTY RD C STURGEON BAY WI</td>
<td>Mineral Oil</td>
<td>20 gal</td>
</tr>
<tr>
<td>6/27/219</td>
<td>OREGON ST AND 1ST AVE Sturgeon Bay WI</td>
<td>PETROLEUM</td>
<td>2 gal</td>
</tr>
<tr>
<td>8/2/2019</td>
<td>10733 N BAYSHORE DR; Sister Bay WI</td>
<td>DIESEL FUEL</td>
<td>UNK</td>
</tr>
<tr>
<td>8/13/2019</td>
<td>PENINSULA PARK GOLF COURSE; EPHRAIM</td>
<td>SEPTAGE</td>
<td>50 gal</td>
</tr>
<tr>
<td>8/23/2019</td>
<td>SOUTHSIDE OF WOODS ROAD; Union</td>
<td>Liquid Manure</td>
<td>40,000 gal</td>
</tr>
</tbody>
</table>

23 August 2019
BY-LAWS

Of the

DOOR COUNTY LOCAL EMERGENCY PLANNING COMMITTEE
PURPOSE AND AUTHORIZATION

In order to protect the community from harmful and possibly life threatening effects of a hazardous materials release, this Local Emergency Planning Committee's (LEPC) purpose is to develop policies and procedures for responding to hazardous materials incidents and/or accidents in compliance with the requirements of Title III and the Superfund Amendments and Reauthorization Act of 1986 (SARA), PL 99-499; and Wisconsin Act 342, Hazardous Substances Information and Emergency Planning Act, and the 1989 Assembly Bill 353.

The By-Laws define the roles, responsibilities and inter/intra-organizational relations of government and private organizations in response to a hazardous material incident. They are formulated to be incorporated into the Door County Hazardous Materials Emergency Response Plan.

The LEPC is also charged with notifying the public of its activities, hold public meetings to discuss the emergency plan and obtain (and respond to) public comment, and finally to distribute the emergency plan.

SECTION I - MEETINGS

The LEPC has established a normal meeting location of the Door County Justice Center or the Government Center, Sturgeon Bay, Wisconsin. Meetings of the LEPC will be established by the Executive Committee and will be scheduled as needed and in accordance with the requirements of the Plan of Work. Special meetings of the LEPC may be called by the Chairperson with public notice of at least 72 hours prior to the event.

During emergency conditions when a release of a substance covered by the notification requirements of Title III, Section 304, has, is occurring, or is imminent, the Chairperson may call an emergency meeting of the LEPC as soon as possible with the provision that all responsible attempts are made to notify the public of the meeting through local media channels. The conduct of business of such meetings will be limited to those items required by the emergency conditions present.

Items to be included in the Agenda will be submitted to the Coordinator of Information at least five working days prior to meeting of the LEPC unless an emergency condition is present. The Agenda will be compiled and mailed (or emailed) to committee members, local media representatives and others who request copies, at least 24 hrs. prior to the meeting.
The LEPC will in every Agenda provide at least 30 minutes of time to receive public comments and input. Time for public comment will be allotted on a first come, first serve basis. The LEPC may limit comments to a certain time frame and limit public input time above 30 minutes per meeting with a majority roll call of the committee.

A quorum will consist of 50 percent of the State Emergency Response Board (SERB) approved membership of the LEPC. A majority vote of members present where a quorum exists will be needed for passage. Alternates will not be allowed voting privileges.

Members of the LEPC are required to attend 50% of the scheduled yearly meetings (when there is more than one meeting annually). If this requirement is not met, they will receive a letter asking of their intent to remain on the LEPC and if interest is not shown, they will be removed from the LEPC.

Minutes of all meetings and sessions of the LEPC will be distributed to committee members, the area office of the Division of Emergency Management (East Central Area) and others who request them. They will also be posted at the Door County Government Center. After the minutes are approved, they will be posted to the County website.

SECTION II - POSITIONS & APPOINTMENTS

CHAIRPERSON:

Subject to the requirements of Title III, Section 301(c), the chairperson shall be the Director of Door County Emergency Management. The Chairperson will preside over meetings of the LEPC and the Chairperson must be a member of the LEPC. The Chairperson will hold only one elected position in the LEPC.

VICE-CHAIRPERSON:

In order to assure the continuity of operations in the absence of the Chairperson, the committee has established a post of Vice-Chairperson. The Vice-Chairperson will be the Chief of the Sturgeon Bay Fire Department. In the absence of the Chairperson, the Vice-Chairperson will preside over meetings of the LEPC. The Vice-Chairperson will be elected for a term of two years and will be elected on odd numbered years. The Vice-Chairperson must be a member of the LEPC and may hold more than one elected position in the LEPC.

COORDINATOR OF INFORMATION:

Subject to the requirements of Title III, Section 301(c), the Committee will designate a Coordinator of Information who will serve at the pleasure of the committee. The
Coordinator of Information will undertake those duties and responsibilities as outlined under Title III, Section 301(c), and those other responsibilities and duties assigned by the LEPC. The LEPC may also designate Deputy Coordinators of Information to serve in the absence of the primary designee.

COMMUNITY EMERGENCY COORDINATOR:

Subject to the requirements of Title III, Section 303(c)(3), the Committee will designate a Community Emergency Coordinator who will serve at the pleasure of the Committee. The Community Emergency Coordinator will undertake those duties as assigned by the plan created under Title III, Section 303, and other responsibilities and duties assigned by the committee. The LEPC may also designate Deputy Community Emergency Coordinators as required.

SECRETARY:

In order to assure that proper minutes of all meetings are kept, the Chairperson or head of any Committee or subcommittee shall designate a Secretary to keep minutes of the business conducted. Such minutes shall be forwarded to the Coordinator of Information for distribution as required.

COMPLIANCE INSPECTOR

In order to ensure compliance with all Local, State, and Federal regulations in regards to hazardous spills, the LEPC will utilize the State of Wisconsin as its compliance inspector. This position is tasked with ensuring that the responsible party for each spill is cleaned to compliance standards and any payments due as a result of the spill are paid.

SECTION III - STANDING COMMITTEES

Executive Committee: The Executive Committee shall consist of the Chairperson and Vice-Chairperson (either of whom may serve as presiding officer), the Secretary, the Community Emergency Coordinator of the LEPC and other standing committee chairpersons. The charged tasks of the Executive Committee are.

During emergency conditions when a release of a substance covered by the notification requirements of Title III, Section 304, has or is occurring, or is imminent, either Chairperson may call an emergency meeting of the Executive Committee, however, the business conducted by the Executive Committee shall be limited to those items required by the emergency conditions present. It shall be the responsibility of the Executive Committee to make a report to the full LEPC membership as soon as possible after an emergency
occurs.

The Executive Committee shall have the power to cancel any regularly scheduled meetings of the LEPC membership pursuant to Section I of these By-Laws.

The Executive Committee shall present LEPC members with names for nominations to positions within the LEPC fifteen (15) days prior to any election. Any vacancies occurring on the Executive Committee shall be filled through appointments made by the Executive Committee subject to LEPC approval at the next meeting.

Any regular member of the LEPC may nominate any other LEPC member, from the floor, at the time of an election provided prior consent from the LEPC member being nominated has been obtained for said nomination.

Plan Development: The Plan Development Committee shall consist of regular LEPC members appointed by the Chairperson for a two year term. The purpose of this committee shall be to gather information from facilities, government agencies, or any other sources as are necessary to assist in the development of off-site plans for those facilities reporting as required under SARA Title III. The Plan Development Committee is also responsible to identify industries with hazardous materials and notify them of their responsibilities. All information gathered shall be forwarded to the Door County Emergency Management Office and incorporated into the Door County Hazardous Materials Emergency Response Plan in proper form.

Education Sub-Committee: The Education Sub-Committee shall consist of at least one (1) regular LEPC member, whose term on this Sub-Committee shall run concurrent with his/her LEPC membership, and as many other members of the community as necessary to accomplish this Sub-Committee’s goals and directives. The purpose of this Sub-Committee shall be to provide current information on legislation, training, and education opportunities to the regular LEPC membership. This Sub-Committee shall also be responsible for informing and educating the general public on requirements, amendments, and all other matters concerning SARA, Title III and the Door County LEPC.

Emergency Response Committee: The Emergency Response Committee shall consist of regular LEPC members appointed by the Chairperson for a two year term. The purpose of this committee shall be to determine the readiness of the County, LEPC and its emergency agencies to respond to an emergency. They will also identify said participants to a response and coordinate said response with other response agencies or departments. The Committee will assure that the County operates within its Emergency Operating Plan. They will assist with the establishment of a level "B" Haz-Mat team and coordinate with level "A" team. The Committee will assist with the recertification of the level "B" team.
Special Committees: Special Committees of the LEPC shall be appointed by the Chairperson for terms as long as necessary to accomplish their specific goals.

SECTION IV - BY-LAWS REVISIONS

These By-Laws may be revised upon fifteen (15) days prior notice to the regular LEPC membership and upon a majority vote of all members.

Revised 7/93
Revised 11/96
Revised 5/97
Revised 8/98
Revised 9/01 (accepted 11/01)
Revised 9/03
Revised 9/04
Revised 9/06
Revised 4/10
Revised 7/2015
Revised 8/2017
Revised 9/2018
Revised 8/2019
Door County EPCRA
County-Wide Strategic Plan
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VII. IDENTIFICATION OF MAJOR TRANSPORTATION ROUTES

VIII. EVACUATION/SHELTER PROCEDURES

IX. RESOURCE MANAGEMENT

X. RESPONSE PROCEDURES

XI. CLEANUP, DOCUMENTATION AND INVESTIGATIVE FOLLOW-UP

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XIII. EXERCISES

County-Wide Plan Requirements (Attachments):

ATTACHMENT A  Map identifying highways, waterways, and airport
ATTACHMENT B  Population breakdown by municipalities
ATTACHMENT C  List of Planning facilities
ATTACHMENT D  List of Reporting facilities
ATTACHMENT E  Spill Reports
I. Purpose

1. The purpose of this hazardous materials response plan is to develop policies and procedures for responding to hazardous materials incidents and/or accidents in compliance with the requirements of Title III of EPCRA (SARA) of 1986, as codified in 42 USC 11000 to 11050 and s. 323.61, Wis. Stats., in order to protect the community from the harmful and possibly life threatening effects of a hazardous materials release.

2. This plan defines the roles, responsibilities, and inter/intra-organizational relations of government and private organizations in response to a hazardous material incident and includes requirements for the development/update of the Strategic Plan.

3. It forms a part of the county’s Emergency Response Plan (ERP), by reference.

II. Promulgation Statement

PROMULGATION STATEMENT FOR COUNTY-WIDE PLAN/STRATEGIC PLAN

This plan is adopted as the Door County Hazardous Materials County-Wide Plan/Strategic Plan for incidents involving use, storage or manufacture, and transportation of hazardous materials or Level “B” emergency response team identification and coverage. It is designed to comply with all applicable federal and state regulations, and provides the policies and procedures to be followed in dealing with such incidents.

This plan supersedes all other Door County plans for response to a hazardous materials incident.

Adopted this 9th Day of May 2001

[Signature of County Board Chair]
### LOCAL EMERGENCY PLANNING COMMITTEE
#### APPOINTMENT LIST

<table>
<thead>
<tr>
<th>Name</th>
<th>Group</th>
<th>Agency/Organization</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pat McCarty</td>
<td>2</td>
<td>Door County Sheriff Department</td>
<td>Member</td>
</tr>
<tr>
<td>Aaron LeClair</td>
<td>2</td>
<td>Door County EMS Department</td>
<td>Secretary</td>
</tr>
<tr>
<td>Susan Kohout</td>
<td>1</td>
<td>Door County Board Supervisor</td>
<td>Member</td>
</tr>
<tr>
<td>Howie Hathaway</td>
<td>4</td>
<td>Amateur Radio (Citizen at large)</td>
<td>Member</td>
</tr>
<tr>
<td>Susan Powers</td>
<td>2</td>
<td>Door County Public Health</td>
<td>Member</td>
</tr>
<tr>
<td>Tim Dietman</td>
<td>2</td>
<td>Sturgeon Bay Fire Department</td>
<td>Co-Chair</td>
</tr>
<tr>
<td>Daniel Kane</td>
<td>2</td>
<td>Door County EM/Communications</td>
<td>Co-Chair</td>
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<tr>
<td>Glenn Nelson</td>
<td>5</td>
<td>Fincantieri Bay Shipbuilding</td>
<td>Member</td>
</tr>
<tr>
<td>Carrie Gossen</td>
<td>2</td>
<td>Door County Dispatch</td>
<td>Member</td>
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<tr>
<td>Haley Adams</td>
<td>1</td>
<td>Baileys Harbor Town Board</td>
<td>Member</td>
</tr>
<tr>
<td>Pete Devlin</td>
<td>3</td>
<td>Door County Advocate</td>
<td>Member</td>
</tr>
<tr>
<td>Curt Vandertie</td>
<td>2</td>
<td>Brussels, Union, Gardner (BUG) Fire</td>
<td>Member</td>
</tr>
<tr>
<td>Bob Mayer</td>
<td>4</td>
<td>Red Cross</td>
<td>Member</td>
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<tr>
<td>Arleigh Porter</td>
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<td>Sturgeon Bay Police Department</td>
<td>Member</td>
</tr>
<tr>
<td>Dan Brinkman (Alternate)</td>
<td>2</td>
<td>Sturgeon Bay Police Department</td>
<td>Alternate</td>
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</table>
IV. Responsibilities

1. Local Emergency Planning Committee
   a) Develop the county-wide hazardous materials plan/strategic plan and off-site facility plan appendixes in coordination with the Emergency Management Director, annually review and update, and ensure that exercises are conducted as required.

   b) Review the off-site facility emergency plans submitted by facilities.

   c) Publish, annually, a notice in the local newspaper that the hazardous materials emergency response plan/strategic plan and facility off-site appendixes, material safety data sheets and inventory forms have been submitted under Section 324 of Title III, and are available for public inspection.

   d) Provide information to the public as required in Section. 312 of Title III, consistent with Section 322, Trade Secrets.

   e) Receive and maintain copies of all EPCRA reports.

   f) Community Emergency Coordinator and/or the Emergency Management Director make the determinations along with the Facility Emergency Coordinators, necessary to implement the hazardous materials plan/strategic plan.

2. Emergency Management Groups

   a) Responsibilities and coordination are covered in the county ERP, Emergency Support Function (ESF) 5 Emergency Management.

3. Fixed Facility

   a) Planning requirements; any facility that produces, uses or stores any of the extremely hazardous substances in quantities equal to or greater than threshold planning quantities are required to participate in the emergency planning process.

   b) Reporting requirements

      (i) An owner/operator of a facility subject to the provisions of EPCRA Sections 311/312 must comply under the requirements of s.323.60, Wis. Stats. [MSDS chemlist/Tier Two filings].

      (ii) Employees and agents of facilities are obligated to comply with the provisions for the discharge (release or spill) of a hazardous substance as required under the state hazardous substance spill law, s. 292.11, Wis. Stats.
V. HAZARD ANALYSIS (See appendices and attachments for more information)

A. County Profile

Door County encompasses 482 (US Census Bureau Quick Facts) square miles in the East Central region of Wisconsin. The Door Peninsula is surrounded by 27 islands, the largest being Washington and Chambers. There are nine significant bodies of water in the County (See Attachment A):


Approximately 55% of the county is agricultural; 38% is industrial, government, and urban and 7% is educational.

There are approximately 27,610 (US Census Bureau Quick Facts) residents in Door County. Population centers are widely dispersed throughout the County (See Attachment B). Approximately 33% of the population is urban residents and 67% are rural. There are over approximately 13,159 households in the County averaging about 2.06 persons per household. The per capita income for the County is approximately $34,253.

The County contains approximately 269 miles of state highways, 592 miles of County highways, and 1743 miles of local roads, totaling 1287 miles of road network. The Door County airport located west of the City of Sturgeon Bay is the primary airport that serves the area. The airport has 2 runways, is lighted and equipped for instrument landing.

Retail trade and services are the principal areas of employment followed by manufacturing and government. Furthermore, the unemployment rate for Door County has remained above both the state and national averages. The County’s unemployment rate was 3.1% in June of 2019. Door County’s unemployment rate is directly associated with the tourism season. The employment in the County has a very seasonal pattern which increases by 25-30 percent during the summer months and then declines in late fall. Door County sees approximately 2.2 million visitors per year.

There are approximately 600 farms in the County with 99% of those being family farms. Of the 600 farms, 250 are active farms. Furthermore, 113 of the 250 are dairy farms (vs. crop farms). The remaining farms are orchard and tree farms.

The County is serviced by one hospital, Door County Memorial Hospital in Sturgeon Bay. There are numerous Medical Centers: Aurora Medical Center and Bellin Medical Center in Sturgeon Bay, Nor Dor Clinic in Sister Bay, North Shore Medical Clinic in Sturgeon Bay, & Washington Island Clinic.
<table>
<thead>
<tr>
<th>Largest Employers</th>
<th>Type of Business</th>
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<tbody>
<tr>
<td>Finicantari/Bay Ship</td>
<td>Ship Repair &amp; Construction</td>
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<tr>
<td>Ministry Door County Medical Center</td>
<td>Health Care</td>
</tr>
<tr>
<td>County of Door</td>
<td>County Government</td>
</tr>
<tr>
<td>Hatco Corporation</td>
<td>Commercial Kitchen Equipment</td>
</tr>
<tr>
<td>School District of Sturgeon Bay</td>
<td>Elementary &amp; Secondary Schools</td>
</tr>
<tr>
<td>NEW Industries</td>
<td>Custom Machining</td>
</tr>
<tr>
<td>Southern Door Public School</td>
<td>Elementary &amp; Secondary Schools</td>
</tr>
<tr>
<td>Marine Travelift/ExecTech</td>
<td>Boat &amp; Industrial Hoists</td>
</tr>
<tr>
<td>Econo Foods</td>
<td>Grocery</td>
</tr>
<tr>
<td>Therma-Tron-X</td>
<td>Industrial Finishing Systems</td>
</tr>
<tr>
<td>Door County YMCA</td>
<td>Civic &amp; Social Organization</td>
</tr>
<tr>
<td>WireTech Fabricators</td>
<td>Wire Products</td>
</tr>
<tr>
<td>Pick N Save</td>
<td>Grocery</td>
</tr>
</tbody>
</table>
B. Facilities subject to emergency planning: (see attachment C)

C. Tier II Facilities (see attachment D)

D. Map (see attachment A)

E. List of most common EHSs at fixed facilities in the County:

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Chemical Name</th>
<th>Max Amt. present at any one facility:</th>
</tr>
</thead>
<tbody>
<tr>
<td>7705080</td>
<td>Ferric Chloride</td>
<td>6700 gallons (Egg Harbor WWTP)</td>
</tr>
<tr>
<td>7705080</td>
<td>Ferric Chloride</td>
<td>54,000 pounds (Fish Creek WWTP)</td>
</tr>
<tr>
<td>7782505</td>
<td>Chlorine</td>
<td>600 lbs. (Sturgeon Bay wells)</td>
</tr>
<tr>
<td>7664939</td>
<td>Sulfuric Acid</td>
<td>1718 lbs. (Ameritech)</td>
</tr>
<tr>
<td>74986</td>
<td>Liquid Petrol.</td>
<td>51,000 gal (DC Coop-fertilizer plant)</td>
</tr>
<tr>
<td>86500</td>
<td>Azinphos Methyl</td>
<td>465 lbs (DC Coop-fertilizer plant)</td>
</tr>
<tr>
<td>1912249</td>
<td>Atrazine</td>
<td>200 lbs (KB spraying)</td>
</tr>
<tr>
<td>1910425</td>
<td>Gramoxone</td>
<td>50 gallons (DC Coop-fertilizer plant)</td>
</tr>
<tr>
<td>732116</td>
<td>Imidan</td>
<td>800 lbs (DC Coop-fertilizer plant)</td>
</tr>
</tbody>
</table>

See off-site facility plans for more comprehensive EHS chemical/facility/response information and vulnerability zone maps.

F. List of most common EHS and Tier II chemicals transported through the county

There are approximately 12 EHSs located in fixed facilities through Door County. These substances range in quantity from 150 - 4,125 pounds per facility site.

It is assumed that exposure to all transported hazardous substances in Door County will be the result of road or air transportation. Furthermore, it is assumed that the largest over-the-road container does not carry more the 55,050 pounds of product.

There are approximately 12 different EHSs transported annually throughout Door County, but the potential exists for the transport of any EHS listed on the United States Environmental Protection Agency’s List of Lists or the Department of Labor’s Occupational Safety and Health Administration’s Toxic and Hazardous Substances List. These substances are transported in containers that range from 10 ounce agricultural packages to 196,000 pounds of rail car quantities.
VI. NOTIFICATION

A. Methods for determining that a release has occurred

1. Door County Emergency Dispatch Center will receive initial notification that a release has occurred by various means.
   a. From the facility
   b. First responder radio transmission or phone call
   c. Citizen report

B. Incident Report Form

1. The Emergency Management /DNR person receiving the notification of a hazardous substance discharge (spill / release) will acquire as much information as possible, and will complete the “Substance Spill/Release Alert Form”.

2. A list of all spills that occur in the County will be kept by Emergency Management and are found in Attachment E in order to provide a spill history for Strategic Plan purposes.

The SUBSTANCE SPILL/RELEASE ALERT FORM follows:
24 Hour Emergency Hotline Number: 1-800-943-0003

<table>
<thead>
<tr>
<th>Date &amp; Mil. Time of Incident</th>
<th>Date &amp; Mil. Time Reported</th>
<th>Spill File #</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Person Reporting</th>
<th>Representing:</th>
<th>Phone # (    )</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Responsible Party/Spiller</th>
<th>RP Decision based on</th>
<th>Phone # (    )</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Contact Name</th>
<th>Phone # (    )</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Address</th>
<th>City, State, Zip Code</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Substance Involved</th>
<th>Amount &amp; Units Released</th>
<th>Amount Recovered</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Solid  - Semisolid  - Liquid  - Gas  
- Color:  
- Odor:  

<table>
<thead>
<tr>
<th>Exact Location (Inc. address, facility name, mileage, bldg. #, etc)</th>
<th>Property owner (if known)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>City</th>
<th>County</th>
<th>Lat/Long</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DNR Region</th>
<th>NER</th>
<th>1/4</th>
<th>1/4 sec</th>
<th>NR</th>
<th>(E/W)</th>
<th>Weather Cond.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cause of Incident:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Spilled Substance Impact To:</th>
<th>Spill Source:</th>
<th>Action Taken by Spiller:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Check ( ) all that apply:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Air</td>
<td>Transportation Accident, Fuel Tank Spill</td>
<td>No Action Taken</td>
</tr>
<tr>
<td>Soil</td>
<td>Transportation Accident, Load Spill</td>
<td>No Action Needed</td>
</tr>
<tr>
<td>Groundwater</td>
<td>Industrial Facility</td>
<td>Monitor</td>
</tr>
<tr>
<td>Surface Water</td>
<td>Paper Mill</td>
<td>Cleanup Method:</td>
</tr>
<tr>
<td></td>
<td>Chemical Co.</td>
<td>Waste Destination:</td>
</tr>
<tr>
<td></td>
<td>Ag Coop/Facility/Food Factory/Facility</td>
<td>Containment</td>
</tr>
<tr>
<td></td>
<td>Gas/Service Station/Garage/Auto Dealer/Repair Shop</td>
<td>Contractor Hired</td>
</tr>
<tr>
<td></td>
<td>Pipeline/Terminal/Tank Farm/Oil Jobber/Wholesaler</td>
<td>Name:</td>
</tr>
<tr>
<td></td>
<td>Public Property (city, state, church, school, etc.)</td>
<td>Other:</td>
</tr>
<tr>
<td></td>
<td>Utility Co. Power Generating/Transfer Facility</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Private Property (home/farm)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Construction, Evacuation, Wrecking, Quarry, Mine</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Airport Facility</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Railroad Facility</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Other:</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Injuries?</th>
<th>Yes</th>
<th>No</th>
<th>If yes how many?</th>
<th>Has an evacuation occurred?</th>
<th>Yes</th>
<th>No</th>
<th>Potential?</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Are there any resource damages?</td>
<td>Yes</td>
<td>No</td>
<td>Potential? What kinds?</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Other agencies notified (check first column if notified) check both columns if on the scene</th>
<th>Incident Commander, if known:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fire Department</td>
<td>Local DNR</td>
</tr>
<tr>
<td>LEPC or Local Emer. Mgt.</td>
<td>Coast Guard</td>
</tr>
<tr>
<td>Fire Department</td>
<td>Local DNR</td>
</tr>
<tr>
<td>LEPC or Local Emer. Mgt.</td>
<td>Coast Guard</td>
</tr>
<tr>
<td>Level A/Level B Team</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Prepared by:</th>
<th>Phone:</th>
<th>Date:</th>
<th>Rpt’d to DATCP?</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Person Notified:</td>
<td>Phone:</td>
<td>Date:</td>
<td>Time:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Investigated by:</td>
<td>Sign</td>
<td>Date</td>
<td>Incident Closed?</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Spill Coordinator Signoff:</td>
<td>Date:</td>
<td>Transferred to: ERP</td>
<td>DATCP</td>
<td>Date:</td>
<td>NFA Letter Sent?</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Case #</td>
<td>Spill Packet Sent?</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

10 August 2019
<table>
<thead>
<tr>
<th>Date and Military Time of Incident:</th>
<th>Responsible Party:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Additional Comments:</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Case Activity Report:</th>
<th>Yes ☐ No ☐</th>
<th>CAR#: (Please attach copy of all CAR and other documentation)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enforcement Action:</td>
<td>Yes ☐ No ☐</td>
<td>(Explain Below)</td>
</tr>
</tbody>
</table>
C. Alert, Warning and Emergency Public Information
   1. Alert procedures are covered in the county ERP, ESF 2 Communications.
   2. Emergency Public Information is covered in the county ERP, ESF 2 Communications.

D. Communications
   1. Communication procedures are covered in the county ERP, ESF 2 Communications.

E. Special Title III Notification Requirements for Facilities
   1. Community Emergency Coordinator for the LEPC must be notified of any spills or releases subject to the notification requirements of EPCRA (SARA) Section 304.
      Contact (Daniel Kane 746-7195 (w) 495-2535 (c))
   2. WEM and the Department of Natural Resources (DNR) must be notified of a spill/release per the requirements of s.s. 292.11 and 323.60, Wis. Stats. Contact 1-800-943-0003.
   3. The National Response Team under section 103(a) of CERCLA and Section 304 of EPCRA. Contact 1-800-424-8802.
   4. The owner or operator shall provide written follow-up emergency notice as soon as possible after a release that requires notice under Section 304 (a).

VII. IDENTIFICATION OF MAJOR TRANSPORTATION ROUTES

Reference attachment A

VIII. EVACUATION/SHELTER PROCEDURES

A. Evacuation/Shelter Procedures are covered in the County ERP ESF 6 Mass Care, Housing and Human Services.

IX. RESOURCE MANAGEMENT

Resource management is covered in the county ERP ESF 7 Resource Support. Resource lists are an attachment of the county ERP, therefore those below are only those resources specific to a hazardous materials incident.

A. Resource List
   1. Door County does not have a Level B Hazmat team and does not intend to organize a team at this time. Door County will utilize Veolia who holds the State contract for Hazmat related incidents.
Resources available from the facility are listed in that facility’s off-site plan. See appendices.

2. Federal Assistance
   a. National Response Center (800-424-8802)
   b. Agency For Toxic Substances and Disease Registry (404-452-4100)
   c. Nuclear Regulatory Commission (301-951-0550)
   e. CHEMTREC (800-424-9300)

X. RESPONSE PROCEDURES

A. Direction and Control
   1. Direction and control procedures are covered in the County ERP, ESF 5 Emergency Management.

B. Emergency Action Checklists
   1. Emergency Action Checklists are in the county ERP for each Emergency Support Function.

C. Individual Agency Plans (IAPs)
   1. IAPs which address specific elements such as chain of command, support systems, containment and decontamination procedures, SOPs, etc., exist for each agency.

XI. CLEANUP, DOCUMENTATION AND INVESTIGATIVE FOLLOW-UP

A. Department of Natural Resource’s (DNR’s) responsibility under the Wisconsin Spill Law s. 292.11, Wis. Stats.
   1. Responsibility is based on Administrative Code NR 706 for follow-up on reported releases or spills.
   2. DNR field staff may respond through DNR regional offices. DNR region personnel perform a variety of duties:
a. Investigate spills  
b. Ensure that responsible party restores the damaged environment to its original state  
c. Oversee proper disposal  
d. Select and supervise contractors for emergency investigation and clean-up  
e. Provide data to process enforcement actions and reimbursement billings  
f. Maintain spill response equipment  

3. In most instances, the responsible party and local authorities handle a spill quickly and competently. In these cases, the DNR investigates the incident and ensures that clean-up is accomplished. When the Department becomes involved in spill clean-up, DNR field staff act as project managers, reviewing investigation results and selecting clean-up measures.

I. TRAINING

A. Training

1. Training procedures are covered in the county ERP ESF 10. All departments/organizations affected by the ERP receive training annually.

B. Below is a list of specific courses sponsored by Wisconsin Emergency Management. For more information call the WEM Training Officer or the WEM Hazardous Materials Training Coordinator.

- Hazardous Materials Awareness  
- Exercise Design Course  
- Exercise Evaluation Course  
- Tabletop Exercise Workshop G 120.T  
- Incident Command System/Emergency Operations Center Interface  
- Incident Command System for Law Enforcement  
- Incident Command System for Emergency Medical Service  
- Incident Command system for Public Works  
- Incident Command System Self Study  
- Incident Command System National Wildfire Curriculum (MIIMS)  
- Hazardous Materials Incident Management, National Fire Academy  
- CAMEO Basic  
- CAMEO Intermediate  
- ICS/NIMS 300 & 400  
- PIO Basic and Advanced

C. Local training efforts: Periodic courses are offered throughout the County at various times.

XIII. EXERCISES

A. Exercises will be scheduled and conducted annually per EPCRA requirements. The county emergency management director will coordinate the schedule of exercises.
B. Record of exercises held:

<table>
<thead>
<tr>
<th>Exercise Type</th>
<th>Location</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Table Top</td>
<td>Door County</td>
<td>3/10/1998</td>
</tr>
<tr>
<td>Full Scale</td>
<td>Egg Harbor</td>
<td>8/23/1998</td>
</tr>
<tr>
<td>Table Top</td>
<td>Sturgeon Bay</td>
<td>4/5/2000</td>
</tr>
<tr>
<td>Functional</td>
<td>Washington Island</td>
<td>9/16/2000</td>
</tr>
<tr>
<td>Functional</td>
<td>County Building</td>
<td>12/13/2001</td>
</tr>
<tr>
<td>Table Top</td>
<td>Sturgeon Bay High School</td>
<td>5/31/2002</td>
</tr>
<tr>
<td>Table Top</td>
<td>County Courthouse</td>
<td>11/4/2002</td>
</tr>
<tr>
<td>Full Scale</td>
<td>Sturgeon Bay</td>
<td>4/24/2003</td>
</tr>
<tr>
<td>Full Scale</td>
<td>Sister Bay</td>
<td>5/14/2005</td>
</tr>
<tr>
<td>Table Top</td>
<td>Sturgeon Bay</td>
<td>2/1/2008</td>
</tr>
<tr>
<td>Table Top</td>
<td>Southern Door</td>
<td>3/1/2008</td>
</tr>
<tr>
<td>Full Scale</td>
<td>Sturgeon Bay</td>
<td>4/1/2008</td>
</tr>
<tr>
<td>Table Top</td>
<td>Pandemic</td>
<td>10/1/2008</td>
</tr>
<tr>
<td>Table Top</td>
<td>Utilities Sturgeon Bay</td>
<td>3/21/2011</td>
</tr>
<tr>
<td>Table Top</td>
<td>Marine</td>
<td>6/19/2012</td>
</tr>
<tr>
<td>Full Scale</td>
<td>Marine</td>
<td>7/11/2014</td>
</tr>
<tr>
<td>Table Top</td>
<td>Door County</td>
<td>4/22/2015</td>
</tr>
<tr>
<td>Table Top</td>
<td>Door County</td>
<td>8/22/2017</td>
</tr>
<tr>
<td>Table Top</td>
<td>Door County</td>
<td>8/16/2018</td>
</tr>
<tr>
<td>Functional</td>
<td>Justice Center</td>
<td>5/20/2019</td>
</tr>
<tr>
<td>-------------------------</td>
<td>-----------------</td>
<td>-----------------</td>
</tr>
<tr>
<td>Baileys Harbor</td>
<td>1,003</td>
<td>1022</td>
</tr>
<tr>
<td>Brussels</td>
<td>1,112</td>
<td>1136</td>
</tr>
<tr>
<td>Clay Banks</td>
<td>410</td>
<td>382</td>
</tr>
<tr>
<td>Egg Harbor village</td>
<td>250</td>
<td>201</td>
</tr>
<tr>
<td>Egg Harbor town</td>
<td>1194</td>
<td>1342</td>
</tr>
<tr>
<td>Ephraim village</td>
<td>353</td>
<td>288</td>
</tr>
<tr>
<td>Forestville village</td>
<td>429</td>
<td>430</td>
</tr>
<tr>
<td>Forestville town</td>
<td>1086</td>
<td>1096</td>
</tr>
<tr>
<td>Gardner town</td>
<td>1197</td>
<td>1194</td>
</tr>
<tr>
<td>Gibraltar town</td>
<td>1063</td>
<td>1021</td>
</tr>
<tr>
<td>Jacksonport town</td>
<td>738</td>
<td>705</td>
</tr>
<tr>
<td>Liberty Grove town</td>
<td>1858</td>
<td>1734</td>
</tr>
<tr>
<td>Nasewaupee town</td>
<td>1873</td>
<td>2061</td>
</tr>
<tr>
<td>Sevastopol town</td>
<td>2667</td>
<td>2628</td>
</tr>
<tr>
<td>Sister Bay village</td>
<td>886</td>
<td>876</td>
</tr>
<tr>
<td>Sturgeon Bay city</td>
<td>9437</td>
<td>9144</td>
</tr>
<tr>
<td>Sturgeon Bay town</td>
<td>865</td>
<td>818</td>
</tr>
<tr>
<td>Union town</td>
<td>880</td>
<td>999</td>
</tr>
<tr>
<td>Washington town</td>
<td>660</td>
<td>708</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>27,961</strong></td>
<td><strong>27,785</strong></td>
</tr>
</tbody>
</table>
Attachment C: List of Planning Facilities

List on file in the Emergency Management office as well as at the State Dept. of Military Affairs.

<table>
<thead>
<tr>
<th>Facility Name</th>
<th>Address</th>
<th>Contact Person</th>
</tr>
</thead>
<tbody>
<tr>
<td>150221 GRENCHIK FARM</td>
<td>3482 COUNTY 'E' BAILEY'S HARBOR, WI 54202</td>
<td>NORBERT P. GRENCHIK</td>
</tr>
<tr>
<td>160745 KITA FARM</td>
<td>W3646 COUNTY EE FISH CREEK, WI 54212</td>
<td>GERALD KITA</td>
</tr>
<tr>
<td>149105 KRAUSE FARM</td>
<td>9116 CTY HWY 'C' STURGEON BAY, WI 54235</td>
<td>UNKNOWN</td>
</tr>
<tr>
<td>144624 KROWAS FARM</td>
<td>7591 S. MAPLE ROAD BAILEYS HARBOR, WI 54202</td>
<td>DAN KROWAS</td>
</tr>
<tr>
<td>143682 LAUTENBACH FARM</td>
<td>9197 HIGHWAY 42 FISH CREEK, WI 54212</td>
<td>ROBERT LAUTENBACH</td>
</tr>
<tr>
<td>147925 LONG FARM</td>
<td>4072 MATHEY ROAD STURGEON BAY, WI 54235</td>
<td>LUCAS LONG</td>
</tr>
<tr>
<td>143773 WOOD FARM, SITE NO. 8</td>
<td>1724 N 14TH AVE STURGEON BAY, WI 54235</td>
<td>STEVE LONG</td>
</tr>
<tr>
<td>143694 MANN ORCHARD</td>
<td>6099 GORDON RD STURGEON BAY, WI 54235</td>
<td>UNKNOWN</td>
</tr>
<tr>
<td>143761 RICHMOND ORCHARD</td>
<td>8251 HIGHWAY 57 STURGEON BAY, WI 54235</td>
<td>UNKNOWN</td>
</tr>
<tr>
<td>161311 WAL-MART #1316</td>
<td>1536 EGG HARBOR RD STURGEON BAY, WI 54235</td>
<td>DOOR COUNTY CO-OP</td>
</tr>
<tr>
<td>100123 AGRONOMY CENTER</td>
<td>7460 HIGHWAY 42-57 STURGEON BAY, WI 54235</td>
<td>VILLAGE OF SISTER BAY</td>
</tr>
<tr>
<td>68246 SISTER BAY UTILITIES WWTP</td>
<td>2124 AUTUMN COURT SISTER BAY, WI 54234</td>
<td>VILLAGE OF SISTER BAY</td>
</tr>
<tr>
<td>135348 SISTER BAY UTILITIES #2 WELL</td>
<td>10596 HWY 57 SISTER BAY, WI 54234</td>
<td>VILLAGE OF SISTER BAY</td>
</tr>
<tr>
<td>13368 AT&amp;T – STURGEON BAY ESS (PN5314)</td>
<td>111 S. THIRD AVE STURGEON BAY, WI 54235</td>
<td>WI BELL INC/AT&amp;T</td>
</tr>
<tr>
<td>200342 Charter Cable Partners, LLC</td>
<td>3475 BAGNALL RD STURGEON BAY, WI 54235</td>
<td>CHARTER COMMUNICATIONS</td>
</tr>
<tr>
<td>123931 DULUTH AVENUE  WELLS #8</td>
<td>236 S DULUTH AVE STURGEON BAY, WI 54235</td>
<td>STURGEON BAY UTILITIES</td>
</tr>
<tr>
<td>112231 MARTIN PARK WELLS #7</td>
<td>207 PENNSYLVANIA ST STURGEON BAY, WI 54235</td>
<td>STURGEON BAY UTILITIES</td>
</tr>
<tr>
<td>123943 QUINCY ST. WELLS #6</td>
<td>328 S 12TH AVE STURGEON BAY, WI 54235</td>
<td>STURGEON BAY UTILITIES</td>
</tr>
<tr>
<td>99635 STURGEON BAY UTILITIES-WELLS #3</td>
<td>N 3RD AVE AT FLORIDA ST STURGEON BAY WI</td>
<td>STURGEON BAY UTILITIES</td>
</tr>
<tr>
<td>112243 TACOMA BEACH WELL #10</td>
<td>TACOMA BEACH RD AT CLAY BANKS RD</td>
<td>STURGEON BAY UTILITIES</td>
</tr>
</tbody>
</table>
Attachment D: List of Reporting Facilities

List on file in the Emergency Management office as well as at the State Dept. of Military Affairs.

<table>
<thead>
<tr>
<th>Facility Name</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>196354 BAILEYS HARBOR LP BULK PLANT</td>
<td>8427 HIGHWAY 57 BAILEYS HARBOR, WI 54202</td>
</tr>
<tr>
<td>DOOR COUNTY COOPERATIVE</td>
<td></td>
</tr>
<tr>
<td>194877 BAILEY’S HARBOR READY MIX 50002</td>
<td>8431 HIGHWAY 57 BAILEYS HARBOR, WI 54202</td>
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<tr>
<td>PREMIER CONCRETE INCORPORATED</td>
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<tr>
<td>59439 BAILEY’S HARBOR WWTP</td>
<td>2605 SUMMIT ROAD BAILEY’S HARBOR, WI 54202</td>
</tr>
<tr>
<td>TOWN OF BAILEY’S HARBOR</td>
<td></td>
</tr>
<tr>
<td>39647 FRONTIER COMMUNICATIONS</td>
<td>8082 GUY STREET BAILEYS HARBOR, WI 54202</td>
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<tr>
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<td></td>
</tr>
<tr>
<td>200250 ANDRE PIT</td>
<td>698 PLEASANT RIDGE ROAD BRUSSELS, WI 54204</td>
</tr>
<tr>
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<td></td>
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<tr>
<td>153405 DOOR COUNTY HIGHWAY</td>
<td>1729 CTH DK STURGEON BAY, WI 54235</td>
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<td></td>
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<tr>
<td>39659 FRONTIER COMMUNICATIONS</td>
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<td>194234 HORSESHOE BAY GOLF CLUB</td>
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<td>HORSESHOE BAY GOLF CLUB</td>
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<tr>
<td>136316 EGG HARBOR MARINA</td>
<td>7815 DOCK ROAD EGG HARBOR, WI 54209</td>
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<td>56009 EGG HARBOR WWTP</td>
<td>4548 BALL PARK ROAD EGG HARBOR, WI 54209</td>
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<tr>
<td>172437 LAKES GAS CO</td>
<td>6276 HIGHWAY 42 EGG HARBOR, WI 54209</td>
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<td>LAKES GAS CO</td>
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<tr>
<td>70122 EPHRAIM WWTP</td>
<td>10285 TOWN LINE DRIVE EPHRAIM, WI 54211</td>
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<tr>
<td>200233 CenturyLink - Forestville CO</td>
<td>129 W GRAND AVE FORESTVILLE, WI 54213</td>
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<tr>
<td>CENTURYTEL, INC. DBA</td>
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<td>153417 JOHNSON PIT</td>
<td>5962 JOHNSON RD. STURGEON BAY, WI 54235</td>
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<td>196346 MILL ROAD QUARRY</td>
<td>7796 CENTER RD FORESTVILLE, WI 54213</td>
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<tr>
<td>196333 SIMON PIT</td>
<td>9563 GRAVEL PIT ROAD BRUSSELS, WI 54204</td>
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<td>DOOR COUNTY</td>
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<tr>
<td>196345 BIWER QUARRY</td>
<td>3503 PENINSULA PLAYERS RD FISH CREEK, WI 54212</td>
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<td></td>
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<tr>
<td>68777 FISH CREEK WASTEWATER TREATMENT</td>
<td>3815 COUNTY ROAD F FISH CREEK, WI 54212</td>
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<td>PLANT</td>
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<td>FISH CREEK WASTE WATER TREATMENT PLAN</td>
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<tr>
<td>114071 GIBRALTAR SCHOOL</td>
<td>3924 HIGHWAY 42 NORTH FISH CREEK, WI 54212</td>
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<td>GIBRALTAR AREA SCHOOLS 2016</td>
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<td>196344 PLUM BOTTOM ROAD QUARRY</td>
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<td>DOOR COUNTY COOPERATIVE 2016</td>
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<td>136146 DOOR COUNTY CHERRYLAND AIRPORT</td>
<td>3538 PARK DRIVE STURGEON BAY, WI 54235</td>
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<td>DOOR, COUNTY</td>
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<td>Company Name</td>
<td>Address 1</td>
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<tr>
<td>199488 GASCO</td>
<td>7258 HWY 42 &amp; 57 STURGEON BAY, WI</td>
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<td>134942 LAKES GAS CO</td>
<td>2136 SCHOOL LANE GARDNER, WI</td>
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<tr>
<td>198359 MILTON PROPANE, INC.</td>
<td>2988 WANEK ROAD STURGEON BAY, WI</td>
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<tr>
<td>197506 STURGEON BAY CONTROL #35</td>
<td>2730 CTH MM STURGEON BAY, WI</td>
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<tr>
<td>199156 Sturgeon Bay Ready Mix 50003</td>
<td>6969 HWY 42/57 STURGEON BAY, WI</td>
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<tr>
<td>196343 WARD QUARRY</td>
<td>7270 SAND BAY RD STURGEON BAY, WI</td>
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<td>105680 SCHOOL DISTRICT OF SEVASTOPOL</td>
<td>4550 HIGHWAY 57 INSTITUTE, WI</td>
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<tr>
<td>194879 BEACON MARINE, LLC</td>
<td>10701 OLD STAGE ROAD SISTER BAY, WI</td>
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<td>43789 FERRELLGAS, INC.</td>
<td>10628 NORTH HIGHLAND SISTER BAY, WI</td>
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<td>5098 FRONTIER COMMUNICATIONS</td>
<td>262 HIGHWAY 57 SISTER BAY, WI</td>
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<td>130142 LAKES GAS CO. #31.1</td>
<td>2613 BAY SHORE DRIVE SOUTH SISTER BAY, WI</td>
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<td>196334 NORTH SHOP</td>
<td>147 HWY 57 SISTER BAY, WI</td>
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<td>68246 SISTER BAY UTILITIES</td>
<td>2124 AUTUMN COURT SISTER BAY, WI</td>
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<tr>
<td>135336 SISTER BAY UTILITIES #1 WELL</td>
<td>2279 SCANDIA SISTER BAY, WI</td>
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<td>135348 SISTER BAY UTILITIES #2 WELL</td>
<td>10596 HWY 57 SISTER BAY, WI</td>
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<tr>
<td>201031 Advanced Disposal Solid Waste Midwest</td>
<td>1509 DIVISION RD STURGEON BAY, WI</td>
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<td>13368 AT&amp;T - STURGEON BAY ESS (PN5314)</td>
<td>111 SOUTH THIRD STREET STURGEON BAY, WI</td>
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<tr>
<td>200067 Bay Marine of Sturgeon Bay, Inc</td>
<td>155 EAST REDWOOD STREET STURGEON BAY, WI</td>
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<tr>
<td>138728 BISSEN ASPHALT LLC</td>
<td>934 SHILOH ROAD STURGEON BAY, WI</td>
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<tr>
<td>200342 Charter Cable Partners, LLC</td>
<td>3475 BAGNALL RD STURGEON BAY, WI</td>
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<tr>
<td>200023 COUNTRY VISIONS COOPERATIVE</td>
<td>2982 WANEK ROAD STURGEON BAY, WI</td>
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<tr>
<td>140446 DOOR COUNTY HIGHWAY DEPARTMENT</td>
<td>916 14TH AVENUE STURGEON BAY, WI</td>
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<td>196687 DOOR COUNTY HIGHWAY DEPARTMENT</td>
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<td>123931 DULUTH AVENUE WELL #8</td>
<td>236 SOUTH DULUTH AVENUE STURGEON BAY, WI</td>
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</table>
17235 EXACTECH, INC. 107 EAST WALNUT STREET STURGEON BAY, WI 54235
EXACTECH, INC.

43777 FERRELLGAS, INC. 228 SOUTH NEENAH AVENUE STURGEON BAY, WI 54235
FERRELLGAS LP

109387 FINCANTIERI BAY SHIPBUILDING COMPANY 605 NORTH 3RD AVENUE STURGEON BAY, WI 54235
FINCANTIERI MARINE GROUP, LLC

90550 HATCO CORPORATION 208 E. DECK STREET STURGEON BAY, WI 54235
HATCO CORPORATION

130130 LAKES GAS CO. 235 NAUTICAL DRIVE STURGEON BAY, WI 54235
LAKES GAS CO.

112231 MARTIN PARK WELL #7 207 PENNSYLVANIA STREET STURGEON BAY, WI 54235
STURGEON BAY UTILITIES

32986 Q MART #212 CITGO 6554 GREEN BAY ROAD STURGEON BAY, WI 54235
QUALITY STATE OIL COMPANY

195350 QUALITY STATE OIL COMPANY 3030 ROSY LANE STURGEON BAY, WI 54235
QUALITY STATE OIL COMPANY

113467 QUALITY STATE OIL INC. 1255 GREEN BAY ROAD STURGEON BAY, WI 54235
QUALITY STATE OIL COMPANY

135984 QUARTERDECK MARINA 705 QUARTERDECK LANE STURGEON BAY, WI 54235
SKIPPER MARINE CORPORATION

123943 QUINCY ST. WELL #6 328 SOUTH 12TH AVENUE STURGEON BAY, WI 54235
STURGEON BAY UTILITIES

200674 Sherwin-Williams Store #3291 601 S DULUTH AVE STURGEON BAY, WI 54235
THE SHERWIN-WILLIAMS COMPANY

99635 STURGEON BAY UTILITIES-WELL #3 N 3RD AVENUE & FLORIDA STREET STURGEON BAY, WI 54235
STURGEON BAY UTILITIES

112243 TACOMA BEACH WELL #10 TACOMA BEACH RD & CLAY BANKS RD STURGEON BAY, WI 54235
STURGEON BAY UTILITIES

33526 HANSEN OIL COMPANY 1292 EAST SIDE ROAD WASHINGTON ISLAND, WI 54246
HANSEN OIL COMPANY

67814 WASHINGTON ISLAND ELECTRIC COOP 1157 MAIN ROAD WASHINGTON ISLAND, WI 54246
WASHINGTON ISLAND ELECTRIC COOP

201996 Therma-Tron-X-Inc 1155 S NEENAH AVE, STURGEON BAY WI 54235
THERMA-TRON-X

201833 Target Store 410 S ASHLAND AVE, STURGEON BAY WI 54235
TARGET
### DOOR COUNTY SPILL REPORTS

<table>
<thead>
<tr>
<th>Date</th>
<th>Location</th>
<th>Substance</th>
<th>Quantity</th>
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<tr>
<td>2/10/2017</td>
<td>605 N 3RD AVE; Sturgeon Bay</td>
<td>HYDRAULIC FLUID [HYDRAULIC OIL] (PETROLEUM)</td>
<td>1 cup</td>
</tr>
<tr>
<td>3/26/2017</td>
<td>605 N 3RD AVE; Sturgeon Bay</td>
<td>HYDRAULIC OIL</td>
<td>UNK</td>
</tr>
<tr>
<td>3/26/2017</td>
<td>605 N 3RD AVE; Sturgeon Bay</td>
<td>HYDRAULIC OIL</td>
<td>2 tbsp</td>
</tr>
<tr>
<td>3/30/2017</td>
<td>605 N 3RD AVE; Sturgeon Bay</td>
<td>PETROLEUM - UNKNOWN TYPE</td>
<td>UNK</td>
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<tr>
<td>4/1/2017</td>
<td>605 N 3RD AVE; Sturgeon Bay</td>
<td>HYDRAULIC FLUID</td>
<td>UNK</td>
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<tr>
<td>4/3/2017</td>
<td>605 N 3RD AVE; Sturgeon Bay</td>
<td>UNKNOWN OIL SHEEN</td>
<td>UNK</td>
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<td>5/12/2017</td>
<td>9462 SHORE ROAD; Fish Creek</td>
<td>GASOLINE</td>
<td>10 gal</td>
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<tr>
<td>5/26/2017</td>
<td>OFF COUNTY ROAD J; Forestville</td>
<td>MANURE</td>
<td>UNK</td>
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<td>5/26/2017</td>
<td>NORTH SIDE OF CR J; Brussels</td>
<td>MANURE</td>
<td>300 gal</td>
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<td>6/12/2017</td>
<td>8953 STATE HWY 57; Baileys Harbor</td>
<td>HYDRAULIC OIL</td>
<td>UNK</td>
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<tr>
<td>6/15/2018</td>
<td>3971 SNAKE ISLAND ROAD; Sturgeon Bay</td>
<td>UNKNOWN (Sunk Vessel)</td>
<td>UNK</td>
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<tr>
<td>6/24/2018</td>
<td>2981 STONE RD; Sturgeon Bay</td>
<td>MINERAL OIL</td>
<td>30 gal</td>
</tr>
<tr>
<td>7/25/2018</td>
<td>5421 ERDMANN DR; Sturgeon Bay</td>
<td>MINERAL OIL</td>
<td>10 gal</td>
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<tr>
<td>7/26/2018</td>
<td>CTH Y; Union</td>
<td>MANURE</td>
<td>2000 gal</td>
</tr>
<tr>
<td>8/3/2017</td>
<td>3831 CLARK LAKE ROAD; Sevastopol</td>
<td>HYDRAULIC FLUID</td>
<td>UNK</td>
</tr>
<tr>
<td>8/18/2018</td>
<td>215 QUINCY ST; Sturgeon Bay</td>
<td>DIESEL FUEL</td>
<td>UNK</td>
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<tr>
<td>8/24/2018</td>
<td>N45 08' 50&quot; W087 16' 05&quot;; Fish Creek</td>
<td>DIESEL FUEL</td>
<td>UNK</td>
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<td>9/1/2018</td>
<td>10141 COUNTY ROAD Y</td>
<td>TRANSFORMER OIL [MINERAL OIL]</td>
<td>10 gal</td>
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<tr>
<td>9/5/2018</td>
<td>605 NORTH THIRD AVE; Sturgeon Bay</td>
<td>UNKNOWN OIL</td>
<td>5 gal</td>
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<tr>
<td>9/21/2018</td>
<td>12756 N. COURT DES MORTS DR; Ellison Bay</td>
<td>MINERAL OIL</td>
<td>30 gal</td>
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<tr>
<td>10/23/2018</td>
<td>605 NORTH 3RD AVE; Sturgeon Bay</td>
<td>DIESEL FUEL</td>
<td>UNK</td>
</tr>
<tr>
<td>10/24/2018</td>
<td>HWY 57; Jacksonport</td>
<td>DIESEL FUEL</td>
<td>30 gal</td>
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<tr>
<td>10/26/2018</td>
<td>3083 ANDERSON LANE; EPHRAIM</td>
<td>SEWAGE</td>
<td>5,000 gal</td>
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<tr>
<td>11/1/2018</td>
<td>City Docks; Sturgeon Bay</td>
<td>OIL</td>
<td>UNK</td>
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<tr>
<td>1/24/2019</td>
<td>7643 HILLSIDE ROAD, EGG HARBOR, WI 54209</td>
<td>WASTEWATER</td>
<td>100 – 250 gal</td>
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<td>2/27/2019</td>
<td>2501 CANAL RD; Sturgeon Bay, WI</td>
<td>PROPANE [NATURAL GAS]</td>
<td>850 gal</td>
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<tr>
<td>3/26/2019</td>
<td>BURNS HARBOR; STURGEON BAY, WI</td>
<td>FUEL OIL</td>
<td>UNK</td>
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<td>3/27/2019</td>
<td>9176 STH 57; Baileys Harbor, WI</td>
<td>PETROLEUM</td>
<td>7 gal</td>
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<tr>
<td>3/27/2019</td>
<td>6476 STH 42 Egg Harbor, WI</td>
<td>COPPER SULFATE</td>
<td>75 lbs</td>
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<tr>
<td>3/29/2019</td>
<td>705 QUARTER DECK LANE; Sturgeon Bay WI</td>
<td>DIESEL FUEL</td>
<td>50 gal</td>
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<tr>
<td>4/8/2019</td>
<td>LYNCHS BLUFF RD AND STH 57; Brussels WI</td>
<td>PETROLEUM</td>
<td>UNK</td>
</tr>
<tr>
<td>4/16/2019</td>
<td>PRIVATE PROPERTY; Sturgeon Bay WI</td>
<td>UNKNOWN</td>
<td>UNK</td>
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<tr>
<td>5/24/2019</td>
<td>1509 DIVISION ROAD; Sturgeon Bay WI</td>
<td>HYDRAULIC FLUID</td>
<td>40 gal</td>
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<td>6/16/2019</td>
<td>212 WEST LOCUST COURT; Sturgeon Bay WI</td>
<td>Unknown</td>
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<td>6/18/2019</td>
<td>COUNTY ROAD J NEAR HWY 42; Forestville WI</td>
<td>Liquid Manure</td>
<td>UNK</td>
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<td>6/24/2019</td>
<td>1963 CTY RD C STURGEON BAY WI</td>
<td>Mineral Oil</td>
<td>20 gal</td>
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<td>6/27/219</td>
<td>OREGON ST AND 1ST AVE Sturgeon Bay WI</td>
<td>PETROLEUM</td>
<td>2 gal</td>
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<tr>
<td>8/2/2019</td>
<td>10733 N BAYSHORE DR; Sister Bay WI</td>
<td>DIESEL FUEL</td>
<td>UNK</td>
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<td>8/13/2019</td>
<td>PENINSULA PARK GOLF COURSE; EPHRAIM</td>
<td>SEPTAGE</td>
<td>50 gal</td>
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<tr>
<td>8/23/2019</td>
<td>SOUTHSIDE OF WOODS ROAD; Union</td>
<td>Liquid Manure</td>
<td>40,000 gal</td>
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</table>
Off-Site Emergency Plan Review Guide and Index

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5. Resources Available Page 4
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8. Hazard Analysis Page 5
9. Warning System Page 7
10. Accessibility Concerns Page 8
11. Special Facilities Affected Page 8
12. Population Protection Page 8
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14. Other Considerations Page 9
15. Limits of Liability Page 9
16. References Page 10
17. Distribution List Page 10
18. Attachments:
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   2) Vulnerability Zone and Transportation Route Map(s) Page 19
   3) Facility Layout and Selected Information Page 24
Agronomy Center - Off-Site Plan

1. 7460 State Highway 42-57
   Sturgeon Bay, WI 54235
   920 743-6555
   WEM ID Number: 100123

2. Facility Coordinator:    Alternate Coordinator:
   Robert Haen      Jordon Sargent
   Manager      Propane Manager
   (Work) 920-743-7304    (Work) 920-743-7304
   (24 hr.) 920-495-7304    (24 hr.) 920-495-1728
   rhaen@doorcountycoop.com jsargent@doorcountycoop.com

   Alternate:
   Brian Duquaine
   President
   (Work) 920-743-7304
   (24 hr.) 920-493-7458
   bduquaine@doorcountycoop.com

3. Chemicals on site:

   Extremely Hazardous Substances (EHS)

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name - Trade Name</th>
<th>Max Amount (Pounds)</th>
<th>Amount at Risk (Pounds)</th>
</tr>
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<tbody>
<tr>
<td>1314-84-7</td>
<td>Zinc Phosphide Pellets (Mix-Solid)</td>
<td>1,050</td>
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   Hazardous Chemicals (HC): Other chemicals

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<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
<th>Max Amount (lbs)</th>
<th>Amount at Risk (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>7783-20-2</td>
<td>Ammonium Sulfate</td>
<td>558,316</td>
<td>558,316</td>
</tr>
<tr>
<td>38641-94-0</td>
<td>Cornerstone 5 Plus (Pure Liquid)</td>
<td>26,075</td>
<td>26,075</td>
</tr>
<tr>
<td>87392-12-9</td>
<td>Dual II Magnum Herbicide (Mix-Liquid)</td>
<td>7,295</td>
<td>7,295</td>
</tr>
<tr>
<td>584-08-7</td>
<td>Potash 0-0-60 (Pure-Solid)</td>
<td>1,091,406</td>
<td>1,091,406</td>
</tr>
<tr>
<td>57-13-6</td>
<td>Urea (Pure-Solid)</td>
<td>686,158</td>
<td>686,158</td>
</tr>
<tr>
<td>74-98-6</td>
<td>Liquid Propane (Mix –Liquid-Gas)</td>
<td>298,992</td>
<td>298,992</td>
</tr>
</tbody>
</table>
Vulnerability zone is based on the EPA Technical Guidance for Hazardous Analysis as calculated by CAMEO. See Section 7 and 8 for more information.

There are also several other non EHS farm chemicals stored on site in smaller quantities.

4. Primary Emergency Responders:

Southern Door Volunteer Fire Department .......................................................... 911
Door County Sheriff’s Department ........................................................................ 911
Door County Emergency Services ........................................................................ 911

5. Resources Available:

**ON-SITE:**

Employees have general knowledge concerning agricultural chemical spill procedures. There is no trained hazmat team on site.
1 Pair – Chemical Resistant Boots
2 – Hard Hats
100 Pair – Chemical Resistant Gloves
Dozen Pair – Chemical Eye Protection
250 lbs. Oil Dry
10 – ABC Fire Extinguishers
1 – Forklift
1 – Skid Steer Loader
1 – 1,000 G.P.M. Portable Pumps

**OFF-SITE:**

WI State Regional Hazardous Material Emergency Response Team
- Activated by the local responding Fire Department through Door County Emergency Management. 1-2 hr. ETA

**TECHNICAL:**

Infotrac 800 535-5053
WI Department of Agriculture 608 266 3232
Chemtrec 800 424 9300
National Response Center 800 424 8802
WEM Duty Officer 800 943 0003
6. Emergency Reporting Requirement:

Section 304: Emergency Notification of Release.

Emergency Release Notification - SECTION 304 and s. 323.60, Wis. Stats., requires the owner or operator of a facility to immediately provide verbal notification to the appropriate governmental entities; National Response Center (NRC) at 800-424-8802, Wisconsin Emergency Management (WEM) at 800-943-0003, menu option #1, and the Local Emergency Planning Committee (LEPC) at 920-391-7430, that a release of a:

Comprehensive Environmental Response Compensation and Liability Act (CERCLA) hazardous substance (HS) or Emergency Planning and Community Right to Know Act (EPCRA) extremely hazardous substance (EHS) has occurred, which meets or exceeds the listed reportable quantity (RQ), when the release goes off-site. This is commonly referred to as the federal substance release reporting law.

NOTE: EPA has written that a release need not result in actual exposure to persons off-site to require Sec. 304 Notification; the potential for exposure off-site is sufficient.

7. GENERAL INFORMATION AND ASSUMPTIONS (Disclaimer)

The vulnerability zones set forth in this plan are based on the Environmental Protection Agency's (EPA's) Technical Guidance for Hazards Analysis. The zones (Listed in Section 8. Hazard Analysis – Initial Screening - EPA Credible Worst Case Analysis) are based on a credible worst-case scenario and identify the potential area for impact should an air-borne release of an Extremely Hazardous Substance (EHS) chemical occur. A re-evaluation scenario with more realistic parameters has also been computed. Parameters used for both scenarios have been described as part of the Hazard Analysis Summary in Section 8.

CAMEO Suite software was used in the preparation of vulnerability zones. It should be noted that CAMEO fm cannot compute zones greater than 10 miles or less than 0.1 miles. Thus, results that fall into these situations will be noted as “>10 miles” or “<0.1 miles.”

The Field Incident Commander shall determine the actual response to an incident and the affected area may vary from the planning vulnerability zone identified in this plan. Depending on wind speed and direction, the amount of material released and other pertinent factors, the ACTUAL vulnerability zone may be smaller, and in some instances larger, than the credible worst-case vulnerability zone identified herein.

The vulnerability zones determined in this plan are for general planning purposes only.

8. Hazard Analysis:

Facility Description:

The Door County Cooperative – Fertilizer Plant complex is located on STH 42/57 NE of the
intersection of Y-Inn Road in the Town of Nasewaupee. The Coop is a propane / agricultural chemical distribution and retail sale facility. The complex houses an office building with bagged storage area; bulk fertilizer storage building; storage yard and propane bulk storage tanks.

The office/store and EHS storage warehouse is of wood and block construction. There are fourteen employees assigned to the complex, however, not all are present during the business hours of 6:00 a.m. to 5:00 p.m. The business hours fluctuate seasonally. After hours all buildings are locked. There are no monitoring devices on site to detect a release of any kind. The EHS chemicals are stored in the chemical storage room as noted on diagram A.

**Seasonal Information:**

Chemical locations and amounts within the building and chemical storage amounts throughout the complex are subject to change with the agriculture seasons. Non-EHS chemical types and brands that are not listed in this plan may be present due to special orders or agriculture seasons.

**Greatest Potential for Release:**

The worst case scenario would be the BLEVE of propane storage tanks stored at the facility. The vulnerability zone would be .5 miles. There are no special facilities within a 2 mile radius of the facility.

**Special Risk Considerations:**

**SITE DATA:**
Location: STURGEON BAY, WI, WISCONSIN
Building Air Exchanges Per Hour: 1.43 (unsheltered single storied)
Time: March 1, 2018 1044 hours CST (using computer's clock)

Product name; PROPANE Alternative Fuel Mixture
Common name; Propane, Liquefied Petroleum Gas; LP Gas; HD-5 Propane; HD-10 Propane; Commercial Propane, Unordorized Propane, Odorized Propane. Alternative Fuel Mixture
Chemical name: Dimethylmethane
Relevant identified uses of the substance or mixture and uses advised against

**SAFETY DATA SHEET**

**ATMOSPHERIC DATA:** (MANUAL INPUT OF DATA)
Wind: 15 miles/hour from w at 3 meters
Ground Roughness: open country       Cloud Cover: 5 tenths
Air Temperature: 50° F              Stability Class: D
No Inversion Height               Relative Humidity: 50%

August 2019
SOURCE STRENGTH:
Direct Source: 2000 pounds Source Height: 0
Release Duration: 1 minute
Release Rate: 33.3 pounds/sec
Total Amount Released: 2,000 pounds
Note: This chemical may flash boil and/or result in two phase flow.

**Vulnerability Zone Initial Screening (EPA Credible Worst-Case Scenario):**
(CAMEO Vulnerability Zone Modeling Parameters - 3.4 mph wind, atmospheric stability factor F, rural (open) terrain, ground level continuous (10 min.-gas, 1min.-liquid) total release, physical state – gas or liquid, Level of Concern: 1/10\(^{th}\) IDLH)

**Vulnerability Zone Reevaluation Scenario:**
(CAMEO Vulnerability Zone Modeling Parameters – 11.9 mph wind, atmospheric stability factor D, urban terrain, ground level continuous (10 min.-gas, 1min.-liquid) most likely quantity released, physical state – gas or liquid, Level of Concern: 1/10\(^{th}\) IDLH)

74-98-6 **Liquid Propane** (Mix-Liquid-Gas) 298,992
UN#: 1978// NFPA: H1 F4 R0
Vulnerability Zone* = 0.5 miles

Vulnerability Zone = 0.5 miles – **Liquid Propane** (Mix-Liquid-Gas) - CAS #: 74-98-6, UN# 1978, NFPA: H1-F4-R0
Amount released –full bulk tank (see “amount at risk” in Section 3)

**Conclusions:** A colorless gas with a faint petroleum-like odor. It is shipped as a liquefied gas under its vapor pressure. For transportation it may be stanched. Contact with the unconfined liquid can cause frostbite by evaporative cooling. Easily ignited. The vapors are heavier than air and a flame can flash back to the source of leak very easily. The leak may be either a liquid or vapor leak. The vapors can asphyxiate by the displacement of air. Under prolonged exposure to fire or heat the containers may rupture violently and rocket.

9. **Warning System:**

**On-site:**
The facility does not have any type of alarm system for a chemical release. Consequently, any notification of a chemical release will probably come as a result of an actual release and not a false alarm. The facility relies on verbal, and telephone on site emergency notification.

**Off-site:**
The warning system will be operated in accordance with the County Emergency Response Plan. Other warning systems that may be employed include the use of law enforcement
vehicles using public address systems and door-to-door contact of residents by emergency responders.

10. **Accessibility Concerns:** None

11. **Special Facilities Affected:**

    None

12. **Population Protection:**

    The determination to Shelter In-Place or Evacuate would be made by the Incident Commander, as appropriate.

    The lead-time for a hazardous material incident could be from 0-30 minutes. As a result, this short amount of time may not allow for a safe evacuation, especially when extremely toxic chemical fumes are involved. An evacuation under these conditions may expose the population to dangerous toxic chemicals. A decision to Shelter In-Place must then be considered.

    **Shelter In-Place:**

    Preferred areas for protective sheltering would be interior hallways, rooms without windows or exterior doors, enclosed stairways and rooms on the side of the building away from where the hazard is approaching.

    Protective measures may include any or all of the following:

    - closing and locking all doors and windows
    - sealing cracks around doors and windows with duct tape or wet towels
    - turning off all air circulation systems (heating, air conditioning, vent fans, fireplace, clothes dryers, etc...)

    **Evacuation:**

    If evacuation is deemed appropriate, then experience indicates that shelter space would need to be provided for approximately 30% of the population within the initial isolation and evacuation zones. The remaining 70% can be expected to seek shelter with family and friends outside the risk area.

    Roles and responsibilities relative to evacuation and sheltering may be found in the Door County Emergency Response Plan, Emergency Support Function 1 (ESF-1) - Transportation and ESF 6 Mass Care, Housing and Human Services.

August 2019
13. Transportation Information:

Commercial carrier, chemical company carrier or vehicles operated by the Coop ship the chemicals to the facility. The main transportation routes are STH 57 and STH 42/57.

14. Other Considerations:

Fire Potential and Consequences:

The facility has a normal fire load, however, management and the FD have met and the policy of "let the chemical storage building burn" has been discussed.

Surrounding Area and Lines of Communication:

Industrial / Commercial / Residential

Environmental Issues (initial): Prevent entry into water intakes and waterways.

Other Jurisdictions affected:

None

15. Limits of Liability:

The following is a copy (combination of CAMEO, ALOHA, and MARPLOT) of the Limitation of Liability statement found in the CAMEO, Version 2.0, ALOHA Version 5.1, and MARPLOT Version 2.0 manuals. This should be considered as part of this Planner's Limitation of Liability and gives him equal coverage as provided to the United States Government.

"Limitation of Liability - The United States Government has used its best effort to deliver complete data incorporated into CAMEO and ALOHA. Nevertheless, the United States Government and the National Safety Council do not warrant accuracy or completeness, are not responsible for errors and omissions, and are not liable for any direct, indirect, or consequential damages flowing from the recipient's use of CAMEO, ALOHA, and MARPLOT.

The CAMEO, ALOHA, and MARPLOT software are being distributed "as is" and neither the United States Government nor the National Safety Council makes any warranty claims, either express or implied, with respect to the CAMEO, MARPLOT, or ALOHA software, their quality, accuracy, completeness, performance, merchantability, or fitness for any intended purpose.

Indemnification - The recipient shall indemnify and save harmless the United States and the National Safety Council and their agents and employees against any and all loss, damage, claim, or liability whatsoever, due to personal injury or death, or damage to property of others directly or indirectly due to the use by the recipient, including failure to comply with the provisions of the National Safety Council order form."
16. **References:**


17. **Distribution List:**

1) Facility  
2) Fire Department of Jurisdiction  
3) Wisconsin Emergency Management Regional Office  
4) Door County Emergency Management

18. **Attachments:**

1) Safety Data Sheets (SDS) for EHS Chemicals  
2) Vulnerability Zone and Transportation Route Map(s)  
3) Facility Layout and Selected Information
Sigma-Aldrich

SAFETY DATA SHEET

Version 4.8
Revision Date 05/01/2015
Print Date 05/01/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name: Zinc phosphide

Product Number: 04502
Brand: Sigma-Aldrich
Index-No.: 015-006-00-9

CAS-No.: 1314-84-7

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company: Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone: +1 800-325-5832
Fax: +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone #: (314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Substances and mixtures, which in contact with water, emit flammable gases (Category 1), H260
Acute toxicity, Oral (Category 2), H300
Acute toxicity, Dermal (Category 4), H312
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word: Danger

Hazard statement(s)
H260 In contact with water releases flammable gases which may ignite spontaneously.
H300 Fatal if swallowed.
H312 Harmful in contact with skin.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)
P223 Do not allow contact with water.
P231 + P232 Handle under inert gas. Protect from moisture.
P264 Wash skin thoroughly after handling.
P270  Do not eat, drink or smoke when using this product.
P273  Avoid release to the environment.
P280  Wear protective gloves/ eye protection/ face protection.
P301 + P310 + P330  IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. Rinse mouth.
P302 + P352 + P312  IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor/ physician if you feel unwell.
P335 + P334  Brush off loose particles from skin. Immerse in cool water/ wrap in wet bandages.
P363  Wash contaminated clothing before reuse.
P370 + P378  In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P391  Collect spillage.
P402 + P404  Store in a dry place. Store in a closed container.
P405  Store locked up.
P501  Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS
Contact with water liberates toxic gas., Contact with acids liberates very toxic gas.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances
Formula: P$_2$Zn$_3$
Molecular weight: 258.12 g/mol
CAS-No.: 1314-84-7
EC-No.: 215-244-5
Index-No.: 015-006-00-9

<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinc phosphide</td>
<td>Water-react. 1; Acute Tox. 2; Acute Tox. 4; Aquatic Acute 1; Aquatic Chronic 1; H260, H300, H312, H410</td>
<td>&lt;= 100 %</td>
</tr>
</tbody>
</table>

No components need to be disclosed according to the applicable regulations.
For the full text of the H-Statements mentioned in this Section, see Section 10.

4. FIRST AID MEASURES

4.1 Description of first aid measures
General advice
Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available
5. FIREFIGHTING MEASURES
5.1 Extinguishing media
   Suitable extinguishing media
   Dry powder
5.2 Special hazards arising from the substance or mixture
   Oxides of phosphorus, Zinc/zinc oxides
5.3 Advice for firefighters
   Wear self-contained breathing apparatus for firefighting if necessary.
5.4 Further information
   No data available

6. ACCIDENTAL RELEASE MEASURES
6.1 Personal precautions, protective equipment and emergency procedures
   Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.
   Evacuate personnel to safe areas. Avoid breathing dust.
   For personal protection see section 8.
6.2 Environmental precautions
   Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
6.3 Methods and materials for containment and cleaning up
   Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Do not flush with water.
   Keep in suitable, closed containers for disposal.
6.4 Reference to other sections
   For disposal see section 13.

7. HANDLING AND STORAGE
7.1 Precautions for safe handling
   Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
   Provide appropriate exhaust ventilation at places where dust is formed.
   Keep away from sources of ignition - No smoking.
   For precautions see section 2.2.
7.2 Conditions for safe storage, including any incompatibilities
   Keep container tightly closed in a dry and well-ventilated place.
   Never allow product to get in contact with water during storage. Do not store near acids.
   Keep in a dry place.
   Storage class (TRGS 510): Hazardous materials, which set free flammable gases upon contact with water
7.3 Specific end use(s)
   Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION
8.1 Control parameters
   Components with workplace control parameters
   Contains no substances with occupational exposure limit values.
8.2 Exposure controls
   Appropriate engineering controls
   Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.
Agronomy Center - Off-Site Plan

Personal protective equipment

Eye/face protection
Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove’s outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested: Dermatit® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested: Dermatit® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals. Flame retardant protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Appearance Form: powder
b) Odour No data available
c) Odour Threshold No data available
d) pH No data available
e) Melting point/freezing point No data available
f) Initial boiling point and boiling range No data available
g) Flash point Not applicable
h) Evaporation rate No data available
i) Flammability (solid, gas) No data available
j) Upper/lower No data available
flamability or explosive limits
k) Vapour pressure No data available
l) Vapour density No data available
m) Relative density No data available
n) Water solubility No data available
o) Partition coefficient: n-octanol/water No data available
p) Auto-ignition temperature No data available
q) Decomposition temperature No data available
r) Viscosity No data available
s) Explosive properties No data available
t) Oxidizing properties No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
Contact with water liberates toxic gas. Contact with acids liberates very toxic gas.

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
Reacts violently with water.

10.4 Conditions to avoid
Exposure to moisture

10.5 Incompatible materials
Strong oxidizing agents, Keep away from water., Bases, Acids

10.6 Hazardous decomposition products
Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects
Acute toxicity
LD50 Oral - Rat - 12 mg/kg
Remarks: Gastrointestinal:Other changes.
Inhalation: No data available
LD50 Dermal - Rabbit - 2,000 mg/kg
No data available
Skin corrosion/irritation
No data available
Serious eye damage/eye irritation
No data available
Respiratory or skin sensitisation
No data available
Germ cell mutagenicity
No data available

Carcinogenicity

IARC:  No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information

RTECS: ZH49000000

Headache, Dizziness, fatigue, Tremors, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Stomach - Irregularities - Based on Human Evidence

Stomach - Irregularities - Based on Human Evidence

12. ECOLOGICAL INFORMATION

12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
Agronomy Center - Off-Site Plan

14. TRANSPORT INFORMATION

DOT (US)
UN number: 1714   Class: 4.3 (6.1)   Packing group: I
Proper shipping name: Zinc phosphide
Reportable Quantity (RQ): 100 lbs

Poison Inhalation Hazard: No

IMDG
UN number: 1714   Class: 4.3 (6.1)   Packing group: I
Proper shipping name: ZINC PHOSPHIDE
Marine pollutant: yes

IATA
UN number: 1714   Class: 4.3 (6.1)   Packing group: I
Proper shipping name: Zinc phosphide
IATA Passenger: Not permitted for transport

EMS-No: F-G, S-N

15. REGULATORY INFORMATION

SARA 302 Components
The following components are subject to reporting levels established by SARA Title III, Section 302:

<table>
<thead>
<tr>
<th>CAS-No.</th>
<th>Revision Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1314-84-7</td>
<td>1993-04-24</td>
</tr>
</tbody>
</table>

SARA 313 Components
The following components are subject to reporting levels established by SARA Title III, Section 313:

<table>
<thead>
<tr>
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</thead>
<tbody>
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<td>1314-84-7</td>
<td>1993-04-24</td>
</tr>
</tbody>
</table>

Massachusetts Right To Know Components
Zinc phosphide

<table>
<thead>
<tr>
<th>CAS-No.</th>
<th>Revision Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1314-84-7</td>
<td>1993-04-24</td>
</tr>
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</table>

Pennsylvania Right To Know Components
Zinc phosphide

<table>
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</thead>
<tbody>
<tr>
<td>1314-84-7</td>
<td>1993-04-24</td>
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</tbody>
</table>

New Jersey Right To Know Components
Zinc phosphide

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>1314-84-7</td>
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</tr>
</tbody>
</table>

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.    Acute toxicity
Aquatic Acute  Acute aquatic toxicity
Aquatic Chronic  Chronic aquatic toxicity
H260    In contact with water releases flammable gases which may ignite spontaneously.
H300    Fatal if swallowed.
H312    Harmful in contact with skin.
H400    Very toxic to aquatic life.
H410    Very toxic to aquatic life with long lasting effects.
Water-react.  Substances and mixtures, which in contact with water, emit flammable gases
Agronomy Center - Off-Site Plan

**HMS Rating**
- Health hazard: 4
- Chronic Health Hazard: *
- Flammability: 4
- Physical Hazard: 2

**NFPA Rating**
- Health hazard: 3
- Fire Hazard: 0
- Reactivity Hazard: 2
- Special hazard: W
- Health hazard: 1
- Fire Hazard: 4
- Reactivity Hazard: 2
- Special hazard: W

**Further Information**
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**Preparation Information**
Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 4.8 Revision Date: 05/01/2015 Print Date: 05/01/2016
A.T. & T. Telephone Facility
13368
A.T. & T. Telephone Facility - Off-Site Plan

Off-Site Emergency Plan Review Guide and Index

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A.T. & T. Telephone Facility - Off-Site Plan

1. 111 South 3rd St.
Sturgeon Bay, WI 54235
608-695-3476
WEM ID Number: 13368

2. Facility Coordinator:    Alternate Coordinator:
    Timothy Tepp     Matthew Anderson
    Facilities Director    Facilities Coordinator
    Cell – 608-695-3476    Cell 920-433-4123
    (24 hr.) 920-421-0257 cellular    Office 920-735-3894
    tt2852@att.com

3. Chemicals on site:

   Extremely Hazardous Substances (EHS)

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name - Trade Name</th>
<th>Max Amount (Pounds)</th>
<th>Amount at Risk (Pounds)</th>
</tr>
</thead>
<tbody>
<tr>
<td>7664-93-9</td>
<td>Sulfuric Acid</td>
<td>1550</td>
<td>1550</td>
</tr>
<tr>
<td></td>
<td>UN#: 1830 // NFPA: 3-0-2-W</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Vulnerability Zone* = 0.1 miles</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>*(Based on Reevaluation Scenario see Section 8)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Vulnerability zone is based on the EPA Technical Guidance for Hazardous Analysis as calculated by CAMEO. See Section 7 for more information.

   Hazardous Chemicals (HC): Other chemicals.

<table>
<thead>
<tr>
<th>CAS#</th>
<th>Chemical</th>
<th>Max. Amount</th>
<th>Vulnerability Zone</th>
</tr>
</thead>
<tbody>
<tr>
<td>7439-92-1</td>
<td>Lead</td>
<td>14,835 lbs.</td>
<td>NA</td>
</tr>
<tr>
<td>68476-34-6</td>
<td>Diesel Fuel #2</td>
<td>14,751 lbs.</td>
<td>NA</td>
</tr>
</tbody>
</table>

4. Primary Emergency Responders:

   Sturgeon Bay Fire Department ................................................................. 911
   Emergency Services – EMS and Emergency Management ........................................ 911
   Sturgeon Bay Police Department ................................................................. 911

5. Resources Available:

   ON-SITE: Not staffed daily

   OFF-SITE:

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A.T. & T. Telephone Facility - Off-Site Plan

Sturgeon Bay Fire Department
Door County Emergency Services
WI State Regional Hazardous Material Emergency Response Team
- Activated by Door County Emergency Services. 1-2 hr. ETA

TECHNICAL:

Infotrac 800 535-5053
Chemtrec 800 424 9300
National Response Center 800 424 8802

SUPPORT AVAILABLE AT FACILITY:

Chemical Resistant Gloves  Chemical Eye Protection
Dry Chemical Fire Extinguisher  Carbon Dioxide Fire Extinguisher
First Aid Kits  40 Lbs. of Neutralizing Material

6. Emergency Reporting Requirement:

Section 304: Emergency Notification of Release.

Emergency Release Notification - SECTION 304 and s. 323.60, Wis. Stats., requires the owner or operator of a facility to immediately provide verbal notification to the appropriate governmental entities; National Response Center (NRC) at 800-424-8802, Wisconsin Emergency Management (WEM) at 800-943-0003, menu option #1, and the Local Emergency Planning Committee (LEPC) at 920-832-7101, that a release of a:

Comprehensive Environmental Response Compensation and Liability Act (CERCLA) hazardous substance (HS) or Emergency Planning and Community Right to Know Act (EPCRA) extremely hazardous substance (EHS) has occurred, which meets or exceeds the listed reportable quantity (RQ), when the release goes off-site. This is commonly referred to as the federal substance release reporting law.

NOTE: EPA has written that a release need not result in actual exposure to persons off-site to require Sec. 304 Notification; the potential for exposure off-site is sufficient.

7. GENERAL INFORMATION AND ASSUMPTIONS (Disclaimer)

The vulnerability zones set forth in this plan are based on the Environmental Protection Agency’s (EPA’s) Technical Guidance for Hazards Analysis. The zones (Listed in Section 8. Hazard Analysis – Initial Screening - EPA Credible Worst Case Analysis) are based on a credible worst-case scenario and identify the potential area for impact should an air-borne release of an Extremely Hazardous Substance (EHS) chemical occur. A re-evaluation scenario with more realistic parameters has also been computed. Parameters used for both scenarios have been described as part of the Hazard Analysis Summary in Section 8.
CAMEO Suite software was used in the preparation of vulnerability zones. It should be noted that CAMEO
fm cannot compute zones greater than 10 miles or less than 0.1 miles. Thus, results that fall into these situations will be noted as “>10 miles” or “<0.1 miles.”

The field Incident Commander shall determine the actual response to an incident and the affected area may vary from the planning vulnerability zone identified in this plan. Depending on wind speed and direction, the amount of material released and other pertinent factors, the ACTUAL vulnerability zone may be smaller, and in some instances larger, than the credible worst-case vulnerability zone identified herein.

The vulnerability zones determined in this plan are for general planning purposes only.

8. Hazard Analysis:

Facility Description:

The A.T. & T. Telephone Facility Building is located in the City of Sturgeon Bay at the Southwest corner of S. Third Ave. and Nebraska St. The building is a concrete block structure with brick veneer siding. There are no windows in the structure. Service doors are located at the front and rear of the building. The roof is made of concrete tile. The building is secured 24 hours and is not staffed. The only means of entry is via a special combination that only employees have or by way of a lock box, which the fire department can access. The building is equipped with a low voltage alarm.

The only Extremely Hazardous Substance on site is Sulfuric Acid. The Sulfuric Acid is used in 72 batteries that are stored in the facility. The batteries are used for approximately twenty years. The Sturgeon Bay Fire Department are notified prior to the batteries being changed over. The maximum quantity of pure sulfuric acid stored on site is 1550 Lbs.

Greatest Potential for Release:

A worst case scenario would involve a crack in a battery releasing approximately 85 Lbs. of pure Sulfuric Acid. This would create a vulnerability zone of less than one tenth of a mile.

There are also two diesel tanks (above ground) in the southeast corner of the building. Transportation will be by dedicated carrier on STH 57 to Business 42/57 to 3rd St. There is also a diesel fuel generator on site. The vulnerability zone was developed using the CAMEO computer program.

Special Risk Considerations:

None.
Vulnerability Zone Initial Screening (EPA Credible Worst-Case Scenario):
(CAMEO Vulnerability Zone Modeling Parameters - 3.4 mph wind, atmospheric stability factor F, rural (open) terrain, ground level continuous (10 min.-gas, 1min.-liquid) total release, physical state – gas or liquid, Level of Concern: 1/10th IDLH)

Vulnerability Zone > 0.1 miles – Sulfuric Acid - CAS #: 7664-93-9
Amount released – Battery Crack (see “amount at risk” in Section 3)

Vulnerability Zone Reevaluation Scenario:
(CAMEO Vulnerability Zone Modeling Parameters – 11.9 mph wind, atmospheric stability factor D, urban terrain, ground level continuous (10 min.-gas, 1min.-liquid) most likely quantity released, physical state – gas or liquid, Level of Concern: 1/10th IDLH)

*Estimate of Population Affected:* 200 persons.

**Conclusions:**

The facility has the potential for a small release do to the quantity of Sulfuric Acid utilized. The most likely scenario is a smaller release from a battery crack.

The lead time for a hazmat incident could be from 0 – 30 minutes. As a result, this short time may not allow for a safe evacuation, especially when extremely toxic chemical fumes are involved. An evacuation under these considerations may expose the population to dangerous toxic chemicals and the decision may be made to shelter in place. Preferred areas for protective sheltering would be interior hallways, rooms without windows or exterior doors, enclosed stairways and rooms on the side of the building away from where the hazard is approaching. Doors, windows and other potential air leaks should be sealed up to prevent toxic fumes from entering.

Experience indicates that shelter space would need to be provided for only 30% of the population within the initial isolation and evacuation zones and the remaining 7% would seek shelter with family and friends outside of the risk zone.

**9. Warning System:**

**On-site:**

There is no alarm or detection system for a Sulfuric Acid release. The facility does have an alarm system for a fire. Consequently, any notification of a chemical release will probably come as a result of an actual release and not a false alarm. The facility relies on verbal and telephone on site emergency notification.

**Off-site:**

The warning system will be operated in accordance with the County Warning Plan, which supports the ERP. Other warning systems that may be employed include the use of law enforcement vehicles using public address systems and door-to-door contact of residents by emergency responders.
10. **Accessibility Concerns:** 111 S. 3rd, Sturgeon Bay is a 2 lane road and is located in the downtown area of Sturgeon Bay. No major roadways will be affected by a release.

11. **Special Facilities Affected:** Vulnerability Zone: Sulfuric Acid = 0.1 miles

   Boys and Girls Club 55 S. 3rd Ave 920-818-1046 100 people

12. **Population Protection:**

   The determination to Shelter In-Place or Evacuate would be made by the Incident Commander, as appropriate.

   The lead-time for a hazardous material incident could be from 0-30 minutes. As a result, this short amount of time may not allow for a safe evacuation, especially when extremely toxic chemical fumes are involved. An evacuation under these conditions may expose the population to dangerous toxic chemicals. A decision to Shelter In-Place must then be considered.

   **Shelter In-Place:**

   Preferred areas for protective sheltering would be interior hallways, rooms without windows or exterior doors, enclosed stairways and rooms on the side of the building away from where the hazard is approaching.

   Protective measures may include any or all of the following:

   - closing and locking all doors and windows
   - sealing cracks around doors and windows with duct tape or wet towels
   - Turning off all air circulation systems (heating, air conditioning, vent fans, fireplace, clothes dryers, etc...)

   **Evacuation:**

   If evacuation is deemed appropriate, then experience indicates that shelter space would need to be provided for approximately 30% of the population within the initial isolation and evacuation zones. The remaining 70% can be expected to seek shelter with family and friends outside the risk area.

   *Roles and responsibilities relative to evacuation and sheltering may be found in the Door County Emergency Response Plan, Emergency Support Function 1 (ESF-1) - Transportation.*

13. **Transportation Information:**

   The facility primarily receives its supply of chemicals from Green Bay, WI, and South of Green Bay. Deliveries would come via Highway 42/57 from the south.
14. **Other Considerations:**

*Fire Potential and Consequences:*

The facility has a minimal fire load, however, management and the FD have met and the policy of "let the chemical storage building burn" has been discussed.

*Surrounding Area and Lines of Communication:*

Industrial / Commercial / Residential

*Environmental Issues (initial):* Prevent entry into water intakes and waterways.

*Other Jurisdictions affected:*

A large incident involving the *Sulfuric Acid* at this location would not affect other Door County municipalities.

15. **Limits of Liability:**

The following is a copy (combination of CAMEO, ALOHA, and MARPLOT) of the Limitation of Liability statement found in the CAMEO, Version 2.0, ALOHA Version 5.1, and MARPLOT Version 2.0 manuals. This should be considered as part of this Planner's Limitation of Liability and gives him equal coverage as provided to the United States Government.

"Limitation of Liability - The United States Government has used its best effort to deliver complete data incorporated into CAMEO and ALOHA. Nevertheless, the United States Government and the National Safety Council do not warranty accuracy or completeness, are not responsible for errors and omissions, and are not liable for any direct, indirect, or consequential damages flowing from the recipient's use of CAMEO, ALOHA, and MARPLOT.

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Indemnification - The recipient shall indemnify and save harmless the United States and the National Safety Council and their agents and employees against any and all loss, damage, claim, or liability whatsoever, due to personal injury or death, or damage to property of others directly or indirectly due to the use by the recipient, including failure to comply with the provisions of the National Safety Council order form."

16. **References:**

A.T. & T. Telephone Facility - Off-Site Plan  


17. Distribution List:

1) Facility  
2) Fire Department of Jurisdiction – Sturgeon Bay Fire Department  
3) Wisconsin Emergency Management Regional Office  
4) Door County Emergency Management

18. Attachments:

1) Safety Data Sheets (SDS) for EHS Chemicals  
2) Vulnerability Zone and Transportation Route Map(s)  
3) Facility Layout and Selected Information
SAFETY DATA SHEET

1. Identification

Product Name: Sulfuric Acid (Certified ACS Plus)

Cat No.:
A300.212; A300.225LB; A300.500; A300.612GAL; A300.700LB;
A300C212; A300C212EA; A300P500; A300S212; A300S212EA;
A300S500; A300S212;

Synonyms: Hydrogen sulfate; Vitriol brown oil; Oil of vitriol

Recommended Use: Laboratory chemicals.

Uses advised against: Food, drug, pesticide or biocidal product use

Details of the supplier of the safety data sheet

Company:
Fisher Scientific
One Reagent Lane
Fair Lawn, NJ 07410
Tel. (201) 795-7100

Emergency Telephone Number
CHEMTREC®, Inside the USA: 800-424-9300
CHEMTREC®, Outside the USA: 001-703-527-3687

2. Hazard(s) Identification

Classification:
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

<table>
<thead>
<tr>
<th>Hazard Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corrosive to metals</td>
<td>Category 1</td>
</tr>
<tr>
<td>Skin Corrosion/irritation</td>
<td>Category 1 A</td>
</tr>
<tr>
<td>Serious Eye Damage/Eye Irritation</td>
<td>Category 1</td>
</tr>
<tr>
<td>Specific Target Organ Toxicity (single exposure)</td>
<td>Category 3</td>
</tr>
<tr>
<td>Target Organ - Respiratory system.</td>
<td></td>
</tr>
</tbody>
</table>

Label Elements:

Signal Word: Danger

Hazard Statements:
May be corrosive to metals
Causes severe skin burns and eye damage
May cause respiratory irritation
Precautionary Statements

Prevention
Do not breathe dust/ fumes/ spray
Wear protective gloves/ protective clothing/ eye protection / face protection
Wash face, hands and any exposed skin thoroughly after handling
Use only outdoors or in a well- ventilated area
Keep only in original container

Response
Immediately call a POISON CENTER or doctor / physician

Inhalation
IF INHALED: Remove victim to fresh air and keep at rest in position comfortable for breathing

Skin
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water / shower
Wash contaminated clothing before reuse

Eyes
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Ingestion
IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

Storage
Store locked up
Store in a well- ventilated place. Keep container tightly closed

Disposal
Dispose of contents / container to an approved waste disposal plant

Hazard not otherwise classified (HNOC)
None identified


3. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfur acid</td>
<td>7664-93-9</td>
<td>90 - 98</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>2 - 10</td>
</tr>
</tbody>
</table>

4. First-aid measures

General Advice
Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

Eye Contact
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.

Skin Contact
Wash off immediately with plenty of water for at least 15 minutes. Remove and wash contaminated clothing before re-use. Immediate medical attention is required.

Inhalation
Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth method if victim ingested or inhaled the substance. Give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required.

Ingestion
Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a
physician or Poison Control Center immediately.

Most important symptoms and effects
Causes burns by all exposure routes. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation.
Treat symptomatically

Notes to Physician

5. Fire-fighting measures

Suitable Extinguishing Media
CO₂, dry chemical, dry sand, alcohol-resistant foam.

Unsuitable Extinguishing Media
DO NOT USE WATER

Flash Point
Not applicable

Method -
No information available

Autoignition Temperature
No information available

Explosion Limits

Upper
No data available

Lower
No data available

Sensitivity to Mechanical Impact
No information available

Sensitivity to Static Discharge
No information available

Specific Hazards Arising from the Chemical
Thermal decomposition can lead to release of irritating gases and vapors. The product causes burns of eyes, skin and mucous membranes.

Hazardous Combustion Products
Sulfur oxides Hydrogen

Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

NFPA

Health 3
Flammability 0
Instability 2
Physical hazards W

6. Accidental release measures

Personal Precautions
Ensure adequate ventilation. Use personal protective equipment. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Environmental Precautions
Should not be released into the environment.

Methods for Containment and Clean-Up
Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

7. Handling and storage

Handling
Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Use only under a chemical fume hood. Do not breathe vapors or spray mist. Do not ingest.

Storage
Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from water. Corrosive area.

8. Exposure controls / personal protection

Exposure Guidelines
A.T. & T. Telephone Facility - Off-Site Plan

Sulfuric Acid (Certified ACS Plus)

<table>
<thead>
<tr>
<th>Component</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
<th>Mexico OEL (TWA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfuric acid</td>
<td>TWA: 0.2 mg/m³</td>
<td>(Vacated) TWA: 1 mg/m³</td>
<td>IDLH: 15 mg/m³</td>
<td>TWA: 1 mg/m³</td>
</tr>
</tbody>
</table>

Legend
ACGIH - American Conference of Governmental Industrial Hygienists
OSHA - Occupational Safety and Health Administration
NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

Engineering Measures
Use only under a chemical fume hood. Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protective Equipment
Eye/face Protection
Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA’s eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection
Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection
Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/NMSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures
Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State
Liquid
Appearance
Clear, Colorless to brown
Odor
Odorless
Odor Threshold
No information available

pH
0.3 (1N)

Melting Point/Range
10 °C / 50 °F

Boiling Point/Range
290 °C / 554 °F

Flash Point
Not applicable

Evaporation Rate
Slower than ether

Flammability (solid, gas)
Not applicable

Flammability or explosive limits
Upper
No data available
Lower
No data available

Vapor Pressure
< 0.001 mmHg @ 20 °C

Vapor Density
3.36 (Air = 1.0)

Specific Gravity
1.94

Solubility
Soluble in water

Partition coefficient; n-octanol/water
No data available

Autoignition Temperature
No information available

Decomposition Temperature
340°C

Viscosity
No information available

Molecular Formula
H₂SO₄

Molecular Weight
98.06

10. Stability and reactivity

Reactive Hazard
Yes

Stability
Reacts violently with water. Hygroscopic.

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A.T. & T. Telephone Facility - Off-Site Plan

Door County

Sulfuric Acid (Certified ACS Plus) Revision Date 06-Jul-2016

Conditions to Avoid
Incompatible products. Excess heat. Exposure to moist air or water.

Incompatible Materials
Water, Organic materials, Strong acids, Strong bases, Metals, Alcohols, Cyanides, Sulfides

Hazardous Decomposition Products
Sulfur oxides, Hydrogen

Hazardous Polymerization
Hazardous polymerization does not occur.

Hazardous Reactions
None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information
Oral LD50
Based on ATE data, the classification criteria are not met. ATE ~ 2000 mg/kg.

Dermal LD50
Based on ATE data, the classification criteria are not met. ATE ~ 2000 mg/kg.

Vapor LC50
Based on ATE data, the classification criteria are not met. ATE ~ 20 mg/l

Component Information

<table>
<thead>
<tr>
<th>Component</th>
<th>LD50 Oral</th>
<th>LD60 Dermal</th>
<th>LC60 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfuric acid</td>
<td>2145 mg/kg ( Rat )</td>
<td>Not listed</td>
<td>LC50 85 - 105 mg/m³ ( Rat ) 1 h</td>
</tr>
<tr>
<td>Water</td>
<td>-</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

Toxicologically Synergistic
No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation
Causes severe burns by all exposure routes

Sensitization
No information available

Carcinogenicity
The table below indicates whether each agency has listed any ingredient as a carcinogen. Exposure to strong inorganic mists containing sulfuric acid may cause cancer by inhalation.

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No</th>
<th>IARC</th>
<th>NTP</th>
<th>ACGIH</th>
<th>OSHA</th>
<th>Mexico</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfuric acid</td>
<td>7664-93-0</td>
<td>Group 1</td>
<td>Known</td>
<td>A2</td>
<td>X</td>
<td>A2</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

IARC: (International Agency for Research on Cancer)
- Group 1 - Carcinogenic to Humans
- Group 2A - Probably Carcinogenic to Humans
- Group 2B - Possibly Carcinogenic to Humans

NTP: (National Toxicity Program)
- Known - Known Carcinogen
- Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

ACGIH: (American Conference of Governmental Industrial Hygienists)
- A1 - Known Human Carcinogen
- A2 - Suspected Human Carcinogen
- A3 - Animal Carcinogen

Mexico - Occupational Exposure Limits - Carcinogens
- Mexico - Occupational Exposure Limits - Carcinogens
- A1 - Confirmed Human Carcinogen
- A2 - Suspected Human Carcinogen
- A3 - Confirmed Animal Carcinogen
- A4 - Not Classifiable as a Human Carcinogen
- A5 - Not Suspected as a Human Carcinogen

Mutagenic Effects
No information available

Reproductive Effects
No information available.

Developmental Effects
No information available.

Teratogenicity
No information available.
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Sulfuric Acid (Certified ACS Plus)  

Revision Date 06-Jul-2018

STOT - single exposure  Respiratory system
STOT - repeated exposure  None known

Aspiration hazard  No information available

Symptoms / effects, both acute and delayed  Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation.

Endocrine Disruptor Information  No information available

Other Adverse Effects  The toxicological properties have not been fully investigated

12. Ecological information

Ecotoxicity
This product contains the following substance(s) which are hazardous for the environment.

<table>
<thead>
<tr>
<th>Component</th>
<th>Freshwater Algae</th>
<th>Freshwater Fish</th>
<th>Microtox</th>
<th>Water Flea</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfuric acid</td>
<td>-</td>
<td>LC50: &gt; 400 mg/L 96th static (Brachydanio rerio)</td>
<td>-</td>
<td>EC50: 29 mg/L/24h</td>
</tr>
</tbody>
</table>

Persistence and Degradability  No information available

Bioaccumulation/Accumulation  No information available

Mobility  No information available

13. Disposal considerations

Waste Disposal Methods  Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

D.O.T.

UN-No  UN1830
Proper Shipping Name  Sulfuric acid
Hazard Class  8
Packing Group  II

TDG

UN-No  UN1830
Proper Shipping Name  SULPHURIC ACID
Hazard Class  8
Packing Group  II

IATA

UN-No  UN1830
Proper Shipping Name  SULPHURIC ACID
Hazard Class  8
Packing Group  II

IMDG/IMO

UN No  UN1830
Proper Shipping Name  SULPHURIC ACID
Hazard Class  8
Packing Group  II

15. Regulatory information

All of the components in the product are on the following Inventory lists: X = listed

International Inventories
Components

<table>
<thead>
<tr>
<th>Component</th>
<th>TSCA</th>
<th>DSL</th>
<th>NSDL</th>
<th>EINECS</th>
<th>ELINCS</th>
<th>NLP</th>
<th>PICCS</th>
<th>ENCS</th>
<th>AICS</th>
<th>IECSC</th>
<th>KECL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfuric acid</td>
<td>X</td>
<td>X</td>
<td>-</td>
<td>231-089-5</td>
<td>-</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water</td>
<td>X</td>
<td>X</td>
<td>-</td>
<td>231-791-2</td>
<td>-</td>
<td>X</td>
<td>-</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Legend:
X - Listed
E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
F - Indicates a substance that is the subject of a Section 6(f) Rule under TSCA.
N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
P - Indicates a commenced PMN substance
R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
S - Indicates a substance that is identified in a proposed or final Significant New Use Rule
T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.
XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base
Production and Site Reports (40 CFR 710.4)
Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No</th>
<th>Weight %</th>
<th>SARA 313 - Threshold Values %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfuric acid</td>
<td>7681-03-0</td>
<td>0.0 - 0.0</td>
<td>1.0</td>
</tr>
</tbody>
</table>

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act)

<table>
<thead>
<tr>
<th>Component</th>
<th>CWA - Hazardous Substances</th>
<th>CWA - Reportable Quantities</th>
<th>CWA - Toxic Pollutants</th>
<th>CWA - Priority Pollutants</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfuric acid</td>
<td>X</td>
<td>1000 lb</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Clean Air Act Not applicable

OSHA Occupational Safety and Health Administration Not applicable

CERCLA This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

<table>
<thead>
<tr>
<th>Component</th>
<th>Hazardous Substances RQs</th>
<th>CERCLA EHHS RQs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfuric acid</td>
<td>1000 lb</td>
<td>1000 lb</td>
</tr>
</tbody>
</table>

California Proposition 65 This product contains the following proposition 65 chemicals

<table>
<thead>
<tr>
<th>Component</th>
<th>California Prop. 65</th>
<th>Prop 65 NSRL</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfuric acid</td>
<td>Carcinogen</td>
<td>-</td>
<td>Carcinogen</td>
</tr>
</tbody>
</table>

U.S. State Right-to-Know Regulations

<table>
<thead>
<tr>
<th>Component</th>
<th>Massachusetts</th>
<th>New Jersey</th>
<th>Pennsylvania</th>
<th>Illinois</th>
<th>Rhode Island</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfuric acid</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Water</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

U.S. Department of Transportation

Reportable Quantity (RQ): Y
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

August 2019
U.S. Department of Homeland Security
This product does not contain any DHS chemicals.

Other International Regulations
Mexico - Grade No information available

16. Other information

Prepared By Regulatory Affairs
Thermo Fisher Scientific
Email: EMSDS.RA@thermofisher.com

Creation Date 12-Nov-2010
Revision Date 06-Jul-2018
Print Date 06-Jul-2018
Revision Summary SDS sections updated 2.

Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of SDS
ATTACHMENT 2) VULNERABILITY ZONE
ATTACHMENT 3) – TRANSPORTATION ROUTE MAP
Charter – Spectrum Communications Facility 200342

Charter Spectrum Communications Facility
3475 Bagnall Rd.
Sturgeon Bay, WI 54235

Last Update
August 2019
Off-Site Emergency Plan Review Guide and Index

1. Facility Identification  
2. Facility Coordinator / Alternate Coordinator  
3. Chemicals on Site  
4. Primary Emergency Responders  
5. Resources Available  
6. Emergency Reporting Requirement  
7. General Information and Assumptions (Disclaimer)  
8. Hazard Analysis  
9. Warning System  
10. Accessibility Concerns  
11. Special Facilities Affected  
12. Population Protection  
13. Transportation Information  
14. Other Considerations  
15. Limits of Liability  
16. References  
17. Distribution List  
18. Attachments:
   1) Safety Data Sheets (SDS) for EHS Chemicals  
   2) Vulnerability Zone and Transportation Route Map(s)  
   3) Facility Layout and Selected Information
1. 3475 Bagnall Rd.
   Sturgeon Bay, WI 54235
   608-709-1501
   WEM ID Number: 200342

2. **Facility Coordinator:** Mario Andino  
   ISP: Phone – 920-304-9445  
   Mario.andino@charter.com

   **Alternate Coordinator:** Dave Mueller  
   NE WI Director: Phone 414-688-8714  
   Dave.mueller@charter.com

3. **Chemicals on site:**

   **Extremely Hazardous Substances (EHS)**

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name - Trade Name</th>
<th>Max Amount (Pounds)</th>
<th>Amount at Risk (Pounds)</th>
</tr>
</thead>
<tbody>
<tr>
<td>7664-93-9</td>
<td>Sulfuric Acid</td>
<td>4760</td>
<td>4760</td>
</tr>
</tbody>
</table>

   **UN#: 1830 // NFPA: 3-0-2-W**

   **Vulnerability Zone* = 0.1 miles**

   *(Based on Reevaluation Scenario see Section 8)*

   Vulnerability zone is based on the EPA Technical Guidance for Hazardous Analysis as calculated by CAMEO. See Section 7 for more information.

   **Hazardous Chemicals (HC): Other chemicals.**

   None

4. **Primary Emergency Responders:**

   Jacksonport Fire Department ................................................................. 911
   Emergency Services – EMS and Emergency Management .......................... 911
   Door County Sheriff’s Department ......................................................... 911

5. **Resources Available:**

   **ON-SITE:** Not staffed daily.

   **OFF-SITE:**

   Jacksonport Fire Department
   Door County Emergency Services
   WI State Regional Hazardous Material Emergency Response Team
   - Activated by Door County Emergency Services. 1-2 hr. ETA
6. Emergency Reporting Requirement:

Section 304: Emergency Notification of Release.

Emergency Release Notification - SECTION 304 and s. 323.60, Wis. Stats., requires the owner or operator of a facility to immediately provide verbal notification to the appropriate governmental entities; National Response Center (NRC) at 800-424-8802, Wisconsin Emergency Management (WEM) at 800-943-0003, menu option #1, and the Local Emergency Planning Committee (LEPC) at 920-832-7101, that a release of a:

Comprehensive Environmental Response Compensation and Liability Act (CERCLA) hazardous substance (HS) or Emergency Planning and Community Right to Know Act (EPCRA) extremely hazardous substance (EHS) has occurred, which meets or exceeds the listed reportable quantity (RQ), when the release goes off-site. This is commonly referred to as the federal substance release reporting law.

NOTE: EPA has written that a release need not result in actual exposure to persons off-site to require Sec. 304 Notification; the potential for exposure off-site is sufficient.

7. GENERAL INFORMATION AND ASSUMPTIONS (Disclaimer)

The vulnerability zones set forth in this plan are based on the Environmental Protection Agency's (EPA's) Technical Guidance for Hazards Analysis. The zones (Listed in Section 8. Hazard Analysis – Initial Screening - EPA Credible Worst Case Analysis) are based on a credible worst-case scenario and identify the potential area for impact should an air-borne release of an Extremely Hazardous Substance (EHS) chemical occur. A re-evaluation scenario with more realistic parameters has also been computed. Parameters used for both scenarios have been described as part of the Hazard Analysis Summary in Section 8.

CAMEO Suite software was used in the preparation of vulnerability zones. It should be noted that CAMEOfrm cannot compute zones greater than 10 miles or less than 0.1 miles. Thus, results that fall into these situations will be noted as “>10 miles” or “<0.1
miles."

The field Incident Commander shall determine the actual response to an incident and the affected area may vary from the planning vulnerability zone identified in this plan. Depending on wind speed and direction, the amount of material released and other pertinent factors, the ACTUAL vulnerability zone may be smaller, and in some instances larger, than the credible worst-case vulnerability zone identified herein.

The vulnerability zones determined in this plan are for general planning purposes only.

8. Hazard Analysis:

Facility Description:

The Charter Spectrum Communications Facility Building is located in the Town of Jacksonport at 3475 Bagnall Road. The building is a concrete block structure. There are no windows in the structure. Service doors are located on the east and west sides of the building. The building is surrounded by eight foot high fence topped with razor wire. The building is secured 24 hours and is not staffed. The building is a primary hub for telecommunications. Equipment in the building uses both AC and DC power. Each power type has a separate battery system back up. The building is alarmed for fire, smoke, intruder, air monitoring and power loss. There is no Knox box at this location.

The only Extremely Hazardous Substance on site is Sulfuric Acid. The Sulfuric Acid is used in batteries that are stored in the facility. The batteries are used for approximately twenty years. The maximum quantity of pure sulfuric acid stored on site is 4760 Lbs.

Greatest Potential for Release:

A worst case scenario would involve a crack in a battery releasing approximately 85 Lbs. of pure Sulfuric Acid. This would create a vulnerability zone of less than one tenth of a mile.

There is also one 600 gallon diesel tank (above ground) on the east side of the building that supplies the generator. Transportation will be by dedicated carrier on STH 57 to Bagnall Rd. The vulnerability zone was developed using the CAMEO computer program.

Special Risk Considerations:

None.

Vulnerability Zone Initial Screening (EPA Credible Worst-Case Scenario):

(CAMEO Vulnerability Zone Modeling Parameters - 3.4 mph wind, atmospheric stability factor F, rural (open) terrain, ground level continuous (10 min.-gas, 1min.-liquid) total release, physical state – gas or liquid, Level of Concern: 1/10th IDLH)
Vulnerability Zone > 0.1 miles – Sulfuric Acid - CAS #: 7664-93-9
Amount released – Battery Crack (see “amount at risk” in Section 3)

Vulnerability Zone Reevaluation Scenario:
(CAMEO Vulnerability Zone Modeling Parameters – 11.9 mph wind, atmospheric
stability factor D, urban terrain, ground level continuous (10 min.-gas, 1min.-liquid) most
likely quantity released, physical state – gas or liquid, Level of Concern: 1/10th IDLH)

Estimate of Population Affected: 50 persons.

Conclusions:
The facility has the potential for a small release do to the quantity of Sulfuric Acid
utilized. The most likely scenario is a smaller release from a battery crack.

The lead time for a hazmat incident could be from 0 – 30 minutes. As a result, this short
time may not allow for a safe evacuation, especially when extremely toxic chemical
fumes are involved. An evacuation under these considerations may expose the
population to dangerous toxic chemicals and the decision may be made to shelter in
place. Preferred areas for protective sheltering would be interior hallways, rooms without
windows or exterior doors, enclosed stairways and rooms on the side of the building
away from where the hazard is approaching. Doors, windows and other potential air
leaks should be sealed up to prevent toxic fumes from entering.

Experience indicates that shelter space would need to be provided for only 30% of the
population within the initial isolation and evacuation zones and the remaining 7% would
seek shelter with family and friends outside of the risk zone.

9. Warning System:

On-site:
There is no alarm or detection system for a Sulfuric Acid release, however, they do have
an air monitoring system that measures oxygen levels. The facility also fire, smoke,
intruder and power loss alarms that are monitored 24/7 by the parent company.

Off-site:
The warning system will be operated in accordance with the County Warning Plan,
which supports the ERP. Other warning systems that may be employed include the use
of law enforcement vehicles using public address systems and door-to-door contact of
residents by emergency responders.

10. Accessibility Concerns: None
11. **Special Facilities Affected:** Vulnerability Zone: *Sulfuric Acid* = 0.1 miles

None

12. **Population Protection:**

The determination to Shelter In-Place or Evacuate would be made by the Incident Commander, as appropriate.

The lead-time for a hazardous material incident could be from 0-30 minutes. As a result, this short amount of time may not allow for a safe evacuation, especially when extremely toxic chemical fumes are involved. An evacuation under these conditions may expose the population to dangerous toxic chemicals. A decision to Shelter In-Place must then be considered.

**Shelter In-Place:**

Preferred areas for protective sheltering would be interior hallways, rooms without windows or exterior doors, enclosed stairways and rooms on the side of the building away from where the hazard is approaching.

Protective measures may include any or all of the following:

- closing and locking all doors and windows
- sealing cracks around doors and windows with duct tape or wet towels
- Turning off all air circulation systems (heating, air conditioning, vent fans, fireplace, clothes dryers, etc...)

**Evacuation:**

If evacuation is deemed appropriate, then experience indicates that shelter space would need to be provided for approximately 30% of the population within the initial isolation and evacuation zones. The remaining 70% can be expected to seek shelter with family and friends outside the risk area.

*Roles and responsibilities relative to evacuation and sheltering may be found in the Door County Emergency Response Plan, Emergency Support Function 1 (ESF-1) - Transportation.*

13. **Transportation Information:**

The facility primarily receives its supply of chemicals from Green Bay, WI, and South of Green Bay. Deliveries would come via Highway 57 from the south.
14. Other Considerations:

Fire Potential and Consequences:

The facility has a minimal fire load, however, management and the FD is aware that they are to avoid the application of water to the building. The FD will require full PPE during operations. The facility is equipped with a FM 200 suppression system and also has an early detection fire detection system. The facility is also equipped with an oxygen monitoring system.

Surrounding Area and Lines of Communication:

Industrial / Commercial / Residential

Environmental Issues (initial): Prevent entry into water intakes and waterways.

Other Jurisdictions affected:

A large incident involving the Sulfuric Acid at this location would not affect other Door County municipalities.

15. Limits of Liability:

The following is a copy (combination of CAMEO, ALOHA, and MARPLOT) of the Limitation of Liability statement found in the CAMEO, Version 2.0, ALOHA Version 5.1, and MARPLOT Version 2.0 manuals. This should be considered as part of this Planner's Limitation of Liability and gives him equal coverage as provided to the United States Government.

"Limitation of Liability - The United States Government has used its best effort to deliver complete data incorporated into CAMEO and ALOHA. Nevertheless, the United States Government and the National Safety Council do not warranty accuracy or completeness, are not responsible for errors and omissions, and are not liable for any direct, indirect, or consequential damages flowing from the recipient's use of CAMEO, ALOHA, and MARPLOT.

The CAMEO, ALOHA, and MARPLOT software are being distributed "as is" and neither the United States Government nor the National Safety Council makes any warranty claims, either express or implied, with respect to the CAMEO, MARPLOT, or ALOHA software, their quality, accuracy, completeness, performance, merchantability, or fitness for any intended purpose.

Indemnification - The recipient shall indemnify and save harmless the United States and the National Safety Council and their agents and employees against any and all loss, damage, claim, or liability whatsoever, due to personal injury or death, or damage to property of others directly or indirectly due to the use by the recipient, including failure to
comply with the provisions of the National Safety Council order form."

16. References:


17. Distribution List:

1) Facility  
2) Fire Department of Jurisdiction – Jacksonport Fire Department  
3) Wisconsin Emergency Management Regional Office  
4) Door County Emergency Services

18. Attachments:

1) Safety Data Sheets (SDS) for EHS Chemicals  
2) Vulnerability Zone and Transportation Route Map(s)  
3) Facility Layout and Selected Information
<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Oral</td>
<td>Median Lethal Dose (LD50): 5000 mg/kg</td>
</tr>
<tr>
<td>Acute Inhalation</td>
<td>Median Lethal Concentration (LC50): 500 mg/m³</td>
</tr>
<tr>
<td>Acute Skin Absorption</td>
<td>Median Lethal Concentration (LC50): 50 mg/m²</td>
</tr>
<tr>
<td>Acute Eye Irritation</td>
<td>Median Lethal Concentration (LC50): 5 mg/mL</td>
</tr>
</tbody>
</table>

**PPE Recommendations**
- Respiratory Protection: NIOSH-approved N95 or equivalent.
- Eye Protection: Chemical splash goggles.
- Skin Protection: Rubber gloves and boots.

**First Aid**
- In case of contact with eyes, rinse with plenty of water for at least 15 minutes.
- In case of contact with skin, remove contaminated clothing and wash with soap and water.
- In case of ingestion, do not induce vomiting. Contact a physician or poison control center.

**Disposal**
- Dispose of the waste in accordance with all applicable federal, state, and local regulations.
SAFETY DATA SHEET – 14-351

3. COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENTS (Chemical/Common Name) | CAS No. | % by Wt.
--- | --- | ---
Sulfuric Acid | 7697-37-9 | 98 - 100
Caustic Soda | 1310-73-2 | 0.1 - 0.2
Magnesium Hydroxide | 1310-73-2 | 0.1
Non-Hazardous Ingredients
Water | 7732-18-5 | 15 - 17
Calcium | 7440-70-2 | 0.05
Dean Compounds | 90A | 5 - 6

4. FIRST AID MEASURES

INHALATION: Sulfuric Acid: Remove to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Consult a physician.

Ingestion: Sulfuric Acid: Sulfuric acid is a highly irritant to skin and respiratory tract. Wash skin with soap and water.

Skin: Sulfuric Acid: Flush with large amounts of water for at least 15 minutes, remove contaminated clothing completely, including shoes. If symptoms persist, seek medical attention. Wash contaminated clothing before reuse. Discard contaminated shoes.

Lead: Wash immediately with soap and water.
MATERIAL SAFETY DATA SHEET - LR4

Section 1: Identification of the Substance or Preparation

Product Identity: "Burner, Carbon Storage, Wet, Nonflammable, Not Encapsulated".
UN/NAI: 3935 Absorbed Hydrogen Sulfide - Immediate Storage Water-Potassium-Based List-Address (K-100) Battery - Absorbent Cotton (Class 9, AC92)

Date issued: September 20, 1986
Date revised: December 7, 2012

Manufacturer/Supplier: CD Technologies, Inc.
Address: 14600 Union Street North
P.O. Box 3851
Twin Falls, ID 83301-3851
Telephone number: 208-735-9900
Fax number: 208-735-9908

Section 2: Composition/Information on Ingredients

Hazardous Component | CAS No. | Use | Amount | % by Weight
--- | --- | --- | --- | ---
Hydrogen Sulfide | 7783-06-4 | Thermocouple Film | 34.6 | 80 wt%
Carbon | 7722-29-0 | Gas | 66.5 | 18.9 wt%

Section 3: Hazard Identification

Appearance: Colorless, odorless, non-corrosive. May cause damage to the skin. Inhalation of the gas may cause eye irritation. Inhalation of the gas may cause eye irritation. Inhalation of the gas may cause eye irritation.

Health Hazards: Inhalation & Exposure

Toxicity: The compound is considered to be hazardous because it is a cumulative oxidizer. Inhalation of the gas may cause eye irritation. Inhalation of the gas may cause eye irritation. Inhalation of the gas may cause eye irritation.

Precautions: Avoid contact with skin, eyes, or clothing. Keep container tightly closed when not in use.

Stability and Reactivity: Stable under normal conditions. Avoid contact with strong acids or alkalies.

Disposal: Dispose of as hazardous waste. Follow local, state, and federal regulations.
### SECTION III CONTINUED

**Material Handling**
- Wear gloves and eye protection.
- Use appropriate respiratory protection.

**Exposure Control**
- Ventilation: Local exhaust ventilation.
- Personal Protective Equipment: Respiratory protection.
- Clean-up procedures: Use water to flush and wash thoroughly.

**OSHA Regulations**
- Respiratory Protection.
- Eye Protection.

**Hazard Communication**
- Walkways and passages are free of obstructions.

**Health Hazards**
- Inorganic oxides of nitrogen, acid gases, and ammonia.

**Flammable and Explosive Properties**
- Hydrogen (flammable gas)
- Oxygen (flammable gas)

**Precautions**
- Keep away from heat, sparks, and flame.
- Incompatible materials: Oxygen, metals, water, acids.

**Section IV: CONTAINMENT MEASURES**

**Spill Kit**
- Contains absorbent and neutralizing agents.

**Section V: ACCIDENTAL RELEASE MEASURES**

**Leak Detection**
- Use flame detectors, gas detectors, and other appropriate monitoring equipment.

**Storage**
- Store in a dry, well-ventilated area.
- Avoid overfilling and overloading.
SAFETY DATA SHEET - 14-351

**Chemical Name:** Hydrofluoric Acid

**Chemical Formula:** H₂F₂

**Physical State:** Liquid

**CAS Number:** 7664-39-3

**Synonyms:** Hydroflouric acid, Hydrofluoric, Hydrofluoric acid, Hydrofluoric

**Uses:**
- As an etchant for metals
- In the production of fluorine and other fluorides
- In the synthesis of fluorides and fluoro-compounds

**Physical Properties:**
- Colorless liquid
- Odor: Acrid
- Density: 1.19 g/cm³ at 20°C

**Boiling Point:** 19.4°C

**Melting Point:** -82°C

**Health Hazards:**
-skin, eye, and respiratory tract irritation
- corrosive to skin, causing severe burns

**Exposure Limits:**
- OSHA: 2 ppm (TWA)
- NIOSH: 1 ppm (TWA)

**Routes of Exposure:**
- Skin contact
- Inhalation
- Ingestion

**Health Effects:**
- Acute exposure can cause severe burns and can be fatal.

**Precautions for Use:**
- Use appropriate personal protective equipment.
- Avoid contact with eyes, skin, and mucous membranes.
- Ventilation required.

**Spill and leakage procedures:**
- Clean up with a material like sand, gravel, or sawdust.
- Avoid breathing dust or fumes.
- Use respiratory protection.

**Handling and Storage:**
- Store in a cool, dry place.
- Keep away from incompatible materials.

**Disposal:**
- Disposal must comply with local, state, and federal regulations.

**Personal Protective Equipment:**
- A NIOSH-approved respirator or other appropriate respiratory protective equipment should be worn when handling this chemical.

**Environmental Hazards:**
- May cause contamination of water supplies.

**Physical Hazards:**
- Incompatible with alkaline materials, strong oxidizing agents, and reactive metals.

**Acute Toxicity:**
- Skin: Corrosive
- Eyes: Corrosive
- Ingestion: Corrosive

**Fire and Explosion Properties:**
- Combustible

**Stability and Reactivity:**
- Stable under normal conditions.
- React with water, strong bases, and strong oxidizing agents.

**Other Information:**
- The material is listed as a questionable human carcinogen by IARC.

**Additional Information:**
- The material is classified as a corrosive by the DOT and the ICC.

**Disclaimer:**
- The information provided is for general reference only and should not be relied upon as a substitute for professional advice.

**Company:** Technologies, Inc.

**Location:** Door County

**Date:** 14-351

**Revision Date:**

**Emergency Telephone:**

**Additional Information:**
- The material is listed as a questionable human carcinogen by IARC.

**DOT Classification:**
- DOT 6.1

**ICC Classification:**
- ICC 14.351

**NOS Classification:**
- NOS 14.351

**NFPA Classification:**
- NFPA 704: 2-0-2

**OSHA: 2 ppm (TWA)
- NIOSH: 1 ppm (TWA)**

**DOT: 6.1
- ICC: 14.351
- NOS: 14.351
- NFPA: 704: 2-0-2
- OSHA: 2 ppm (TWA)
- NIOSH: 1 ppm (TWA)**
SAFETY DATA SHEET – 14-351

The liquid components in the event of electrolyte spills. Keep away from metallic objects that could bridge the terminals on a battery and create a dangerous short circuit.

Handling:

There is a possibility of electric shock from charging equipment and from direct contact with battery. Keep self-power in charger whenever it is in use and before detachment of any cover. No smoking or open flame should be restricted. Keep battery area cool in production. Prohibit wearing and metal metal of flames and sparks nearby. Wear face and eye protection when near batteries being charged.

6. HYGIENIC CONSIDERATIONS / PERSONAL PROTECTION

Engineering Controls (Ventilation):

Some and waste in well-ventilated area. If mechanical ventilation is used, components must be well-ventilated. Rashes, burns or burns, do not let to avoid spills. Keep certain vent caps not used. Any battery case is damaged, avoid breath contact with internal components. Wear protective clothing, eye and face protection, gloves and eye protection when filling, charging or handling batteries. Do not allow access to personnel to store or carry both the positive and negative terminals of the batteries. Charge batteries in areas with adequate ventilation. General ventilation is acceptable.

Respiratory Protection (NIOSH/OSHA approved):

When required to wear personal protection. When concentrations of sulfuric acid mist must be worn to exceed PEL, use NIOSH or OSHA approved respiratory protection.

Skin Protection:

If battery case is damaged, use nitrile or neoprene plastic-coated gloves with elbow-length gauntlet, coverall coat, boots, gloves and boots.

Eye Protection:

If battery case is damaged, use chemical, goggles or face shield.

Other Protection:

In areas where water and sulfuric acid solutions are handled in concentrations greater than 1%, emergency eyewash station and showers should be provided, with watered water supply. Chemicals in the eye, face shield recommended when adding water to electrolyte to batteries. Wash hands after handling.
SAFETY DATA SHEET - 14-351

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Point</td>
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</tr>
<tr>
<td>Vapor Pressure from Liquid, g/m²</td>
<td>0.5</td>
</tr>
<tr>
<td>Vapor Density over Liquid, g/m³</td>
<td>19</td>
</tr>
<tr>
<td>Flash Point</td>
<td>-9 to 3</td>
</tr>
<tr>
<td>Lower Explosive Limits, % by Volume</td>
<td>18%</td>
</tr>
<tr>
<td>Upper Explosive Limits, % by Volume</td>
<td>74%</td>
</tr>
<tr>
<td>Appearance and Odor</td>
<td>Manufactured product is amber transparent liquid to colorless liquid with a sweet, aromatic, slightly sweet odor. Normal lead olefins are dark brown in color with a slightly acidic odor.</td>
</tr>
</tbody>
</table>

HAZARD AND EMERGENCY TIPS

Stability: Stable under normal conditions at ambient temperature.

Conditions to Avoid: Extinguished or strongly acidic solutions of hydrogen.

Incompatibilities: Avoid contact with oxidizing agents, acids, bases, carbon dioxide, and water. Contact with strong acids may produce toxic gases.

Explosives and Hygroscopic: May absorb moisture and may become explosive hydrogen gas.

Fuel components: Avoid contact with strong acids, bases, oxidants, halogens, cyanides, perchlorates, fuel additives, and water. Avoid contact with metallic lead and bases.

Accidental Explosions: Extinguished safely. Use water to cool the fire.

Hazardous Decomposition Products: Chlorine, hydrogen fluoride, hydrochloric acid, hydrofluoric acid.

Extinguishing Media: Water, sand, dry chemical, carbon dioxide, fogging agent.

Leakage: Temperature above the freezing point makes it likely to produce small amounts of water vapor or steam contact with water, steam, or snow may produce highly acidic hydrogen gas, may generate highly acidic gas.

Hazardous Polymerization: Will not occur.

SAFETY PRECAUTIONS

Health Hazards: May cause respiratory irritation. Inhaling high concentrations of hydrogen may cause death.

Fire Fighting: Use water to cool the fire.
SAFETY DATA SHEET - 14-351

Local Chartergas. Exposure exposure can cause only some packages to be found, especially substances in an exposed environment. Inhalation, ingestion, or dermal exposure to the Chartergas. Inhalation of high concentrations may cause irritation of upper respiratory tract and lungs.

Inhalation
Acute exposure to high concentrations of Chartergas may cause irritation of the eyes, respiratory system, and central nervous system. Exposure to high concentrations may cause headache, dizziness, and nausea. Exposure to Chartergas in an enclosed area may lead to asphyxiation and require medical attention.

Eye Contact
Acute exposure to Chartergas may cause irritation and redness of the eyes. Chronic exposure to Chartergas may cause eye irritation and damage.

Effects of Overexposure - Acute
Acute exposure to Chartergas may cause irritation of the eyes, respiratory system, and central nervous system. Exposure to Chartergas in an enclosed area may cause headache, dizziness, and nausea. Exposure to high concentrations may cause unconsciousness and respiratory arrest.

Effects of Overexposure - Chronic
Chronic exposure to Chartergas may cause irritation of the eyes, respiratory system, and central nervous system. Exposure to high concentrations may cause unconsciousness and respiratory arrest.

Handling and Storage
Chartergas should be handled with care and stored in a cool, dry place. Use of personal protective equipment is recommended. Exposure to Chartergas in an enclosed area may cause unconsciousness and respiratory arrest.
SAFETY DATA SHEET – 14-351

Acute toxicity

Exposure Limits (LD50): 
Chronic exposure: 
Acute toxicity: 
Respiratory tract irritation: 

Additional Health Hazards

Fire and Explosion Hazards

2. BIOCHEMICAL INFORMATION

Environmental Risk: 

Environmental Toxins: 

Sources: 

Emergency procedures: 

Disposal:

Storage:

Label:

14-351

Charter Spectrum Communications Facility - Off-Site Plan

Door County
SAFETY DATA SHEET – 14-351

The battery are accepted from regulations if they have been tested in accordance with the vibration and general conditions tests and "spare parts" stored in Special Provisions 385.1 and 385.2.

When offered for transport, the batteries must be packaged against shock damage and securely packaged in accordance with Special Provisions 385.1 and 385.2.

If the regulations listed above are not met, then do not use. This product (14-351) is regulated as Class 8 Divective Waste Materials Commercia goods by the United States Department of Transportation (DOT) and International Dangerous Goods Regulatory Standards for packaging in the United States Board Regulations and IMDG Code.

If any of these regulations are not met, the battery must be disposed as hazardous materials.

<table>
<thead>
<tr>
<th>Proper Shipping Name</th>
<th>Number of Cals.</th>
<th>Side Effect Noted with Acid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ozone</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>IIB Discharge</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Precaution Code</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Explosive</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

E13 REGULATORY INFORMATION

UNITED STATES:

EPA/CERCLA, Resource 261, 264, 311 A 312

Lead-acid batteries in EPA/CERCLA, regulation of an "enrolled" (40 CFR 301.40, 301.42). The lead and acid soil removed from the stackable must be included when determining the hazardous waste from IRCRAH, waste regulations. This acid is lead-acid batteries in Part 303 a 313, which is a Part 303 regulation (303 a 313). The following table outlines the applicable IRCRAH, and their respective maximum for the waste acids:

<table>
<thead>
<tr>
<th>IRCRAH Section</th>
<th>Subtitle A/A2</th>
<th>Permissible</th>
</tr>
</thead>
<tbody>
<tr>
<td>303 - Emergency Planning Requirements</td>
<td>700.0</td>
<td>1000.0</td>
</tr>
<tr>
<td>304 - Emergency Response</td>
<td>700.0</td>
<td>1000.0</td>
</tr>
<tr>
<td>306 - Emergency Response</td>
<td>700.0</td>
<td>1000.0</td>
</tr>
</tbody>
</table>

The reporting threshold for the battery in 265.100 is a design point on 800 m, whatever is lower.

The lead used in lead-acid batteries does not qualify for new CERCLA, or IRCRAH, regulations. Lead is not an IRRA, and the following table contains the regulations IRCRAH, and their respective threshold for lead:

<table>
<thead>
<tr>
<th>IRCRAH Section</th>
<th>Subtitle A/A2</th>
<th>Permissible</th>
</tr>
</thead>
<tbody>
<tr>
<td>311 - Baseline</td>
<td>700.0</td>
<td>1000.0</td>
</tr>
<tr>
<td>312 - Baseline</td>
<td>700.0</td>
<td>1000.0</td>
</tr>
</tbody>
</table>

Page 2 of 20
## SAFETY DATA SHEET - L84

### 1. IDENTIFICATION

**Product Name:**

- Chemical Name: L84
- Trade Name: L84
- CAS Number: 1366-34-8
- MF: Hydroxyethyl Methacrylate
- MF/WE: 8.0% Wt.
- MF/WE Ratio: 0.8
- MF/WE Type: Binder
- MF/WE Form: Solid
- MF/WE Use: Primer

### 2. GHS REQUIREMENTS

#### Health

- Category: 4
- Reactivity: 1
- Sensitivities: 1
- Physical: 2

#### Environmental

- Acute Aquatic: 1
- Immediate Aquatic: 1

### 3. LABEL:

- **DANGER:**
  - Wear protective clothing when handling.
  - Keep away from children.
  - Do not inhale or allow contact with the skin.
  - Avoid contact with eyes.
  - Store in a cool, dry place.

### Manufacturer:

- **Chemical Name:** L84
- **Use:** Primer
- **Supplier:** Chemical Technologies, Inc.
SAFETY DATA SHEET – L84

**PRODUCT INFORMATION**

**INCIPIENT:**

**Chemical Name:** Lead and Lead Compounds

**CAS #:** 7439-92-1

**Hazard Class:**

<table>
<thead>
<tr>
<th>Hazard</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammable</td>
<td>5</td>
</tr>
</tbody>
</table>

**OTHER HAZARDS:**

- **Health Hazards:** Inhalation, Skin Contact, Ingestion
- **Reactivity Hazards:** Oxidizing Agent

**EXHIBITION:**

- **Eye:** Irritating
- **Skin:** Irritating
- **Respiratory:** Irritating
- **Other:** None

**FIRST AID MEASURES**

**Inhalation:**

- Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Consult a physician.

**Skin:**

- Remove these clothing, wash with soap and water, consult physician.

**Ingestion:**

- Drink large quantities of water. For PMAO, induce vomiting or aspiration only if breathing is difficult or unconscious. Consult a physician.

**FIRE FIGHTING MEASURES:**

**Extinguishing Media:** Water, foam, carbon dioxide

**SAFETY PRECAUTIONS:**

**Personal Protective Equipment:**

- Respiratory Protection: VAPOR NIOSH
- Eye Protection: ACRON FILM
- Glove Protection: ACRON FILM

**DISPOSAL:**

- Disposal of waste: Follow local and state regulations.

**STORAGE:**

- Store in a cool, dry place.

**REACTIVITY:**

- Stable under normal conditions.

**STABILITY:**

- Stable under normal conditions.

---

**Page 2 of 23**
SAFETY DATA SHEET - L84

1. FIRST AID MEASURES
   a. INHALATION: Remove to fresh air. If choking occurs, give artificial respiration. Do not give anything by mouth. Do not induce vomiting. Call a physician immediately.
   b. SKIN CONTACT: Remove contaminated clothing. Wash skin with soap and water. Seek medical attention if irritation persists.
   c. EYE CONTACT: Flush eyes with large amounts of water for 15 minutes. Seek medical attention.
   d. INGESTION: Do not induce vomiting. Give 1 or 2 glasses of water. Seek medical attention immediately.

2. FEEDBACK RESPIRATORY: Use self-contained breathing apparatus. Wear complete protective clothing when working with this material. Avoid breathing dusts and mists. Use a respirator with an approved filter for any air contamination of the working area.

3. FIREFIGHTING PROCEDURES: Use dry chemical, carbon dioxide, or water fog methods. Avoid contact with the material in the fire area. Do not attempt to ignite or extinguish materials which are already burning.

4. HAZARDOUS COMBUSTION PRODUCTS: May decompose and release toxic gases when exposed to very high temperatures or fire. Avoid breathing the fumes. Use water to cool all containers that are on fire.

5. ACCIDENTAL SPILLAGE HANDLING: Do not use water. Use sand or absorbent material to control spills. Avoid contact with the material on the ground. Do not allow drainage to enter sewers or waterways.


7. EXPOSURE CONTROLS: Use respiratory protection as necessary. Wear protective clothing, including gloves, boots, and eye protection.

8. STABILITY: Stable under normal conditions. Reacts with water to form toxic gases. Avoid contact with strong acids and bases.

9. DISPOSAL CONSIDERATIONS: Disposal must be in accordance with local regulations. Do not incinerate. Do not discharge into the environment.

10. TRANSPORTATION INFORMATION: UN number: 1286. Class: 1 (Expert)

11. OTHER INFORMATION: This material is hazardous and should be handled with care. Do not incinerate. Do not dispose of in sewers or drains.

12. PRECAUTIONS: Use proper ventilation when handling this material. Do not eat, drink, or smoke in the vicinity of this material.
SAFETY DATA SHEET - LS4

Carcinogenicity:
There is a possibility of moderate cancer from handling equipment and those settings of users associated.

Inhalation: Avoid breathing dust or fumes. If dust or fumes are breathed, stop using product and get fresh air.

Ingestion: Avoid getting the product into the mouth. If the product is swallowed, call a doctor immediately.

Skin Contact: Avoid contact with skin. Wash hands after handling.

Eye Contact: Avoid contact with eyes. If product gets into the eyes, wash with water immediately.

Ocular Irritants:
No information available.

Inhalation Irritants:
No information available.

Skin Irritants:
No information available.

Respiratory Irritants:
No information available.

Other Health Effects:
No information available.

Hazardous Decomposition:
No information available.

Hazardous Combustion Products:
No information available.

Exposure Limit:
No information available.

Other Information:
No information available.

Engineering Controls - Ventilation:
No specific information available.

Personal Protective Equipment:
No specific information available.

Health Hazards:
No specific information available.

First Aid:
No specific information available.

Spill or leak procedures:
No specific information available.

Precautions for safe handling:
No specific information available.

Storage:
No specific information available.

Disposal Considerations:
No specific information available.

Other:
No specific information available.

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## SAFETY DATA SHEET - L84

### PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Density</td>
<td>11.95 - 11.97 g/dm³</td>
</tr>
<tr>
<td>Melting Point</td>
<td>142°C</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>297°C</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Very soluble</td>
</tr>
<tr>
<td>Preparation Method</td>
<td>90% by weight</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>1 - 3</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Below 19°C</td>
</tr>
<tr>
<td>Lower Explosive Limit</td>
<td>4.2% (Hydrogen)</td>
</tr>
<tr>
<td>Upper Explosive Limit</td>
<td>74.3% (Hydrogen)</td>
</tr>
</tbody>
</table>

### STABILITY AND REACTIVITY

**Stability:** Stable under normal conditions of storage.

**Hazardous Decomposition Products:**

- Methane, hydrogen, carbon monoxide, sulfur dioxide, carbon disulfide, cyanides. Lighter-than-air.
- Lighter-than-air.
- Inert atmosphere.
- Inert atmosphere.

**Incompatible Materials:**

- Oxidizers, peroxides, strong acids, strong alkalies, strong oxidizing agents. Avoid contact with strong oxidizing agents.

**Health Hazards:**

- May cause respiratory irritation, coughing, difficulty breathing, and dizziness.
- May cause burns and eye irritation.

**Precautions for Safe Handling:**

- Do not breathe into the facework. Use a respirator with approved filters.
- Keep out of reach of children.

**Exposure Controls:**

- Use adequate ventilation. Use local exhaust ventilation. Use personal protective equipment appropriate for the task.

**Waste Disposal:**

- Dispose of according to local regulations.
SAFETY DATA SHEET - L64

Lead Chloride and Lead Oxide exposure can cause only when presents inhaled, swallowed or otherwise processed or exposed to the dust, vapors or fumes. The primary route of exposure may cause particles in inhaled lead and oxides.

Introduction
Lead Chloride and Lead Oxide exposure may cause severe respiratory irritation.
Lead Acute Risks: Inhalation of lead dust or fumes may cause irritation to the respiratory tract and lungs.

Reactions
Lead Acute: May cause severe irritation of mucous membranes, nose, eyes, throat, and lungs. Lead chronic: May cause irritation to the respiratory tract and lungs. This may subsequently lead to systemic toxicity and muscle weakness that can be treated by a physician.

Skins
Lead Acute: May cause severe irritation of skin, eyes, and nose. Skin Chronic: May be absorbed through the skin. 
Sensitization: Contact may cause dermatitis and skin hyperpigmentation.

Eyes
Lead Acute: May cause severe irritation.
Lead Chronic: May cause eye irritation.

Effects of Overexposure - Acute
Lead Acute: Severe skin irritation, damage to mucous membranes, irritation to the respiratory tract, and lungs. Lead chronic: Symptoms of toxicity include headache, dizziness, mechanical pain, loss of appetite, muscular pain, and weakness, and abnormalities in blood.

Effects of Overexposure - Chronic
Lead Acute: Fractures, weakness of bones, anemia, and peripheral neuropathy. Lead Chronic: Symptoms include weakness, muscular pain, and gastrointestinal abnormalities.

Precautions
Lead Acute: The International Agency for Research on Cancer (IARC) has classified “lead microparticles” as possibly carcinogenic to humans. This classification does not apply to Lead Compounds and is subject to further evaluation within the IARC. Lead Chronic:  The substance must be handled under containment at this product. Absorption of the product must be determined, any chemical may cause the generation of radicals and side effects.
SAFETY DATA SHEET - L84

Local Chemicals Listed as a 303 carcinogen, likely to cause cancer or result in reproductive harm. Portal of entry: skin. Inhalation or ingestion may result in death or serious illness.

Agency Listed by National Toxicology Program (NTP), International Agency for Research on Cancer (IARC), OSHA, and EPA as a carcinogen under specific conditions at high levels.

Medical Conditions Generally Aggravated by Exposure
Cancer is a disease that can arise from long duration and exposure to carcinogenic substances. Contact with this product may cause cancer in humans and may be hazardous to the skin, lungs, and respiratory system.

Acute Toxicity
Exposure to L84
Inhalation LC50: 275 mg/L LC50: 225 mg/L
Exposure to L84
Immediate: Acute Toxicity Under OSHA: 480 mg/L (based on liquid application)

Cost
Exposure to L84
Exposure to L84
Exposure to L84

Additional Health Data
All exposure models, including the hazards of ingesting this product, are entered into the body primarily by inhalation and ingestion. Risk-based exposure models are developed by exposure generation, control by ventilation, and occupational exposure limits. For all exposure models, inhalation and ingestion models should be used. In the event of exposure to the product, remove any contaminated clothing and shoes. Wash hands and face with soap and water. If clothing and shoes are not available to wash, wash hands and face with soap and water. If no soap and water is available, wash with alcohol-based hand sanitizer.

Toxicity: Acute toxicity: NIOSH/OSHA classified L84 as a potential cancer, but not in cancer, as possibly toxic in reproduction. Black poison for algae, water to the water source. Apply to least contact, especially skin contact.

2. TOXICITY INFORMATION
Exposure to L84 is very toxic and may cause death. The effects on the environment are unknown.

Exposure to L84 is very toxic and may cause death. The effects on the environment are unknown.
SAFETY DATA SHEET - L84

**CIT TECHNOLOGIES, INC.**

Door County

**SAFETY DATA SHEET - L84**

Environmental Husbandry: Activity Control

Activity with: 2A or L84, ethylene dichloride (52 mg/l)

Activity with: DES or L84, ethylene dichloride (52 mg/l)

Lead: All in L84 (cadmium for specific hazardous) -1 mg/l, based on lead content.

Additional Information

Note:对于ethyene dichloride content.

- Volatile organic compounds: 0% (by Volume)
- Water Reactions: 2A, DES, L84

**IV. DISPOSAL CONSIDERATIONS (UNITED STATES)**

Improper disposal will result in secondary levels of exposure to those handling, handling, and disposal of the hazards. In some instances, aquatic or terrestrial wildlife, in such cases, may be exposed to the hazards. The removal of all hazards should be managed in accordance with applicable local, state, and federal requirements. Consult local environmental agency for Hazardous Waste.

Following local, state, and federal requirements and guidelines applicable to end-of-life characteristics will be the responsibility of the user.

**V. TRANSPORTATION INFORMATION**

All Dryway Additives, when transported by air, are subject to the following:

- DOT: 33327
- UN: 1362
- Class: 3
- Primary label: Danger: Poison
- Special Hazards: No special hazards

- Frequencies: Additive
- Safe disposal: Disposal will not cause significant environmental effects.

- Storage: Additive
- Exposure limits: No significant exposure limits.

**VI. EXPOSURE LIMITS**

According to the Occupational Safety and Health Administration (OSHA), the permissible exposure limits (PELs) for this product are:

- Confined space: 10 mg/m³
- General industry: 15 mg/m³
- Agriculture: 20 mg/m³

**VII. APPLICATION**

According to the Environmental Protection Agency (EPA), the application of this product is:

- Agriculture: 10 mg/m³
- General industry: 15 mg/m³
- Confined space: 20 mg/m³

**VIII. REGULATORY INFORMATION**

No significant regulatory information is available for this product.
SAFETY DATA SHEET – L84

UNITED STATES

Section 2. Hazard Identification Information (HII)

HII information is a legal "Hazard Communication Standard" under OSHA, with a "Threshold Planning Quantity" (TPQ) of 1.0 lbs. TSCA Section 313 and TDG require it. In general, the quantity of a substance sold to general use is (99 C.F.R. 172.105). For more information contact 99 C.F.R. Part 172.

Section 3. Emergency and Personal Protection

Emergency Response (ER). The best available emergency response information for this substance is provided in an emergency plan. A list of emergency response specialists can be reviewed in the emergency plan. For more information contact 99 C.F.R. Part 172.

Section 4. Fire-fighting Measures

Fire-fighting information (21) is best available emergency response information for this substance. A list of emergency response specialists can be reviewed in an emergency plan. For more information contact 99 C.F.R. Part 172.

Section 5. Storage, Handling, and Spill Containment

Storage, handling, and spill containment information (22) is best available emergency response information for this substance. A list of emergency response specialists can be reviewed in an emergency plan. For more information contact 99 C.F.R. Part 172.

Section 6. Other Information

Other information (23) is best available emergency response information for this substance. A list of emergency response specialists can be reviewed in an emergency plan. For more information contact 99 C.F.R. Part 172.

Section 7. Coordinate Care

Coordinated care (24) is best available emergency response information for this substance. A list of emergency response specialists can be reviewed in an emergency plan. For more information contact 99 C.F.R. Part 172.

Section 8. Disposal Considerations

Disposal information (25) is best available emergency response information for this substance. A list of emergency response specialists can be reviewed in an emergency plan. For more information contact 99 C.F.R. Part 172.

Section 9. Transportation Information

Transportation information (26) is best available emergency response information for this substance. A list of emergency response specialists can be reviewed in an emergency plan. For more information contact 99 C.F.R. Part 172.

Section 10. Other Regulatory Information

Other regulatory information (27) is best available emergency response information for this substance. A list of emergency response specialists can be reviewed in an emergency plan. For more information contact 99 C.F.R. Part 172.

Section 11. Product Specification

Product specification (28) is best available emergency response information for this substance. A list of emergency response specialists can be reviewed in an emergency plan. For more information contact 99 C.F.R. Part 172.

Section 12. International Trade Information

International trade information (29) is best available emergency response information for this substance. A list of emergency response specialists can be reviewed in an emergency plan. For more information contact 99 C.F.R. Part 172.

Section 13. Certification

Certification (30) information is best available emergency response information for this substance. A list of emergency response specialists can be reviewed in an emergency plan. For more information contact 99 C.F.R. Part 172.
SAFETY DATA SHEET - L84

Health and Physical Properties:

Health Hazard Data:
- Skin Irritation
- Eye Irritation
- Inhalation Exposure

Physical Hazard Data:
- Stability
- Reactivity

Chemical and Physical Stability:
- Stability
- Reactivity

Fire and Explosion Hazard Data:
- Flammability
- Flash Point
- Explosion Hazard

Transportation Hazard Data:
- Road
- Rail
- Water

Storage Hazard Data:
- Storage Conditions
- Incompatibility

Disposal Hazard Data:
- Disposal Method

Exposure Controls:
- Personal Protection
- Engineering Controls

Other Information:
- First Aid Procedures
- Spill/Leak Procedures

Material Safety Data Sheet - Rev. Date: 12/04/10
Prepared By: W.K. Resende - Director EHS
ATTACHMENT 2) VULNERABILITY ZONE
ATTACHMENT 2) – TRANSPORTATION ROUTE MAP
Door County Emergency Services
“Hazardous Materials Planning”
916 N 14th Ave.
Sturgeon Bay, WI 54235
(920) 746-7100

Sister Bay Utilities

Sister Bay Utilities – Well #1
2279 Scandia
Sister Bay, WI 54234

Last Update
March 2018
APL
**Sister Bay Utilities - Off-Site Plan**  
Door County

Well #1 - , Sister Bay, WI 54234  
WEM ID Number: 135336

**Off-Site Emergency Plan Review Guide and Index**

1. Facility Identification  
   Page 3

2. Facility Coordinator / Alternate Coordinator  
   Page 3

3. Chemicals on Site  
   Page 3

4. Primary Emergency Responders  
   Page 4

5. Resources Available  
   Page 4

6. Emergency Reporting Requirement  
   Page 4

7. General Information and Assumptions (Disclaimer)  
   Page 5

8. Hazard Analysis  
   Page 5

9. Warning System  
   Page 7

10. Accessibility Concerns  
    Page 8

11. Special Facilities Affected  
    Page 8

12. Population Protection  
    Page 8

13. Transportation Information  
    Page 8

14. Other Considerations  
    Page 8

15. Limits of Liability  
    Page 9

16. References  
    Page 9

17. Distribution List  
    Page 10

18. Attachments:  
    1) Safety Data Sheets (SDS) for EHS Chemicals  
       Page 11
    2) Vulnerability Zone and Transportation Route Map(s)  
       Page 19
    3) Facility Layout and Selected Information  
       Page 20
1. 2279 Scandia
    Sister Bay, WI 54234
    920 854-2246
    WEM ID Number: 135336

2. Facility Coordinator:    Alternate Coordinator:
   Michael C. Schell    Dave Alberts
   Utilities Director    Operations Supervisor
   (Work) 920 854-2246    (Work) 920 854-2246
   (24 hr.) 920 421-0257 cellular    (24 hr.) 920 421-0518 cellular
   mike.schell@sisterbaywi.gov

3. Chemicals on site:

   Extremely Hazardous Substances (EHS)

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name - Trade Name</th>
<th>Max Amount</th>
<th>Amount at Risk</th>
</tr>
</thead>
<tbody>
<tr>
<td>7782-50-5</td>
<td>Chlorine (Liquefied Gas)</td>
<td>150</td>
<td>150</td>
</tr>
<tr>
<td></td>
<td>UN#: 1017 // NFPA: H4-F0-I0-S-OX</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Vulnerability Zone* = 2.2 miles</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>*(Based on Reevaluation Scenario see Section 8)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

   Vulnerability zone is based on the EPA Technical Guidance for Hazardous Analysis as calculated by CAMEO. See Section 7 for more information.
Hazardous Chemicals (HC): None

4. Primary Emergency Responders:

Sister Bay Liberty Grove Fire Department ................................................................. 911
Emergency Services – EMS and Emergency Management ................................. 911
Door County Sheriff’s Department ............................................................................ 911

5. Resources Available:

ON-SITE: Mobile absorbent kits, spill kits, PPE kits with respirators.

OFF-SITE:

Sister Bay – Liberty Grove Fire Department
Door County Emergency Services
Nor-Door First Responders
WI State Regional Hazardous Material Emergency Response Team
- Activated by Door County Emergency Services. 1-2 hr. ETA

TECHNICAL:

Infotrac 800 535-5053
WI Department of Agriculture 608 266 3232
Chemtrec 800 424 9300
National Response Center 800 424 8802

SUPPORT AVAILABLE AT FACILITY:

3 – SCBA cylinders Chemical Resistant Gloves
Chemical Resistant Boots Hardhats
Chemical Eye Protection Aprons
Dry Chemical Fire Extinguisher Carbon Dioxide Fire Extinguisher
First Aid Kits Rescue – 2 Man Lift
Portable Power Supply PH Meter
Combustible Gas Indicator Oxygen Concentration Indicator
Organic Vapor Monitor Toxic Gas Monitor

6. Emergency Reporting Requirement:

Section 304: Emergency Notification of Release.

Emergency Release Notification - SECTION 304 and s. 323.60, Wis. Stats., requires the
owner or operator of a facility to immediately provide verbal notification to the appropriate
governmental entities; National Response Center (NRC) at 800-424-8802, Wisconsin Emergency Management (WEM) at 800-943-0003, menu option #1, and the Local Emergency Planning Committee (LEPC) at 920-832-7101, that a release of a:

Comprehensive Environmental Response Compensation and Liability Act (CERCLA) hazardous substance (HS) or Emergency Planning and Community Right to Know Act (EPCRA) extremely hazardous substance (EHS) has occurred, which meets or exceeds the listed reportable quantity (RQ), when the release goes off-site. This is commonly referred to as the federal substance release reporting law.

NOTE: EPA has written that a release need not result in actual exposure to persons off-site to require Sec. 304 Notification; the potential for exposure off-site is sufficient.

7. GENERAL INFORMATION AND ASSUMPTIONS (Disclaimer)

The vulnerability zones set forth in this plan are based on the Environmental Protection Agency’s (EPA’s) Technical Guidance for Hazards Analysis. The zones (Listed in Section 8. Hazard Analysis – Initial Screening - EPA Credible Worst Case Analysis) are based on a credible worst-case scenario and identify the potential area for impact should an airborne release of an Extremely Hazardous Substance (EHS) chemical occur. A re-evaluation scenario with more realistic parameters has also been computed. Parameters used for both scenarios have been described as part of the Hazard Analysis Summary in Section 8.

CAMEO Suite software was used in the preparation of vulnerability zones. It should be noted that CAMEOfm cannot compute zones greater than 10 miles or less than 0.1 miles. Thus, results that fall into these situations will be noted as “>10 miles” or “<0.1 miles.”

The field Incident Commander shall determine the actual response to an incident and the affected area may vary from the planning vulnerability zone identified in this plan. Depending on wind speed and direction, the amount of material released and other pertinent factors, the ACTUAL vulnerability zone may be smaller, and in some instances larger, than the credible worst-case vulnerability zone identified herein.

The vulnerability zones determined in this plan are for general planning purposes only.

8. Hazard Analysis:

Facility Description:

The Sister Bay Well Site #1 is located at 2279 Scandia Road. It is a chlorine treatment station.
site for the fresh water system. The building is concrete block/brick construction.

There are no alarms in the chemical rooms. A worst case scenario would involve a valve breaking off of one cylinder during the off-loading process releasing 150 lbs. of Chlorine. This would create a vulnerability zone of 0.4 miles.

The immediate area around the plant is residential, business land. There are several commercial properties along Highway 42/57, including restaurants, gasoline station, commercial stores, condominium projects and a marina. Major transportation routes used for delivery of chemicals to this facility are Hwy 42 or Hwy 57 and the various secondary roads to the facility.

The vulnerability zone was developed using the CAMEO computer program.

**Seasonal Information:**

*Chlorine* is maintained on site year round. The *Chlorine* cylinder may be full at any time during the year.

**Greatest Potential for Release:**

The greatest potential for a release of *Chlorine* would be an accident during the change of cylinders. There is always the possibility of a release when the facility receives new product to top off the tank.

**Special Risk Considerations:**

Senior Housing Facility
Bayview Terrace North
2261 Mill Rd.
Sister Bay, WI
920-854-7288
Up to 40 residents.

**Vulnerability Zone Initial Screening (EPA Credible Worst-Case Scenario):**

(CAMEO Vulnerability Zone Modeling Parameters - 3.4 mph wind, atmospheric stability factor F, rural (open) terrain, ground level continuous (10 min.-gas, 1 min.-liquid) total release, physical state – gas or liquid, Level of Concern: 1/10th IDLH)

Vulnerability Zone > 2.2 miles – *Chlorine* - CAS #: 07664-41-7
Amount released – full bulk tank (see “amount at risk” in Section 3)

**Vulnerability Zone Reevaluation Scenario:**

(CAMEO Vulnerability Zone Modeling Parameters – 11.9 mph wind, atmospheric stability factor D, urban terrain, ground level continuous (10 min.-gas, 1 min.-liquid) most likely quantity released, physical state – gas or liquid, Level of Concern: 1/10th IDLH)
Estimate of Population Affected: 800 to a seasonal average of 8,000 persons.

Conclusions:

The facility has the potential for a small release due to the quantity of Chlorine utilized. The most likely scenario is a smaller release from a line or valve leak.

The lead time for a hazmat incident could be from 0 – 30 minutes. As a result, this short time may not allow for a safe evacuation, especially when extremely toxic chemical fumes are involved. An evacuation under these considerations may expose the population to dangerous toxic chemicals and the decision may be made to shelter in place. Preferred areas for protective sheltering would be interior hallways, rooms without windows or exterior doors, enclosed stairways and rooms on the side of the building away from where the hazard is approaching. Doors, windows and other potential air leaks should be sealed up to prevent toxic fumes from entering.

Experience indicates that shelter space would need to be provided for only 30% of the population within the initial isolation and evacuation zones and the remaining 7% would seek shelter with family and friends outside of the risk zone.

9. Warning System:

On-site:

There is no alarm or detection system for a Chlorine release. The facility does not have any type of alarm system for a chemical release, fire or burglar. Consequently, any notification of a chemical release will probably come as a result of an actual release and not a false alarm. The facility relies on verbal and telephone on site emergency notification.

Off-site:

The warning system will be operated in accordance with the County Warning Plan, which supports the ERP. Other warning systems that may be employed include the use of law enforcement vehicles using public address systems and door-to-door contact of residents by emergency responders.

10. Accessibility Concerns: Autumn Court is a 2 lane road and is the only paved access to this facility. Major roadways that may be affected would be State Hwy. 42 and State Hwy. 57.

11. Special Facilities Affected: Vulnerability Zone: Chlorine = 2.2 miles

<table>
<thead>
<tr>
<th>SPECIAL FACILITY NAME</th>
<th>ADDRESS</th>
<th>PHONE</th>
<th>POPULATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bayview Terrace North</td>
<td>2261 Mill Rd.</td>
<td>920-854-7288</td>
<td>40</td>
</tr>
</tbody>
</table>

MARCH 2018
12. Population Protection:

The determination to Shelter In-Place or Evacuate would be made by the Incident Commander, as appropriate.

The lead-time for a hazardous material incident could be from 0-30 minutes. As a result, this short amount of time may not allow for a safe evacuation, especially when extremely toxic chemical fumes are involved. An evacuation under these conditions may expose the population to dangerous toxic chemicals. A decision to Shelter In-Place must then be considered.

Shelter In-Place:

Preferred areas for protective sheltering would be interior hallways, rooms without windows or exterior doors, enclosed stairways and rooms on the side of the building away from where the hazard is approaching.

Protective measures may include any or all of the following:

- closing and locking all doors and windows
- sealing cracks around doors and windows with duct tape or wet towels
- Turning off all air circulation systems (heating, air conditioning, vent fans, fireplace, clothes dryers, etc...)

Evacuation:

If evacuation is deemed appropriate, then experience indicates that shelter space would need to be provided for approximately 30% of the population within the initial isolation and evacuation zones. The remaining 70% can be expected to seek shelter with family and friends outside the risk area.

Roles and responsibilities relative to evacuation and sheltering may be found in the Door County Emergency Response Plan, Emergency Support Function 1 (ESF-1) - Transportation.

13. Transportation Information:

The facility primarily receives its supply of chemicals from Green Bay, WI, and South of Green Bay. Deliveries would come via Highway 42/57 from the south.

14. Other Considerations:

Fire Potential and Consequences:
The facility has a minimal fire load, however, management and the FD have met and the policy of "let the chemical storage building burn" has been discussed.

**Surrounding Area and Lines of Communication:**

Industrial / Commercial / Residential

**Environmental Issues (initial):** Prevent entry into water intakes and waterways.

**Other Jurisdictions affected:**

A large incident involving the *Chlorine* would affect other Door County municipalities.

15. **Limits of Liability:**

The following is a copy (combination of CAMEO, ALOHA, and MARPLOT) of the Limitation of Liability statement found in the CAMEO, Version 2.0, ALOHA Version 5.1, and MARPLOT Version 2.0 manuals. This should be considered as part of this Planner's Limitation of Liability and gives him equal coverage as provided to the United States Government.

"Limitation of Liability - The United States Government has used its best effort to deliver complete data incorporated into CAMEO and ALOHA. Nevertheless, the United States Government and the National Safety Council do not warranty accuracy or completeness, are not responsible for errors and omissions, and are not liable for any direct, indirect, or consequential damages flowing from the recipient's use of CAMEO, ALOHA, and MARPLOT.

The CAMEO, ALOHA, and MARPLOT software are being distributed "as is" and neither the United States Government nor the National Safety Council makes any warranty claims, either express or implied, with respect to the CAMEO, MARPLOT, or ALOHA software, their quality, accuracy, completeness, performance, merchantability, or fitness for any intended purpose.

Indemnification - The recipient shall indemnify and save harmless the United States and the National Safety Council and their agents and employees against any and all loss, damage, claim, or liability whatsoever, due to personal injury or death, or damage to property of others directly or indirectly due to the use by the recipient, including failure to comply with the provisions of the National Safety Council order form."

16. **References:**

17. Distribution List:

1) Facility
2) Fire Department of Jurisdiction – Sister Bay Liberty Grove Fire Department
3) Wisconsin Emergency Management Regional Office
4) Door County Emergency Services

18. Attachments:

1) Safety Data Sheets (SDS) for EHS Chemicals
2) Vulnerability Zone and Transportation Route Map(s)
3) Facility Layout and Selected Information
ATTACHMENT 1) SAFETY DATA SHEET
4800 Chlorine - EPA Reg. No. 7870-2

- Contains gas under pressure; may explode if heated.

Precautionary Statements:
- Do not breathe dust/fume/gas/mist/vapors/spray
- IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- IF ON SKIN (or hair): Remove/cover immediately all contaminated clothing. Rinse skin with water/shower.
- Wash exposed clothing before reuse.
- Wear protective gloves/eye protection/face protection.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- IF exposed or Call a POISON CENTER or doctor/physician.
- Do not eat, drink or smoke. If sure swallowed or inhaled. If you feel unwell. Disposal of container/container to industrial/institutional plant.
- Avoid release to the environment.
- Keep away from clothing/combustible materials.
- Keep container tightly closed.
- Store in a well-ventilated place.
- Keep in cool, dry place away from moisture.
- Avoid respiratory exposure.
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- Immediately call a POISON CENTER or doctor/physician.
- Store in a well-ventilated place. Keep container tightly closed.
- Store isolated.
- Dispose of contents/container to an approved waste disposal plant.

3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Weight %</th>
<th>EC No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chlorine (elemental Cl)</td>
<td>7782-50-5</td>
<td>89.5-100</td>
<td>231-936-5</td>
</tr>
</tbody>
</table>

4. First Aid Measures:

General Advice: Immediate medical attention is required. In case of accident or overdose, seek medical advice immediately (show directions for use on safety data sheet if possible).

Eye Contact: Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Call a physician immediately.

Skin Contact: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. Immediate medical attention is required.

Inhalation: Immediate medical attention is required. Move to fresh air. If not breathing, give artificial respiration. Avoid direct contact with skin. Use barrier or give mouth-to-mouth resuscitation. Artificial respiration and/or oxygen may be necessary.

Ingestion: Do NOT induce vomiting. Call a physician or poison control center immediately.
4800 Chlorine - EPA Reg. No. 7870-2

Note to Physicians: Treat symptomatically.
Self-protection of the First Aider: Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

5. Fire-fighting Measures

Flammable Properties: Substance does not burn but will support combustion
Explosive Properties: May react explosively with combustible organic or readily oxidizable materials such as alcohols, turpentine, charcoal, organic nitrates, metal powders, hydrogen sulfide, etc.

Suitable Extinguishing Media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

Unsuitable Extinguishing Media: No information available

Protective Equipment and Precautions for Firefighters: In the event of a fire, wear full protective clothing and MSHA/NIOSH (approved or equivalent) self-contained breathing apparatus with full facepiece operated in the pressure-demand or other positive pressure mode.

6. Accidental Release Measures

Personal Precautions: Use personal protective equipment as required. Keep people away from and upward of spill/leak. Evacuate personnel to safe areas. Avoid contact with skin, eyes and inhalation of vapors.

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Prevent product entering drains. Do not flush into surface water or sanitary sewer system.

Methods for Containment: Prevent further leakage or spillage if safe to do so. Dig for later disposal; do not apply water unless directed to do so. Try to contain container so that gas leaks and not liquid. Apply emergency kit if available. Call supplier or CHEMTREC for assistance.

Methods for Cleaning Up: Cover liquid spill with sand, earth or other non-combustible absorbent material. Apply emergency kit if available. Contact supplier or CHEMTREC for assistance.

Other Information: Not applicable.

7. Handling and Storage

Advice on Safe Handling: Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Do not breathe dust. Use with local exhaust ventilation. Do not eat, drink or smoke when using this product. Use with local exhaust ventilation. Do not smoke.

Storage Conditions: Keep out of the reach of children. Keep container tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers. Protect from direct sunlight.

Incompatible Materials: Tin, Metals, Sulphides, Metal oxides.

8. Exposure Controls / Personal Protection

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>AGGIHTLV STEL, 1 ppm</th>
<th>OSHA PEL 1 ppm STEL</th>
<th>OSHA PEL 3 month Ceiling 3 month STEL</th>
<th>Ontario/TWA TWA 16 ppm STEL 1 ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chlorine (elemental CI and hypochlorite salts)</td>
<td>STEL: 1 ppm TWA: 0.5 ppm</td>
<td>1 ppm STEL</td>
<td>3 month Ceiling 3 month STEL</td>
<td>TWA: 16 ppm STEL: 1 ppm</td>
</tr>
</tbody>
</table>

Chemical Name: European Union China Japan Korea Australia Taiwan

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### Physical and Chemical Properties

#### 9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Liquid Gas</td>
</tr>
<tr>
<td>Appearance</td>
<td>No Information available</td>
</tr>
<tr>
<td>Color</td>
<td>Amber Green Yellow</td>
</tr>
<tr>
<td>pH</td>
<td>No Information available</td>
</tr>
<tr>
<td>&quot;Boil Out&quot; Point (PF)</td>
<td>No Information available</td>
</tr>
<tr>
<td>Melting Point/Frozen Point</td>
<td>No Information available</td>
</tr>
<tr>
<td>Boiling Point/Boiling Range</td>
<td>No Information available</td>
</tr>
<tr>
<td>Flash Point</td>
<td>No Information available</td>
</tr>
<tr>
<td>Evaporation Rate (BuAer)</td>
<td>No Information available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No Information available</td>
</tr>
<tr>
<td>Flammability Limits in Air</td>
<td>No Information available</td>
</tr>
<tr>
<td>Upper Flammability Limit</td>
<td>No Information available</td>
</tr>
<tr>
<td>Vapor Pressure (mm Hg)</td>
<td>No Information available</td>
</tr>
<tr>
<td>Vapor Density (Air =1)</td>
<td>No Information available</td>
</tr>
<tr>
<td>Specific Gravity (H2O=1)</td>
<td>No Information available</td>
</tr>
<tr>
<td>Specific Gravity (2nd value)</td>
<td>No Information available</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>No Information available</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Not soluble</td>
</tr>
<tr>
<td>Partition Coefficient (in dodecane)</td>
<td>No Information available</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>No Information available</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>No Information available</td>
</tr>
<tr>
<td>Kinematic Viscosity</td>
<td>No Information available</td>
</tr>
<tr>
<td>Dynamic Viscosity</td>
<td>No Information available</td>
</tr>
<tr>
<td>Oxidizing Properties</td>
<td>May react explosively with combustible organic or readily oxidizable materials such as alcohols, ketones, esters, aldehydes, aromatic amines, metal powder, hydrogen sulfide, etc.</td>
</tr>
<tr>
<td>Explosive Properties</td>
<td>No Information available</td>
</tr>
</tbody>
</table>

#### 9.2 Other Information

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Softening Point</td>
<td>No Information available</td>
</tr>
<tr>
<td>Molecular Weight</td>
<td>70.01</td>
</tr>
<tr>
<td>VOD Content[%]</td>
<td>No Information available</td>
</tr>
<tr>
<td>Density</td>
<td>1401.67 p/L at 15°C</td>
</tr>
<tr>
<td>Bulk Density</td>
<td>No Information available</td>
</tr>
<tr>
<td>% Volatiles by Volume @ 21°C (70°F)</td>
<td>103</td>
</tr>
</tbody>
</table>

#### 10. Stability and Reactivity

- **Stability**: Stable under normal conditions of use and storage
- **Conditions to Avoid**: Heat, flames and sparks. Incompatibles: Moisture

---

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4800 Chlorine - EPA Reg. No. 7870-2

Incompatible Materials: Tin, Metals, Solvents, Metal oxides

Hazardous Decomposition Products: None under normal use conditions

Possibility of Hazardous Reactions: None under normal processing

14. Toxicological Information

Product Information

Acute Toxicity: 3% of the mixture consists of ingredient(s) of unknown toxicity.

The following values are calculated based on chapter 3.1 of the GHS document

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD₅₀</th>
<th>Dermal LD₅₀</th>
<th>LC₅₀ (Vap)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chlorine (elemental CI and hypochlorite salt)</td>
<td></td>
<td></td>
<td>0.25 mg/L</td>
</tr>
</tbody>
</table>
### Sister Bay Utilities - Off-Site Plan

**Door County**

4880 Chlorine - EPA Reg. No. 7870-2

<table>
<thead>
<tr>
<th>DOT Property shipping name</th>
<th>CHLORINE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazard Class</td>
<td>2.3</td>
</tr>
<tr>
<td>Subsidiary Class</td>
<td>9</td>
</tr>
<tr>
<td>Subsidiary Class 2</td>
<td>5.1</td>
</tr>
<tr>
<td>UN No</td>
<td>UN1017</td>
</tr>
<tr>
<td>Reportable Quantity (RQ)</td>
<td>10</td>
</tr>
<tr>
<td>Marine pollutant</td>
<td>This product contains a chemical which is listed as a marine pollutant according to DOT UN1017. CHLORINE 2.3 (9, 5.1). POISON INHALATION HAZARD ZONE 8, MARINE POLLUTANT</td>
</tr>
</tbody>
</table>

**INHALATION HAZARD** 2  
**CORROSIVE** 8  
**OXIDIZER** 5.1

## 15. Regulatory Information

### International Inventories

All of the components in the product are on the following inventory lists: TSCA (United States); Canada (DSL/NDSL); Europe (EINECS/ELINCS/NI); Australia (AICS); South Korea (KECL); China (IECSC); Philippines (PICCS). This product contains a substance not listed on international inventories - it is for research and development use only.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>AICS</th>
<th>TSCA</th>
<th>DSL</th>
<th>NDSL</th>
<th>EINECS</th>
<th>ELINCS</th>
<th>ENCS</th>
<th>IECSC</th>
<th>KECL</th>
<th>PICCS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Listed</td>
<td>Listed</td>
<td>Listed</td>
<td>Listed</td>
<td>Listed</td>
<td>Listed</td>
<td>Listed</td>
<td>Listed</td>
<td>Listed</td>
<td>Listed</td>
</tr>
</tbody>
</table>

### Inventory Legend

AICS - Australian Inventory of Chemical Substances  
TSCA - United States Toxic Substances Control Act Section 8(c) Inventory  
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List  
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
ENCS - Japan Existing and New Chemical Substances  
IECSC - China Inventory of Existing Chemical Substances  
KECL - Korea Existing and Evaluated Chemical Substances  
PICCS - Philippines Inventory of Chemicals and Chemical Substances

**Restrictions - REACH TITLE VII**  
No information available

### US Federal Regulations

**CERCLA**  
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 306). There may be specific reporting requirements at the local, regional, or state level, pertaining to releases of this material.

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16 MARCH 2018
Sister Bay Utilities - Off-Site Plan

4800 Chlorine - EPA Reg. No. 7870-2

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CERCLA Hazardous Substances and the Reportable Quantity</th>
<th>SARA Extremely Hazardous Substances EPCRA RQ</th>
<th>SARA Extremely Hazardous Substances TPQ</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chlorine (elemental Cl and hypochlorite salts)</td>
<td>15 lb 4.54 kg</td>
<td>10 lb EPCRA RQ</td>
<td>10 lb TPQ</td>
</tr>
</tbody>
</table>

**SARA 313**
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>SARA 313 - Threshold Volumes %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chlorine (elemental Cl and hypochlorite salts)</td>
<td>1.0</td>
</tr>
</tbody>
</table>

**SARA 311/312 Hazard Categories**
- Acute health hazard: Yes
- Chronic health hazard: No
- Fire hazard: Yes
- Sudden release of pressure hazard: Yes
- Reactive hazard: No

**U.S. State Right-to-Know Regulations**
California Proposition 65:
This product does not contain any Proposition 65 chemicals.

**16: Other Information**

**National Fire Protection Association (NFPA) Ratings**

![NFPA Rating](image)

**NSF/ANSI 60 Certification**

![NSF Certification](image)

Maximum Use (mg/L unless otherwise indicated):

Prepared By: HSE Department
Issue Date: 05-May-2012
Revision Date: 05-Jul-2016
Revision Note: Updated sections 2, 4, 5, 6, 8

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Disclaimer:

Please be advised that it is your responsibility to inform your employees of the hazards of this substance, to advise them of what these properties mean and be sure they understand exposure information. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication.

The information presented herein, while not guaranteed, was prepared by competent technical personnel and is true and accurate to the best of our knowledge. No warranty or guaranty, express or implied, is made regarding performance, stability, or otherwise. This information is not intended to be all-inclusive as to the manner and conditions of use, handling, and storage. Other factors may require additional safety or performance considerations. While our technical personnel will be happy to respond to questions regarding safe handling and use procedures, the handling and use remains the responsibility of the consumer. No suggestions are intended as, or should not be construed as, a recommendation to infringe or any existing patents or to violate any Federal, State, or local laws.

End of Safety Data Sheet
ATTACHMENT 2) VULNERABILITY ZONE
ATTACHMENT 2) – TRANSPORTATION ROUTE MAP
Sister Bay #1 Well House + Main Lift Station
2279 Scandia Drive

Main Lift Station Location

Electrical Control Room

500 Gal. Diesel Fuel Tank Inside Open Vault

150 Kw 3 Phase Gen.

150 lb Chlorine Gas Cylinder

#1 Well
Sister Bay Utilities Well 2
135348
Sister Bay Utilities - Off-Site Plan

Off-Site Emergency Plan Review Guide and Index

1. Facility Identification Page 3
2. Facility Coordinator / Alternate Coordinator Page 3
3. Chemicals on Site Page 3
4. Primary Emergency Responders Page 3
5. Resources Available Page 3
6. Emergency Reporting Requirement Page 4
7. General Information and Assumptions (Disclaimer) Page 4
8. Hazard Analysis Page 5
9. Warning System Page 6
10. Accessibility Concerns Page 7
11. Special Facilities Affected Page 7
13. Transportation Information Page 8
14. Other Considerations Page 8
15. Limits of Liability Page 8
16. References Page 9
17. Distribution List Page 9
18. Attachments:
   1) Safety Data Sheets (SDS) for EHS Chemicals Page 10
   2) Vulnerability Zone and Transportation Route Map(s) Page 18
   3) Facility Layout and Selected Information Page 23
1. 10596 Hwy 57  
Sister Bay, WI 54234  
920 854-2246  
WEM ID Number: 135348

2. **Facility Coordinator:** Michael C. Schell  
Utilities Director  
(Work) 920 854-2246  
(24 hr.) 920 421-0257 cellular  
mike.schell@sisterbaywi.gov  

**Alternate Coordinator:** Dave Alberts  
Operations Supervisor  
(Work) 920 854-2246  
(24 hr.) 920 421-0518 cellular  
dave.alberts@sisterbaywi.gov

3. **Chemicals on site:**

**Extremely Hazardous Substances (EHS)**

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name - Trade Name</th>
<th>Max Amount (Pounds)</th>
<th>Amount at Risk (Pounds)</th>
</tr>
</thead>
<tbody>
<tr>
<td>7782-50-5</td>
<td>Chlorine (Liquefied Gas)</td>
<td>150</td>
<td>150</td>
</tr>
<tr>
<td></td>
<td>UN#: 1017 // NFPA: H4-F0-I0-S-OX</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Vulnerability Zone* = 2.2 miles</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*(Based on Reevaluation Scenario see Section 8)*

Vulnerability zone is based on the EPA Technical Guidance for Hazardous Analysis as calculated by CAMEO. See Section 7 for more information.

**Hazardous Chemicals (HC): None.**

4. **Primary Emergency Responders:**

Sister Bay Liberty Grove Fire Department ................................................................. 911
Emergency Services – EMS and Emergency Management ............................................ 911
Door County Sheriff’s Department ............................................................................. 911

5. **Resources Available:**

**ON-SITE:** Mobile absorbent kits, spill kits, PPE kits with respirators.

**OFF-SITE:** Sister Bay – Liberty Grove Fire Department  
Door County Emergency Services  
Nor-Door First Responders
WI State Regional Hazardous Material Emergency Response Team  
- Activated by Door County Emergency Services. 1-2 hr. ETA

**TECHNICAL:**

Infotrac 800 535-5053  
WI Department of Agriculture 608 266 3232  
Chemtrec 800 424 9300  
National Response Center 800 424 8802

**SUPPORT AVAILABLE AT FACILITY:**

<table>
<thead>
<tr>
<th>Item</th>
<th>Item</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 – SCBA cylinders</td>
<td>Chemical Resistant Gloves</td>
</tr>
<tr>
<td>Chemical Resistant Boots</td>
<td>Hardhats</td>
</tr>
<tr>
<td>Chemical Eye Protection</td>
<td>Aprons</td>
</tr>
<tr>
<td>Dry Chemical Fire Extinguisher</td>
<td>Carbon Dioxide Fire Extinguisher</td>
</tr>
<tr>
<td>First Aid Kits</td>
<td>Rescue – 2 Man Lift</td>
</tr>
<tr>
<td>Portable Power Supply</td>
<td>PH Meter</td>
</tr>
<tr>
<td>Combustible Gas Indicator</td>
<td>Oxygen Concentration Indicator</td>
</tr>
<tr>
<td>Organic Vapor Monitor</td>
<td>Toxic Gas Monitor</td>
</tr>
</tbody>
</table>

6. **Emergency Reporting Requirement:**

**Emergency Release Notification - SECTION 304 and s. 323.60, Wis. Stats.,** requires the owner or operator of a facility to immediately provide verbal notification to the appropriate governmental entities; National Response Center (NRC) at **800-424-8802**, Wisconsin Emergency Management (WEM) at **800-943-0003, menu option #1**, and the Local Emergency Planning Committee (LEPC) at **920-832-7101**, that a release of a:

- Comprehensive Environmental Response Compensation and Liability Act (CERCLA) hazardous substance (HS) or Emergency Planning and Community Right to Know Act (EPCRA) extremely hazardous substance (EHS) has occurred, which meets or exceeds the listed reportable quantity (RQ), when the release goes off-site. This is commonly referred to as the federal substance release reporting law.

**NOTE:** EPA has written that a release need not result in actual exposure to persons off-site to require Sec. 304 Notification; the **potential** for exposure off-site is sufficient.

7. **GENERAL INFORMATION AND ASSUMPTIONS (Disclaimer)**

The vulnerability zones set forth in this plan are based on the Environmental Protection Agency’s (EPA’s) Technical Guidance for Hazards Analysis. The zones (Listed in Section 8. Hazard Analysis – Initial Screening - EPA Credible Worst Case Analysis) are based on
a credible worst-case scenario and identify the potential area for impact should an air-
borne release of an Extremely Hazardous Substance (EHS) chemical occur. A re-
evaluation scenario with more realistic parameters has also been computed. Parameters
used for both scenarios have been described as part of the Hazard Analysis Summary in
Section 8.

CAMEO Suite software was used in the preparation of vulnerability zones. It should be
noted that CAMEO cannot compute zones greater than 10 miles or less than 0.1
miles. Thus, results that fall into these situations will be noted as “>10 miles” or “<0.1
miles.”

The field Incident Commander shall determine the actual response to an incident
and the affected area may vary from the planning vulnerability zone identified in
this plan. Depending on wind speed and direction, the amount of material released
and other pertinent factors, the ACTUAL vulnerability zone may be smaller, and in
some instances larger, than the credible worst-case vulnerability zone identified
herein.

The vulnerability zones determined in this plan are for general planning purposes
only.

8. Hazard Analysis:

Facility Description:

The Sister Bay Well Site #2 is located at 10596 Hwy. 57. It is a chlorine treatment site for
the fresh water system. The building is concrete block/brick construction.

There are no alarms in the chemical rooms. A worst case scenario would involve a valve
breaking off of one cylinder during the off-loading process releasing 150 lbs. of Chlorine.
This would create a vulnerability zone of 0.4 miles.

The immediate area around the plant is residential, business land. There are several
commercial properties along Highway 42/57, including restaurants, gasoline station,
commercial stores, condominium projects and a marina. Major transportation routes
used for delivery of chemicals to this facility are Hwy 42 or Hwy 57 and the various
secondary roads to the facility.

The vulnerability zone was developed using the CAMEO computer program.

Seasonal Information:

Chlorine is maintained on site year round. The Chlorine cylinder may be full at any time
during the year.

Greatest Potential for Release:
The greatest potential for a release of *Chlorine* would be an accident during the change of cylinders. There is always the possibility of a release when the facility receives new product to top off the tank.

**Special Risk Considerations:**

- **Senior Housing Facility**
  - Bayview Terrace North
  - 2261 Mill Rd.
  - Sister Bay, WI
  - 920-854-7288
  - Up to 40 residents.

- **Nursing Home**
  - Scandia Village
  - 10560 Applewood Rd.
  - Sister Bay, WI 54234
  - 920-854-2317
  - 180 residents.

**Vulnerability Zone Initial Screening (EPA Credible Worst-Case Scenario):**

(CAMEO Vulnerability Zone Modeling Parameters - 3.4 mph wind, atmospheric stability factor F, rural (open) terrain, ground level continuous (10 min.-gas, 1min.-liquid) total release, physical state – gas or liquid, Level of Concern: 1/10th IDLH)

Vulnerability Zone > 2.2 miles – *Chlorine* - CAS #: 07664-41-7

Amount released – full bulk tank (see “amount at risk” in Section 3)

**Vulnerability Zone Reevaluation Scenario:**

(CAMEO Vulnerability Zone Modeling Parameters – 11.9 mph wind, atmospheric stability factor D, urban terrain, ground level continuous (10 min.-gas, 1min.-liquid) most likely quantity released, physical state – gas or liquid, Level of Concern: 1/10th IDLH)

**Estimate of Population Affected:** 800 to a seasonal average of 8,000 persons.

**Conclusions:**

The facility has the potential for a small release due to the quantity of *Chlorine utilized*. The most likely scenario is a smaller release from a line or valve leak.

The lead time for a hazmat incident could be from 0 – 30 minutes. As a result, this short time may not allow for a safe evacuation, especially when extremely toxic chemical fumes are involved. An evacuation under these considerations may expose the population to dangerous toxic chemicals and the decision may be made to shelter in place. Preferred areas for protective sheltering would be interior hallways, rooms without windows or exterior doors, enclosed stairways and rooms on the side of the building away from where the hazard is approaching. Doors, windows and other potential air leaks should be sealed up to prevent toxic fumes from entering.

Experience indicates that shelter space would need to be provided for only 30% of the population within the initial isolation and evacuation zones and the remaining 7% would seek shelter with family and friends outside of the risk zone.

9. **Warning System:**
**On-site:**

There is no alarm or detection system for a Chlorine release. The facility does not have any type of alarm system for a chemical release, fire or burglar. Consequently, any notification of a chemical release will probably come as a result of an actual release and not a false alarm. The facility relies on verbal and telephone on site emergency notification.

**Off-site:**

The warning system will be operated in accordance with the County Warning Plan, which supports the ERP. Other warning systems that may be employed include the use of law enforcement vehicles using public address systems and door-to-door contact of residents by emergency responders.

10. **Accessibility Concerns:** The only access to this facility is off Hwy 57. Major roadways that may be affected would be State Hwy. 42 and State Hwy. 57.

11. **Special Facilities Affected:** Vulnerability Zone: Chlorine = 2.2 miles

<table>
<thead>
<tr>
<th>SPECIAL FACILITY NAME</th>
<th>ADDRESS</th>
<th>PHONE</th>
<th>POPULATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bayview Terrace North</td>
<td>2261 Mill Rd. Sister Bay, WI</td>
<td>920-854-7288</td>
<td>40</td>
</tr>
<tr>
<td>Scandia Village</td>
<td>10560 Applewood Rd</td>
<td>920-854-2317</td>
<td>180</td>
</tr>
</tbody>
</table>

12. **Population Protection:**

The determination to Shelter In-Place or Evacuate would be made by the Incident Commander, as appropriate.

The lead-time for a hazardous material incident could be from 0-30 minutes. As a result, this short amount of time may not allow for a safe evacuation, especially when extremely toxic chemical fumes are involved. An evacuation under these conditions may expose the population to dangerous toxic chemicals. A decision to Shelter In-Place must then be considered.

**Shelter In-Place:**

Preferred areas for protective sheltering would be interior hallways, rooms without windows or exterior doors, enclosed stairways and rooms on the side of the building away from where the hazard is approaching.

Protective measures may include any or all of the following:

- closing and locking all doors and windows
- sealing cracks around doors and windows with duct tape or wet towels
• Turning off all air circulation systems (heating, air conditioning, vent fans, fireplace, clothes dryers, etc...)

**Evacuation:**

If evacuation is deemed appropriate, then experience indicates that shelter space would need to be provided for approximately 30% of the population within the initial isolation and evacuation zones. The remaining 70% can be expected to seek shelter with family and friends outside the risk area.

*Roles and responsibilities relative to evacuation and sheltering may be found in the Door County Emergency Response Plan, Emergency Support Function 1 (ESF-1) - Transportation.*

13. **Transportation Information:**

The facility primarily receives its supply of chemicals from Green Bay, WI, and South of Green Bay. Deliveries would come via Highway 42/57 from the south.

14. **Other Considerations:**

*Fire Potential and Consequences:*

The facility has a minimal fire load, however, management and the FD have met and the policy of "let the chemical storage building burn" has been discussed.

*Surrounding Area and Lines of Communication:*

Industrial / Commercial / Residential

*Environmental Issues (initial):* Prevent entry into water intakes and waterways.

*Other Jurisdictions affected:*

A large incident involving the *Chlorine* would affect other Door County municipalities.

15. **Limits of Liability:**

The following is a copy (combination of CAMEO, ALOHA, and MARPLOT) of the Limitation of Liability statement found in the CAMEO, Version 2.0, ALOHA Version 5.1, and MARPLOT Version 2.0 manuals. This should be considered as part of this Planner's Limitation of Liability and gives him equal coverage as provided to the United States Government.

"Limitation of Liability - The United States Government has used its best effort to deliver
complete data incorporated into CAMEO and ALOHA. Nevertheless, the United States Government and the National Safety Council do not warranty accuracy or completeness, are not responsible for errors and omissions, and are not liable for any direct, indirect, or consequential damages flowing from the recipient's use of CAMEO, ALOHA, and MARPLOT.

The CAMEO, ALOHA, and MARPLOT software are being distributed "as is" and neither the United States Government nor the National Safety Council makes any warranty claims, either express or implied, with respect to the CAMEO, MARPLOT, or ALOHA software, their quality, accuracy, completeness, performance, merchantability, or fitness for any intended purpose.

Indemnification - The recipient shall indemnify and save harmless the United States and the National Safety Council and their agents and employees against any and all loss, damage, claim, or liability whatsoever, due to personal injury or death, or damage to property of others directly or indirectly due to the use by the recipient, including failure to comply with the provisions of the National Safety Council order form."

16. References:


17. Distribution List:

1) Facility
2) Fire Department of Jurisdiction – Sister Bay Liberty Grove Fire Department
3) Wisconsin Emergency Management Regional Office
4) Door County Emergency Management

18. Attachments:

1) Safety Data Sheets (SDS) for EHS Chemicals
2) Vulnerability Zone and Transportation Route Map(s)
3) Facility Layout and Selected Information
ATTACHMENT 1)

SAFETY DATA SHEET
4800 Chlorine - EPA Reg. No. 7870-2

Precautionary Statements:
- Do not breathe dust, fumes or mists - use respirator
- IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- IF ON SKIN or hair: Remove victim to safety and flush skin with soap and plenty of water.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- IF exposed or call a POISON CENTER or doctor/physician immediately.
- Wash face, hands and any exposed skin thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Call a poison control center if you feel unwell.
- Store in a cool, dry place away from clothing and combustible materials.
- Keep container tightly closed.
- Remove and wash any contaminated clothing.
- Avoid release to the environment.

3. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Hazardous Name</th>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Weight</th>
<th>EC No</th>
</tr>
</thead>
<tbody>
<tr>
<td>4800 Chlorine</td>
<td>7782-50-6</td>
<td>4-100</td>
<td>231-69-0</td>
<td></td>
</tr>
</tbody>
</table>

4. First Aid Measures

- General Advice: Immediate medical attention is required. In case of contact with eyes, wash immediately with plenty of water after initial rinseouts.
- Eye Contact: Immediately flush with plenty of water. After initial rinsing, remove任何 contact lenses and continue rinsing for at least 15 minutes. Keep eye wide open while rinsing. Call a physician immediately.
- Skin Contact: Wash off immediately with soap and plenty of water while removing any contaminated clothing and shoes. Wash contaminated clothing before reuse. Immediate medical attention is required.
- Inhalation: Immediate medical attention is required. Move to fresh air if not breathing. Give artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation.
- Ingestion: Do NOT induce vomiting. Call a physician or poison control center immediately.
### 5. Fire-fighting Measures

**Flammable Properties:**
Substance does not burn but will support combustion.

**Explosive Properties:**
May react explosively with combustible organic or readily oxidizable materials such as alcohols, turpentine, charcoal, organic refuse, metal powder, hydrogen sulfide, etc.

**Suitable Extinguishing Media:**
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media:**
No information available.

**Protective Equipment and Precautions for Firefighters:**
In the event of a fire, wear full protective clothing and MSHA/NIOSH (approved or equivalent) self-contained breathing apparatus with full facepiece operated in the pressure-demand or other positive pressure mode.

### 6. Accidental Release Measures

**Personal Precautions:**
Use personal protective equipment as required. Keep people away from area upwind of spill/leak. Evacuate personnel to safe areas. Avoid contact with skin, eyes and inhalation of vapors.

**Environmental Precautions:**
Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system.

**Methods for Containment:**
Prevent further leakage or spillage if safe to do so. Dike for later disposal. Do not apply water unless directed to do so. Try to position container so that gas leaks and liquid apply emergency kit if available. Call supplier or CHEMTREC for assistance.

**Methods for Cleaning Up:**
Cover liquid spill with sand, earth or other non-combustible absorbent material. Apply emergency kit if available. Contact supplier or CHEMTREC for assistance.

**Other Information:**
Not applicable.

### 7. Handling and Storage

**Advice on Safe Handling:**
Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Use with local exhaust ventilation. Do not smoke.

**Storage Conditions:**
Keep out of the reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers. Protect from direct sunlight.

**Incompatible Materials:**
Tin; Metals, Sulfides, Metal oxides.

### 8. Exposure Controls / Personal Protection

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACCIh TLV</th>
<th>OSHA PEL</th>
<th>CRA/TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chlorine (elemental C and hypochlorite salt)</td>
<td>STEL: 1 ppm</td>
<td>1 ppm Ceiling</td>
<td>1 ppm STEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3 mg/m³ Ceiling</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>European Union</th>
<th>China</th>
<th>Japan</th>
<th>Korea</th>
<th>Available</th>
<th>Taiwan</th>
</tr>
</thead>
</table>
### Sister Bay Utilities - Off-Site Plan

**Door County**

---

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>1 ppm Peak</th>
<th>STEL; 1 ppm</th>
<th>Celling: 0.5 ppm</th>
<th>Celling: 1 ppm</th>
<th>Celling: 1.5 ppm</th>
<th>Celling: 3 ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>4800 Chlorine</td>
<td>7870-2</td>
<td>3 mg/L</td>
<td>1 mg/L</td>
<td>0.5 mg/L</td>
<td>1.5 mg/L</td>
<td>3 mg/L</td>
<td></td>
</tr>
</tbody>
</table>

---

**Engineering Controls:** Ensure adequate ventilation, especially in confined areas.

**Personal protective equipment (PPE):**
- **Eye/Face Protection:** Tight-fitting safety goggles. Face protection shield. Avoid contact with eyes.
- **Body Protection:** Suitable protective clothing. Gloves made of plastic or rubber. Suitable protective clothing. Apron.

**General Hygiene Considerations:** When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Wash hands thoroughly after handling. Keep away from food, drink and animal feeding stuffs. Handle in accordance with good industrial hygiene and safety practice. Keep working clothes separately.

---

### 9. Physical and Chemical Properties

#### 9.1. Information on basic physical and chemical properties

**Property:**
- **Physical State:** Liquid Gas
- **Appearance:** No information available
- **Color:** Amber Green Yellow

**Values:**
- **pH:** No information available
- **"Salt Out" Point (F):** No information available
- **Melt/Freezing Point:** 
- **Boiling Point/Boiling Range:** 
- **Flash Point:** 
- **Evaporation Rate (BuAcet):** No information available
- **Flammability (solid, gas):** No information available
- **Flammability Limits in Air:** No information available
- **Upper Flammability Limit:** No information available

**Property:**
- **Vapor Pressure (mm Hg):** 5830
- **Vapor density (Air =1):** 2.6
- **Specific Gravity (H2O=1):** No information available
- **Specific Gravity (2nd value):** No information available
- **Water Solubility:** Slightly soluble
- **Partition Coefficient (n-octanol/water):** No information available
- **Autoignition Temperature:** No information available
- **Decomposition Temperature:** No information available
- **Kinematic Viscosity:** No information available
- **Dynamic Viscosity:** No information available
- **Oxidizing Properties:** No information available
- **Explosive Properties:** May react explosively with combustible organic or readily oxidizable materials such as alcohols, ketones, peroxides, organic nitrates, metal powders, hydrogen sulfide, etc

**Odor:** Pungent
**Odor Threshold:** 7

**Remarks • Method:****
- **No Information Available**
- **No Information Available**
- **No Information Available**
- **No Information Available**
- **No Information Available**
- **No Information Available**
- **No Information Available**
- **No Information Available**
- **No Information Available**
- **No Information Available**

---

#### 9.2. Other Information

**Softening Point:** No information available
**Molecular Weight:** 70.51
**VOC Content(%):** No information available
**Density:** 1.451 g/L @ 15.8°C
**Bulk Density:** No information available
**% Volatiles by Volume @ 21°C (70°F):** 100

---

### 10. Stability and Reactivity

**Stability:** Stable under normal conditions of use and storage
**Conditions to Avoid:** Heat, flames and sparks; incompatibles; moisture
4680 Chlorine - EPA Reg. No. 7870-2

Incompatible Materials: Tin, Metals, Sulfides, Metal oxides
Hazardous Decomposition Products: None under normal use conditions
Possibility of Hazardous Reactions: None under normal processing

14. Toxicological Information

Product Information
Acute Toxicity: 3% of the mixture consists of ingredient(s) of unknown toxicity.
The following values are calculated based on chapter 3.1 of the GHS document

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>LC50 (Lethal Concentration)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chlorine (elemental Cl and barytes salt)</td>
<td></td>
<td></td>
<td>0.06 mg/L (Rat) 1 h 253 ppm (Cat) 1 h</td>
</tr>
</tbody>
</table>

Chronic Toxicity:
Carcinogenicity: This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP

Target Organ Effects: Eyes, Respiratory system, Skin

12. Ecological Information

Ecotoxicity:
3% of the mixture consists of component(s) of unknown hazards to the aquatic environment

Toxic to aquatic life with long lasting effects. Very toxic to aquatic life with long lasting effects.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Toxicity to algae</th>
<th>Toxicity to fish</th>
<th>Toxicity to shrimp and other aquatic invertebrates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chlorine (elemental Cl and barytes salt)</td>
<td>0.44-96 h Chlorella marina</td>
<td>LC50 96-h Chlorella pyrenoidosa</td>
<td>3.617-48 h Daphnia magna mg/L LC50</td>
</tr>
</tbody>
</table>

Persistence and Degradability: No information available.
Bioaccumulation: No information available.
Mobility: No information available.

13. Disposal Considerations

Waste from Residues/Unused Products: Disposal should be in accordance with applicable regional, national and local laws and regulations.
Sister Bay Utilities - Off-Site Plan

Door County

4880 Chlorine - EPA Reg. No. 7870-2

DOT

Proper shipping name
CHLORINE
Hazard Class
2.3
Subsidiary Class
0
Subsidiary Class 2
5.1
UN/ID No.
UN1017
Reportable Quantity (RQ)
10
Marine pollutant
Yes
Description
This product contains a chemical which is listed as a marine pollutant according to DOT UN1017, CHLORINE 2.3 (9, 5.1), POISON INHALATION HAZARD ZONE 8, MARINE POLLUTANT

INHALATION HAZARD
2
CORROSIVE
8
OXIDIZER
5.1

15. Regulatory Information

International Inventories
All of the components in the product are on the following inventory lists: TSCA (United States), Canada (DSL/NDDSL), Europe (EINECS/EULNCS/NL), Australia (AICS), South Korea (KECL), China (IECSC), Philippines (PICCS).
This product contains a substance not listed on international inventories - it is for research and development use only.

AICS
Complete
TSCA
Complete
DSL/NDSSL
Complete
EINECS/EULNCS
Complete
ENCS
Complete
IECSC
Complete
KECL
Complete
PICCS
Complete

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>AICS</th>
<th>TSCA</th>
<th>DSL</th>
<th>NDSSL</th>
<th>EINECS</th>
<th>EULNCS</th>
<th>ENCS</th>
<th>IECSC</th>
<th>KECL</th>
<th>PICCS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Listed</td>
<td>Listed</td>
<td>Listed</td>
<td>Listed</td>
<td>Listed</td>
<td>Listed</td>
<td>Listed</td>
<td>Listed</td>
<td>Listed</td>
<td>Listed</td>
</tr>
</tbody>
</table>

Inventory Legend
AICS - Australian inventory of Chemical Substances
TSCA - United States Toxic Substances Control Act Section 8(c) Inventory
DSL/NDSSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/EULNCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances

Restrictions - REACH TITLE VII
No information available

US Federal Regulations
CERCLA
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 306). There may be specific reporting requirements at the local, regional, or state level, pertaining to releases of this material.
4850 Chlorine - EPA Reg. No. 7870-2

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CERCLA Hazardous Substances and the Reportable Quantities</th>
<th>SARA Extremely Hazardous Substances EPCRA RQ</th>
<th>SARA Extremely Hazardous Substances TPC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chlorine (elemental Cl and hypochlorite salts)</td>
<td>15 lb 4.54 kg</td>
<td>10 lb</td>
<td>1 CGT TPC</td>
</tr>
</tbody>
</table>

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>SARA 313 - Threshold Values '76</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chlorine (elemental Cl and hypochlorite salts)</td>
<td>15 lb 4.54 kg</td>
</tr>
</tbody>
</table>

SARA 311/312 Hazard Categories
- Acute health hazard: Yes
- Chronic health hazard: No
- Fire hazard: Yes
- Sudden release of pressure hazard: Yes
- Reactive hazard: No

U.S. State Right-to-Know Regulations
California Proposition 65:
This product does not contain any Proposition 65 chemicals.

16. Other Information
National Fire Protection Association (NFPA) Ratings

NFST/ANSI 60 Certification

Maximum Use (mg/L unless otherwise indicated): 300
Prepared By: HSE Department
Issue Date: 00-May-2012
Revision Date: 05-July-2016
Revision Note: Updated section(s) 2.2, 4.5, 5.6
4800 Chlorine - EPA Reg. No. 7870-2

Disclaimer:
Please be advised that it is your responsibility to inform your employees of the hazards of this substance, to advise them of what these properties mean and to be sure they understand exposure information. The information provided in the Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication.

The information presented herein, while not guaranteed, was prepared by competent technical personnel and is true and accurate to the best of our knowledge. No warranty or guaranty, express or implied, is made regarding performance, stability, or otherwise. This information is not intended to be all-inclusive as to the manner and conditions of use, handling, and storage. Other factors may require additional safety or performance considerations. While our technical personnel will be happy to respond to questions regarding safe handling and use procedures, the handling and use remains the responsibility of the consumer. No suggestions are intended as, and should not be construed as, a recommendation to infringe on any existing patents or to violate any federal, state, or local laws.

End of Safety Data Sheet

ATTACHMENT 2) VULNERABILITY ZONE
ATTACHMENT 2) – TRANSPORTATION ROUTE MAP
Sister Bay Utilities WWTP
68246
### Off-Site Emergency Plan Review Guide and Index

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1. 2124 Autumn Court  
   Sister Bay, WI 54234  
   920 854-2246  
   WEM ID Number: 006824-6

2. **Facility Coordinator:**  
   Michael C. Schell  
   Utilities Director  
   (Work) 920 854-2246  
   (24 hr.) 920 421-0257 cellular  
   mike.schell@sisterbaywi.gov  
   **Alternate Coordinator:**  
   Dave Alberts  
   Operations Supervisor  
   (Work) 920 854-2246  
   (24 hr.) 920 421-0518 cellular

3. **Chemicals on site:**

   **Extremely Hazardous Substances (EHS)**

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name - Trade Name</th>
<th>Max Amount</th>
<th>Amount at Risk</th>
</tr>
</thead>
<tbody>
<tr>
<td>7782-50-5</td>
<td>Chlorine (Liquefied Gas)</td>
<td>500</td>
<td>500</td>
</tr>
<tr>
<td></td>
<td>UN#: 1017 // NFPA: H4-F0-I0-S-OX</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Vulnerability Zone</strong> = 2.2 miles</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><em>(Based on Reevaluation Scenario see Section 8)</em></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

   Vulnerability zone is based on the EPA Technical Guidance for Hazardous Analysis as calculated by CAMEO. See Section 7 for more information.
**Hazardous Chemicals (HC):** Numerous other chemicals.

### CHEMICAL INVENTORY

<table>
<thead>
<tr>
<th>QTY</th>
<th>SIZE (Up To)</th>
<th>DESCRIPTION</th>
<th>USED FOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2.5 liter</td>
<td>Hydrochloric Acid Concentrate</td>
<td>Lab - making 10% Hydrochloric acid</td>
</tr>
<tr>
<td>1</td>
<td>3.8 liter</td>
<td>Sulfuric Acid 5N</td>
<td>Lab - Phosphorus testing</td>
</tr>
<tr>
<td>1</td>
<td>3.8 liter</td>
<td>Sodium Hydroxide</td>
<td>Lab - Phosphorus testing</td>
</tr>
<tr>
<td>3</td>
<td>50pk</td>
<td>300ml BOD nutrient buffer pillows</td>
<td>Lab - BOD testing</td>
</tr>
<tr>
<td>2</td>
<td>50pk</td>
<td>6 liter BOD nutrient buffer pillows</td>
<td>Lab - BOD testing</td>
</tr>
<tr>
<td>2</td>
<td>50pk</td>
<td>M-FC Broth Ampules</td>
<td>Lab - fetal testing (refrigerated)</td>
</tr>
<tr>
<td>1</td>
<td>50pk</td>
<td>M-Coliblue 24 broth ampules</td>
<td>Lab - E-coli Testing (refrigerated)</td>
</tr>
<tr>
<td>2</td>
<td>1 liter</td>
<td>Phosphate Standard 5ppm</td>
<td>Lab - Phosphorus testing</td>
</tr>
<tr>
<td>2</td>
<td>50ml</td>
<td>Glucose-Glutamic Acid Standard</td>
<td>Lab - BOD testing (refrigerated)</td>
</tr>
<tr>
<td>1</td>
<td>1 liter</td>
<td>Ammonium Molydate</td>
<td>Lab - Phosphorus testing (refrigerated)</td>
</tr>
<tr>
<td>1</td>
<td>1 pint</td>
<td>Potassium Antimontyl Tartrate</td>
<td>Lab - Phosphorus testing (refrigerated)</td>
</tr>
<tr>
<td>1</td>
<td>500ml</td>
<td>Phenolphthalein</td>
<td>Lab - Phosphorus testing</td>
</tr>
<tr>
<td>4</td>
<td>1 gal</td>
<td>Desiccant</td>
<td>Lab - humidity control for TSS testing</td>
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<tr>
<td>1</td>
<td>1 liter</td>
<td>Acid Reagent</td>
<td>Lab - Chlorine ISE testing</td>
</tr>
<tr>
<td>1</td>
<td>1 qt</td>
<td>Iodide Reagent</td>
<td>Lab - Chlorine ISE testing</td>
</tr>
<tr>
<td>1</td>
<td>1 liter</td>
<td>Sulfuric Acid Concentrate</td>
<td>Lab</td>
</tr>
<tr>
<td>2</td>
<td>1 gallons</td>
<td>Alcohol</td>
<td>Lab - sanitizing</td>
</tr>
<tr>
<td>1</td>
<td>3.8 liter</td>
<td>Buffer Solution PH 7.00</td>
<td>Lab - PH testing</td>
</tr>
<tr>
<td>2</td>
<td>3.8 liter</td>
<td>Buffer Solution PH 10.00</td>
<td>Lab - PH testing</td>
</tr>
<tr>
<td>6,000 gallons</td>
<td>Ferric Chloride</td>
<td>Plant - Reduction of Po4 in effluent</td>
<td></td>
</tr>
<tr>
<td>500 lbs</td>
<td>Sulfur Dioxide</td>
<td>Plant - Removal of Cl2 effluent</td>
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</tr>
<tr>
<td>150 gallons</td>
<td>Everfloc Polymer</td>
<td>Blower Room Bldg - sludge thickening</td>
<td></td>
</tr>
<tr>
<td>48 gallons</td>
<td>Sodium Hypochlorite 12.5%</td>
<td>Well #3 - Water disinfection</td>
<td></td>
</tr>
</tbody>
</table>
Sister Bay Utilities - Off-Site Plan

4. Primary Emergency Responders:

Sister Bay Liberty Grove Fire Department ................................................................. 911
Emergency Services – EMS and Emergency Management ................................. 911
Door County Sheriff’s Department ........................................................................... 911

5. Resources Available:

ON-SITE: Mobile absorbent kits, spill kits, PPE kits with respirators.

OFF-SITE:

Sister Bay – Liberty Grove Fire Department
Door County Emergency Services
Nor-Door First Responders
WI State Regional Hazardous Material Emergency Response Team
- Activated by Door County Emergency Services. 1-2 hr. ETA

TECHNICAL:

Infotrac 800 535-5053
WI Department of Agriculture 608 266 3232
Chemtrec 800 424 9300
National Response Center 800 424 8802

SUPPORT AVAILABLE AT FACILITY:

3 – SCBA cylinders Chemical Resistant Gloves
Chemical Resistant Boots Hardhats
Chemical Eye Protection Aprons
Dry Chemical Fire Extinguisher Carbon Dioxide Fire Extinguisher
First Aid Kits Rescue – 2 Man Lift
Portable Power Supply PH Meter
Combustible Gas Indicator Oxygen Concentration Indicator
Organic Vapor Monitor Toxic Gas Monitor

6. Emergency Reporting Requirement:

Section 304: Emergency Notification of Release.

Emergency Release Notification - SECTION 304 and s. 323.60, Wis. Stats., requires the owner or operator of a facility to immediately provide verbal notification to the appropriate governmental entities; National Response Center (NRC) at 800-424-8802, Wisconsin Emergency Management (WEM) at 800-943-0003, menu option #1, and the Local Emergency Planning Committee (LEPC) at 920-832-7101, that a release of a:
Comprehensive Environmental Response Compensation and Liability Act (CERCLA) hazardous substance (HS) or Emergency Planning and Community Right to Know Act (EPCRA) extremely hazardous substance (EHS) has occurred, which meets or exceeds the listed reportable quantity (RQ), when the release goes off-site. This is commonly referred to as the federal substance release reporting law.

**NOTE:** EPA has written that a release need not result in actual exposure to persons off-site to require Sec. 304 Notification; the potential for exposure off-site is sufficient.

### 7. GENERAL INFORMATION AND ASSUMPTIONS (Disclaimer)

The vulnerability zones set forth in this plan are based on the Environmental Protection Agency's (EPA's) Technical Guidance for Hazards Analysis. The zones (Listed in Section 8. Hazard Analysis – Initial Screening - EPA Credible Worst Case Analysis) are based on a credible worst-case scenario and identify the potential area for impact should an air-borne release of an Extremely Hazardous Substance (EHS) chemical occur. A re-evaluation scenario with more realistic parameters has also been computed. Parameters used for both scenarios have been described as part of the Hazard Analysis Summary in Section 8.

CAMEO Suite software was used in the preparation of vulnerability zones. It should be noted that CAMEOfm cannot compute zones greater than 10 miles or less than 0.1 miles. Thus, results that fall into these situations will be noted as “>10 miles” or “<0.1 miles.”

The field Incident Commander shall determine the actual response to an incident and the affected area may vary from the planning vulnerability zone identified in this plan. Depending on wind speed and direction, the amount of material released and other pertinent factors, the ACTUAL vulnerability zone may be smaller, and in some instances larger, than the credible worst-case vulnerability zone identified herein.

*The vulnerability zones determined in this plan are for general planning purposes only.*

### 8. Hazard Analysis:

**Facility Description:**

The Sister Bay Waste Water Treatment Plan is located East of the Village of Sister Bay at 102 Autumn Court. It is a chlorine treatment site for the wastewater system. There are four (4) full-time employees who work daily from 7:00 a.m. to 3:30 p.m. and provide checks on the facility during the weekends. The building is concrete block/brick construction and is secured by a locked fence with only authorized personnel having a key. The extremely hazardous chemicals on site are Chlorine, Sulfur Dioxide and Sulfuric Acid. Chlorine has been identified as the main hazard. There are three (3) cylinders on site, two are hooked up to the system and one is in storage.

There are no alarms in the chemical rooms. A worst case scenario would involve a valve breaking off of one cylinder during the off-loading process releasing 150 lbs. of Chlorine. This would create a vulnerability zone of 0.4 miles.
Sister Bay Utilities - Off-Site Plan
Door County
The immediate area around the plant is residential, business and agricultural land. There are several commercial properties along Highway 42/57, including restaurants, gasoline station, commercial stores, condominium projects and a marina. Major transportation routes used for delivery of chemicals to this facility are Hwy 42 or Hwy 57 and the various secondary roads to the facility.

The vulnerability zone was developed using the CAMEO computer program.

Seasonal Information:

Chlorine is maintained on site year round. The Chlorine cylinder may be full at any time during the year.

Greatest Potential for Release:
The greatest potential for a release of Chlorine would be an accident during the change of cylinders. There is always the possibility of a release when the facility receives new product to top off the tank.

Vulnerability Zone Initial Screening (EPA Credible Worst-Case Scenario):
(CAMEO Vulnerability Zone Modeling Parameters - 3.4 mph wind, atmospheric stability factor F, rural (open) terrain, ground level continuous (10 min.-gas, 1min.-liquid) total release, physical state – gas or liquid, Level of Concern: 1/10th IDLH)

Vulnerability Zone > 2.2 miles – Chlorine - CAS #: 07664-41-7
Amount released – full bulk tank (see “amount at risk” in Section 3)

Vulnerability Zone Reevaluation Scenario:
(CAMEO Vulnerability Zone Modeling Parameters – 11.9 mph wind, atmospheric stability factor D, urban terrain, ground level continuous (10 min.-gas, 1min.-liquid) most likely quantity released, physical state – gas or liquid, Level of Concern: 1/10th IDLH)

Estimate of Population Affected: 800 to a seasonal average of 8,000 persons.

Conclusions:
The facility has the potential for a small release due to the quantity of Chlorine utilized. The most likely scenario is a smaller release from a line or valve leak.

The lead time for a hazmat incident could be from 0 – 30 minutes. As a result, this short time may not allow for a safe evacuation, especially when extremely toxic chemical fumes are involved. An evacuation under these considerations may expose the population to dangerous toxic chemicals and the decision may be made to shelter in place. Preferred areas for protective sheltering would be interior hallways, rooms without windows or exterior doors, enclosed stairways and rooms on the side of the building away from where the hazard is approaching. Doors, windows and other potential air leaks should be sealed up to prevent toxic fumes from entering.

Experience indicates that shelter space would need to be provided for only 30% of the population within the initial isolation and evacuation zones and the remaining 7% would seek shelter with family and friends outside of the risk zone.
9. **Warning System:**

   **On-site:**

   There is no alarm or detection system for a *Chlorine* release. The facility does not have any type of alarm system for a chemical release, fire or burglar. Consequently, any notification of a chemical release will probably come as a result of an actual release and not a false alarm. The facility relies on verbal and telephone on site emergency notification.

   **Off-site:**

   The warning system will be operated in accordance with the County Warning Plan, which supports the ERP. Other warning systems that may be employed include the use of law enforcement vehicles using public address systems and door-to-door contact of residents by emergency responders.

10. **Accessibility Concerns:** Autumn Court is a 2 lane road and is the only paved access to this facility. Major roadways that may be affected would be State Hwy. 42 and State Hwy. 57.

11. **Special Facilities Affected:** Vulnerability Zone: *Chlorine* = 2.2 miles

<table>
<thead>
<tr>
<th>SPECIAL FACILITY NAME</th>
<th>ADDRESS</th>
<th>PHONE</th>
<th>POPULATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>None noted.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

12. **Population Protection:**

   The determination to Shelter In-Place or Evacuate would be made by the Incident Commander, as appropriate.

   The lead-time for a hazardous material incident could be from 0-30 minutes. As a result, this short amount of time may not allow for a safe evacuation, especially when extremely toxic chemical fumes are involved. An evacuation under these conditions may expose the population to dangerous toxic chemicals. A decision to Shelter In-Place must then be considered.

   **Shelter In-Place:**

   Preferred areas for protective sheltering would be interior hallways, rooms without windows or exterior doors, enclosed stairways and rooms on the side of the building away from where the hazard is approaching.

   Protective measures may include any or all of the following:

   - closing and locking all doors and windows
   - sealing cracks around doors and windows with duct tape or wet towels
   - Turning off all air circulation systems (heating, air conditioning, vent fans, fireplace, clothes dryers, etc...)

   8
**Evacuation:**

If evacuation is deemed appropriate, then experience indicates that shelter space would need to be provided for approximately 30% of the population within the initial isolation and evacuation zones. The remaining 70% can be expected to seek shelter with family and friends outside the risk area.

*Roles and responsibilities relative to evacuation and sheltering may be found in the Door County Emergency Response Plan, Emergency Support Function 1 (ESF-1) - Transportation.*

13. **Transportation Information:**

The facility primarily receives its supply of chemicals from Green Bay, WI, and South of Green Bay. Deliveries would come via Highway 42/57 from the south.

14. **Other Considerations:**

**Fire Potential and Consequences:**

The facility has a normal fire load, however, management and the FD have met and the policy of "let the chemical storage building burn" has been discussed.

**Surrounding Area and Lines of Communication:**

Industrial / Commercial / Residential

**Environmental Issues (initial):** Prevent entry into water intakes and waterways.

**Other Jurisdictions affected:**

A large incident involving the Chlorine would affect other Door County municipalities.

15. **Limits of Liability:**

The following is a copy (combination of CAMEO, ALOHA, and MARPLOT) of the Limitation of Liability statement found in the CAMEO, Version 2.0, ALOHA Version 5.1, and MARPLOT Version 2.0 manuals. This should be considered as part of this Planner's Limitation of Liability and gives him equal coverage as provided to the United States Government.

"Limitation of Liability - The United States Government has used its best effort to deliver complete data incorporated into CAMEO and ALOHA. Nevertheless, the United States Government and the National Safety Council do not warranty accuracy or completeness, are not responsible for errors and omissions, and are not liable for any direct, indirect, or consequential damages flowing from the recipient's use of CAMEO, ALOHA, and MARPLOT."
Sister Bay Utilities - Off-Site Plan

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Indemnification - The recipient shall indemnify and save harmless the United States and the National Safety Council and their agents and employees against any and all loss, damage, claim, or liability whatsoever, due to personal injury or death, or damage to property of others directly or indirectly due to the use by the recipient, including failure to comply with the provisions of the National Safety Council order form."

16. References:


17. Distribution List:

1) Facility
2) Fire Department of Jurisdiction – Sister Bay Liberty Grove Fire Department
3) Wisconsin Emergency Management Regional Office
4) Door County Emergency Management

18. Attachments:

1) Safety Data Sheets (SDS) for EHS Chemicals
2) Vulnerability Zone and Transportation Route Map(s)
3) Facility Layout and Selected Information
4080 Chlorine - EPA Reg. No. 7870-2

- Contains gas under pressure; may explode if heated

Precautionary Statements:
- Do not breathe dust, fumes, gas, mist, vapor, spray
- IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician
- IF SKIN (or hair): Remove contaminated clothing and hosiery. Wash skin with soap and water
- IF EXPOSED: Call a POISON CENTER or doctor/physician
- Do not eat, drink or smoke when using this product
- Get medical advice/attention if you feel unwell
- Dispose of container/container to an approved waste disposal plant
- Avoid release to the environment
- Keep away from clothing/combustible materials
- Keep reduction valves free from grease and dirt
- In case of fire: Stop leak if safe to do so
- Store in a cool, dry place
- Intensive heat in closed container may cause a violent explosion
- Use only outdoors or in a well-ventilated area
- Wear respiratory protection
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician
- Store in a well-ventilated place. Keep container tightly closed
- Do NOT incinerate. Call a physician or poison control center immediately.

3. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Weight %</th>
<th>EC No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chlorine (elemental Cl and hypochlorite salts)</td>
<td>7782-50-5</td>
<td>50-85-100</td>
<td>231-095-5</td>
</tr>
</tbody>
</table>

4. First Aid Measures

General Advice: Immediate medical attention is required. In case of accident or uncharted, seek medical advice immediately (show label, if possible).

Eye Contact: Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Call a physician immediately.

Skin Contact: Wash off immediately with soap and plenty of water while removing all contaminated clothing and shoes. Wash contaminated clothing before reuse. Immediate medical attention is required.

Inhalation: Immediate medical attention is required. Move to fresh air. If not breathing, give artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Artificial respiration and/or oxygen may be necessary.

Ingestion: Do NOT induce vomiting. Call a physician or poison control center immediately.
Note to Physicians: Treat symptomatically.

Self-protection of the First Aider: Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

5. Fire-fighting Measures

Flammable Properties: Substance does not burn but will support combustion

Explosive Properties: May react explosively with combustible organic or readily oxidizable materials such as alcohols, turpentine, charcoal, organic nitrides, metal powder, hydrogen sulfide, etc.

Suitable Extinguishing Media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

Unsuitable Extinguishing Media: No information available

Protective Equipment and Precautions for Firefighters: in the event of a fire, wear full protective clothing and MSHA/NIOSH (approved or equivalent) self-contained breathing apparatus with full facepieceppard in the pressure-demand or other positive pressure mode.

6. Accidental Release Measures

Personal Precautions: Use personal protective equipment as required. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas. Avoid contact with skin, eyes and inhalation of vapors.

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system.

Methods for Containment: Prevent further leakage or spillage if safe to do so. Do not remove tank/containers. Do not apply water unless directed to do so. Try to position container so that gas leaks and not liquid. Apply emergency kit if available. Call supplier or CHEMTREC for assistance.

Methods for Cleaning Up: Cover liquid spill with sand, earth or other non-combustible absorbent material. Apply emergency kit if available. Contact supplier or CHEMTREC for assistance.

Other Information: Not applicable.

7. Handling and Storage

Advice on Safe Handling: Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Do not breathe dusts, mists, or vapors. Do not ingest. Do not eat, drink or smoke when using this product. Use with local exhaust ventilation. Do not smoke.

Storage Conditions: Keep out of the reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in proper labelled containers. Protect from direct sunlight.

Incompatible Materials: Tin, Metals, Sulphides, Metal oxides.

8. Exposure Controls / Personal Protection

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>AGGIHTLV</th>
<th>OSHA PEL</th>
<th>Ontario/TWA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chlorine (elemental CI and hypochlorite salts)</td>
<td>STEL: 1 ppm, TLV: 3.5 ppm</td>
<td>1 ppm Ceiling, 1 ppm STEL, 3 mg/m3 Ceiling, 3 mg/m3 STEL</td>
<td>TWA: 0.8 ppm, STEL: 1 ppm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>European Union</th>
<th>China</th>
<th>Japan</th>
<th>Korea</th>
<th>Australia</th>
<th>Taiwan</th>
</tr>
</thead>
</table>

Page 3 / 8
### Physical and Chemical Properties

#### 9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks / Method</th>
<th>Odor:</th>
<th>Odor Threshold:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State:</td>
<td>Liquid Gas</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Appearance:</td>
<td>No information</td>
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</tr>
<tr>
<td>Color:</td>
<td>Amber Green Yellow</td>
<td></td>
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</tr>
<tr>
<td>Property:</td>
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</tr>
<tr>
<td>pH</td>
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<td></td>
</tr>
<tr>
<td>&quot;Salt Out&quot; Point (°F):</td>
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<tr>
<td>Melting Point/Freezing Point:</td>
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<tr>
<td>Flash Point:</td>
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<td>Evaporation Rate (Boiling Point):</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Flammability (solid, gas):</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Flammability Limits in Air:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper Flammability Limit:</td>
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<td></td>
<td></td>
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</tr>
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<td>Vapor Pressure (mm Hg):</td>
<td>5830</td>
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<td></td>
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</tr>
<tr>
<td>Vapor density (Air =1):</td>
<td>2.6</td>
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<td></td>
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<tr>
<td>Specific Gravity (H2O=1):</td>
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<td></td>
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<tr>
<td>Specific Gravity (2nd value):</td>
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</tr>
<tr>
<td>Water Solubility:</td>
<td>Slightly soluble</td>
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</tr>
<tr>
<td>Partition Coefficient (n-octanol/water):</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Autoignition Temperature:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Decomposition Temperature:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kinematic Viscosity:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dynamic Viscosity:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oxidizing Properties:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Explosive Properties:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### 9.2. Other Information

- **Softening Point:** No information available
- **Molecular Weight:** 70.91
- **VOC Content(%)**: No information available
- **Density:** 1.481 g/mL Bar @ 15.6°C
- **Bulk Density:** No information available
- **% Volatiles by Volume @ 21°C (70°F):** 100

#### 10. Stability and Reactivity

- **Stability:** Stable under normal conditions of use and storage
- **Conditions to Avoid:** Heat, flames and sparks; Incompatibles; Moisture
14. Toxicological Information

Product Information

Acute Toxicity:

The following values are calculated based on chapter 3.1 of the GHS document.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD₅₀</th>
<th>Dermal LD₅₀</th>
<th>LC₅₀ (Lethal Concentration)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chlorine (elemental Cl and hypochlorite salts)</td>
<td>0.05 mg/L</td>
<td>0.01 mg/L</td>
<td>0.01 mg/L</td>
</tr>
</tbody>
</table>

Chronic Toxicity:

Carcinogenicity:

The product does not contain any carcinogenic or potential carcinogens as listed by OSHA, IARC or NTP.

Target Organ Effects:

Eyes, Respiratory system, Skin.

15. Ecological Information

Ectotoxicity

3% of the mixture consists of components(s) of unknown hazard to the aquatic environment.

Toxic to aquatic life with long lasting effects. Very toxic to aquatic life with long lasting effects.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Toxicity to algae</th>
<th>Toxicity to fish</th>
<th>Toxicity to estuarine and other aquatic invertebrates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chlorine (elemental Cl and hypochlorite salts)</td>
<td>0.44 - 9.9 mg/L</td>
<td>0.04 - 0.01 mg/L</td>
<td>0.03 - 0.09 mg/L</td>
</tr>
</tbody>
</table>

Persistence and Degradability:

No information available.

Bioaccumulation:

No information available.

Mobility:

No information available.

16. Disposal Considerations

Waste from Residues/Unused Products:

Disposal should be in accordance with applicable regional, national and local laws and regulations.

17. Transport Information
### Regulatory Information

#### International Inventories

All of the components in the product are on the following inventory lists: TSCA (United States), Canada (DSL/NDDSL), Europe (EINECS/ELINCS/ELINPI), Australia (AICS), South Korea (KeCL), China (IECSC), Philippines (PICCS). This product contains a substance not listed on international inventories - it is for research and development use only.

<table>
<thead>
<tr>
<th>Inventory</th>
<th>AICS</th>
<th>TSCA</th>
<th>DSL</th>
<th>NDSSL</th>
<th>EINECS/ELINCS</th>
<th>ENCS</th>
<th>IECSC</th>
<th>KECL</th>
<th>PICCS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Name</td>
<td>AICS</td>
<td>TSCA</td>
<td>DSL</td>
<td>NDSSL</td>
<td>EINECS/ELINCS</td>
<td>ENCS</td>
<td>IECSC</td>
<td>KECL</td>
<td>PICCS</td>
</tr>
<tr>
<td>Chlorine (elemental Cl)</td>
<td>Listed</td>
<td>Listed</td>
<td>Listed</td>
<td>Listed</td>
<td>Listed</td>
<td>Listed</td>
<td>Listed</td>
<td>Listed</td>
<td>Listed</td>
</tr>
</tbody>
</table>

**Inventory Legend:**
- AICS: Australian Inventory of Chemical Substances
- TSCA: United States Toxic Substances Control Act Section 8(d) Inventory
- DSL/NDSSL: Canadian Domestic Substances List/New Domestic Substances List
- EINECS/ELINCS: European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- ENCS: Japan Existing and New Chemical Substances
- IECSC: China Inventory of Existing Chemical Substances
- KECL: Korean Existing and Evaluated Chemical Substances
- PICCS: Philippines Inventory of Chemicals and Chemical Substances

**Restrictions - Reach Title VII:** No information available.

### US Federal Regulations

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 306). There may be specific reporting requirements at the local, regional, or state level depending on releases of this material.
4860 Chlorine - EPA Reg. No. 7870-2

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CERCLA Hazardous Substances and the Reportable Quantities</th>
<th>SARA Extremely Hazardous Substances EPCRA RQ</th>
<th>SARA Extremely Hazardous Substances TIER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chlorine (elemental Cl and hypochlorite salt)</td>
<td>15 lb</td>
<td>10 lb</td>
<td>100 lb</td>
</tr>
<tr>
<td></td>
<td>4.54 kg</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**SARA 313**
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>SARA 313 - Threshold Values 'l'</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chlorine (elemental Cl and hypochlorite salt)</td>
<td>10</td>
</tr>
</tbody>
</table>

**SARA 313/312 Hazard Categories**
- Acute health hazard: Yes
- Chronic health hazard: No
- Fire hazard: Yes
- Sudden release of pressure hazard: Yes
- Reactive hazard: No

**U.S. State Right-to-Know Regulations**
- California Proposition 65:
  This product does not contain any Proposition 65 chemicals.

**16: Other Information**

**National Fire Protection Association (NFPA) Ratings**

![NFPA Rating 0-0]

**NSF/ANSI 60 Certification**

![NSF Certification]

**Maximum Use (mg/L unless otherwise indicated):**

<table>
<thead>
<tr>
<th>Prepared By:</th>
<th>HSE Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>Issue Date:</td>
<td>05-May-2012</td>
</tr>
<tr>
<td>Revision Date:</td>
<td>05-Jul-2016</td>
</tr>
<tr>
<td>Revision Note:</td>
<td>Updated section(s) 2,4,5,6,9</td>
</tr>
</tbody>
</table>
Disclaimer:

Please be advised that it is your responsibility to inform your employees of the hazards of this substance, to advise them of what these properties mean and be sure they understand exposure information. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication.

The information presented herein, while not guaranteed, was prepared by competent technical personnel and is true and accurate to the best of our knowledge. No warranty or guaranty, express or implied, is made regarding performance, stability, or otherwise. This information is not intended to be all-inclusive as to the manner and conditions of use, handling, and storage. Other factors may require additional safety or performance considerations. While our technical personnel will be happy to respond to questions regarding safe handling and use procedures, the handling and use remains the responsibility of the consumer. No suggestions are intended as, and should not be construed as, a recommendation to infringe on any existing patents or to violate any Federal, State, or local laws.

End of Safety Data Sheet
Sturgeon Bay Utilities
Florida Street Well #3
99635
Off-Site Emergency Plan Review Guide and Index

1. Facility Identification ........................................ Page 3
2. Facility Coordinator / Alternate Coordinator ............ Page 3
3. Chemicals on Site ............................................ Page 3
4. Primary Emergency Responders ........................... Page 4
5. Resources Available ......................................... Page 4
7. General Information and Assumptions (Disclaimer) .... Page 5
8. Hazard Analysis ................................................ Page 6
9. Warning System ............................................... Page 7
10. Accessibility Concerns ...................................... Page 8
11. Special Facilities Affected .................................. Page 8
12. Population Protection ....................................... Page 8
13. Transportation Information ............................... Page 9
14. Other Considerations ....................................... Page 9
15. Limits of Liability .......................................... Page 9
16. References .................................................... Page 10
17. Distribution List ............................................. Page 10
18. Attachments:
   1) Safety Data Sheets (SDS) for EHS Chemicals ....... Page 11
   2) Vulnerability Zone and Transportation Route Map(s) Page 21/22
   3) Facility Layout and Selected Information .......... Page 24
1. Florida and N. 3rd Ave  
Sturgeon Bay, WI 54235  
920 746-2820  
WEM ID Number: 99635

2. **Facility Coordinator:**  
Cliff White  
Operations Manager  
920-746-2049 (O)  
920-493-4102 (M)

**Alternate Coordinator:**  
Joseph Potier  
Department Supervisor  
920-743-3210 (O)  
920-333-0574 (M)

3. **Chemicals on site:**  

**Extremely Hazardous Substances (EHS)**

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name - Trade Name</th>
<th>Max Amount (Pounds)</th>
<th>Amount at Risk (Pounds)</th>
</tr>
</thead>
<tbody>
<tr>
<td>7782-50-5</td>
<td>Chlorine (Liquefied Gas)</td>
<td>450</td>
<td>450</td>
</tr>
</tbody>
</table>

UN#: 1017 // NFPA: H4-F0-I0-S-OX  
Vulnerability Zone* = 2.2 miles  
*(Based on Reevaluation Scenario see Section 8)

Vulnerability zone is based on the EPA Technical Guidance for Hazardous Analysis as calculated by CAMEO. See Section 7 for more information.

**Hazardous Chemicals (HC):** Numerous other chemicals.
4. **Primary Emergency Responders:**

   Sturgeon Bay Fire Department ........................................................................................................ 911
   Emergency Services .......................................................................................................................... 911
   Sturgeon Bay Police Department ................................................................................................... 911

5. **Resources Available:**

   **ON-SITE:** N/A

   **OFF-SITE:**
   Mobile absorbent kits, spill kits, PPE kits with respirators at WWTP
   Sturgeon Bay Fire Department
   Door County Emergency Services
WI State Regional Hazardous Material Emergency Response Team
- Activated by Door County Emergency Management. 1-2 hr. ETA

TECHNICAL:

Infotrac 800 535-5053
WI Department of Agriculture 608 266 3232
Chemtrec 800 424 9300
National Response Center 800 424 8802

SUPPORT AVAILABLE AT FACILITY (OFF SITE)
Chemical Resistant Gloves
Chemical Resistant Boots Hardhats
Chemical Eye Protection Aprons
Dry Chemical Fire Extinguisher Halon Extinguisher
First Aid Kits
Portable Power Supply PH Meter
Combustible Gas Indicator Oxygen Concentration Indicator
Organic Vapor Monitor Toxic Gas Monitor

6. Emergency Reporting Requirement:

Section 304: Emergency Notification of Release.

Emergency Release Notification - SECTION 304 and s. 323.60, Wis. Stats., requires the owner or operator of a facility to immediately provide verbal notification to the appropriate governmental entities: National Response Center (NRC) at 800-424-8802, Wisconsin Emergency Management (WEM) at 800-943-0003, menu option #1, and the Local Emergency Planning Committee (LEPC) at 920-832-7101, that a release of a:

Comprehensive Environmental Response Compensation and Liability Act (CERCLA) hazardous substance (HS) or Emergency Planning and Community Right to Know Act (EPCRA) extremely hazardous substance (EHS) has occurred, which meets or exceeds the listed reportable quantity (RQ), when the release goes off-site. This is commonly referred to as the federal substance release reporting law.

NOTE: EPA has written that a release need not result in actual exposure to persons off-site to require Sec. 304 Notification; the potential for exposure off-site is sufficient.

7. GENERAL INFORMATION AND ASSUMPTIONS (Disclaimer)

The vulnerability zones set forth in this plan are based on the Environmental Protection Agency’s (EPA’s) Technical Guidance for Hazards Analysis. The zones (Listed in Section 8. Hazard Analysis – Initial Screening - EPA Credible Worst Case Analysis) are based on a credible worst-case scenario and identify the potential area for impact should an air-borne release of an Extremely Hazardous Substance (EHS) chemical occur. A re-evaluation scenario with more realistic parameters has also been computed. Parameters used for both scenarios have been described as part of the Hazard Analysis Summary in August 2019
Section 8.

CAMEO Suite software was used in the preparation of vulnerability zones. It should be noted that CAMEOfm cannot compute zones greater than 10 miles or less than 0.1 miles. Thus, results that fall into these situations will be noted as “>10 miles” or “<0.1 miles.”

The field Incident Commander shall determine the actual response to an incident and the affected area may vary from the planning vulnerability zone identified in this plan. Depending on wind speed and direction, the amount of material released and other pertinent factors, the ACTUAL vulnerability zone may be smaller, and in some instances larger, than the credible worst-case vulnerability zone identified herein.

The vulnerability zones determined in this plan are for general planning purposes only.

8. Hazard Analysis:

Facility Description:

Sturgeon Bay Utilities operates this well site located at the intersection of Florida St. and N. 3rd Ave. The building is concrete block/brick construction and is secured at all times. There are no employees on site. The facility is a water pumping/purification operation. The extremely hazardous chemical on site is Chlorine. There are three (3) 150 lb cylinders on site, one is hooked up to the system and two are in storage.

There is no on-site monitoring system for a chlorine release. A worst case scenario would involve a valve breaking off of one cylinder during the off-loading process releasing 150 lbs. of Chlorine. This would create a vulnerability zone of 0.4 miles. The chlorine is delivered by Hawkins Chemical Company out of Fon du Lac. The delivery route travels north on Hwy 42/57, Business 42/57 and residential streets.

The vulnerability zone was developed using the CAMEO computer program.

Seasonal Information:

Chlorine is maintained on site year round. The Chlorine cylinder may be full at any time during the year.

Greatest Potential for Release:

The greatest potential for a release of Chlorine would be an accident during the change of cylinders. There is always the possibility of a release when the facility receives new product to top off the tank.
Special Risk Considerations:

There is one special facilities located within the 0.4 mile vulnerability zone:

Fincantieri Bay Shipbuilding
605 N. 3rd Ave
920-743-5524
800 Personnel

Vulnerability Zone Initial Screening (EPA Credible Worst-Case Scenario):
(CAMEO Vulnerability Zone Modeling Parameters - 3.4 mph wind, atmospheric stability factor F, rural (open) terrain, ground level continuous (10 min.-gas, 1min.-liquid) total release, physical state – gas or liquid, Level of Concern: 1/10th IDLH)

Vulnerability Zone > 2.2 miles – Chlorine - CAS #: 07664-41-7
Amount released – full bulk tank (see “amount at risk” in Section 3)

Vulnerability Zone Reevaluation Scenario:
(CAMEO Vulnerability Zone Modeling Parameters – 11.9 mph wind, atmospheric stability factor D, urban terrain, ground level continuous (10 min.-gas, 1min.-liquid) most likely quantity released, physical state – gas or liquid, Level of Concern: 1/10th IDLH)

Estimate of Population Affected: 1,070 to a seasonal average of 5,000 persons.

Conclusions:

The facility has the potential for a small release do to the quantity of Chlorine utilized. The most likely scenario is a smaller release from a line or valve leak.

The lead time for a hazmat incident could be from 0 – 30 minutes. As a result, this short time may not allow for a safe evacuation, especially when extremely toxic chemical fumes are involved. An evacuation under these considerations may expose the population to dangerous toxic chemicals and the decision may be made to shelter in place. Preferred areas for protective sheltering would be interior hallways, rooms without windows or exterior doors, enclosed stairways and rooms on the side of the building away from where the hazard is approaching. Doors, windows and other potential air leaks should be sealed up to prevent toxic fumes from entering.

Experience indicates that shelter space would need to be provided for only 30% of the population within the initial isolation and evacuation zones and the remaining 7% would seek shelter with family and friends outside of the risk zone.

9. Warning System:

On-site:

There is no on-site detection system for a Chlorine release. The facility does have a type of alarm system for break-ins but not fire. Consequently, any notification of a chemical
release will probably come as a result of an actual release and not a false alarm. The facility relies on verbal and telephone on site emergency notification.

**Off-site:**

The warning system will be operated in accordance with the County Warning Plan, which supports the ERP. Other warning systems that may be employed include the use of law enforcement vehicles using public address systems and door-to-door contact of residents by emergency responders.

10. **Accessibility Concerns:** The facility is located at the intersection of Florida St and 3rd Ave. Both are two lane residential roads. No accessibility concerns.

11. **Special Facilities Affected:** Vulnerability Zone: Chlorine = 2.2 miles

<table>
<thead>
<tr>
<th>SPECIAL FACILITY NAME</th>
<th>ADDRESS</th>
<th>PHONE</th>
<th>POPULATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fincantieri Bay Shipbuilding</td>
<td>605 N. 3rd Ave</td>
<td>920-743-5524</td>
<td>800</td>
</tr>
</tbody>
</table>

12. **Population Protection:**

The determination to Shelter In-Place or Evacuate would be made by the Incident Commander, as appropriate.

The lead-time for a hazardous material incident could be from 0-30 minutes. As a result, this short amount of time may not allow for a safe evacuation, especially when extremely toxic chemical fumes are involved. An evacuation under these conditions may expose the population to dangerous toxic chemicals. A decision to Shelter In-Place must then be considered.

**Shelter In-Place:**

Preferred areas for protective sheltering would be interior hallways, rooms without windows or exterior doors, enclosed stairways and rooms on the side of the building away from where the hazard is approaching.

Protective measures may include any or all of the following:

- closing and locking all doors and windows
- sealing cracks around doors and windows with duct tape or wet towels
- Turning off all air circulation systems (heating, air conditioning, vent fans, fireplace, clothes dryers, etc...)

**Evacuation:**

If evacuation is deemed appropriate, then experience indicates that shelter space would need to be provided for approximately 30% of the population within the initial isolation and evacuation zones. The remaining 70% can be expected to seek shelter with family and friends outside the risk area.
Roles and responsibilities relative to evacuation and sheltering may be found in the Door County Emergency Response Plan, Emergency Support Function 1 (ESF-1) - Transportation.

13. Transportation Information:

The facility primarily receives its supply of chemicals from Green Bay, WI, and South of Green Bay. Deliveries would come via Highway 42/57 from the south.

14. Other Considerations:

Fire Potential and Consequences:
Fire Department personnel must wear full PPE during fire operations due to Chlorine on site.

Surrounding Area and Lines of Communication:

Industrial / Commercial / Residential

Environmental Issues (initial): Prevent entry into water intakes and waterways.

Other Jurisdictions affected:

A large incident involving the Chlorine would affect other Door County municipalities.

15. Limits of Liability:

The following is a copy (combination of CAMEO, ALOHA, and MARPLOT) of the Limitation of Liability statement found in the CAMEO, Version 2.0, ALOHA Version 5.1, and MARPLOT Version 2.0 manuals. This should be considered as part of this Planner's Limitation of Liability and gives him equal coverage as provided to the United States Government.

"Limitation of Liability - The United States Government has used its best effort to deliver complete data incorporated into CAMEO and ALOHA. Nevertheless, the United States Government and the National Safety Council do not warranty accuracy or completeness, are not responsible for errors and omissions, and are not liable for any direct, indirect, or consequential damages flowing from the recipient's use of CAMEO, ALOHA, and MARPLOT.

The CAMEO, ALOHA, and MARPLOT software are being distributed "as is" and neither the United States Government nor the National Safety Council makes any warranty claims, either express or implied, with respect to the CAMEO, MARPLOT, or ALOHA software, their quality, accuracy, completeness, performance, merchantability, or fitness for any intended purpose.

Indemnification - The recipient shall indemnify and save harmless the United States and the National Safety Council and their agents and employees against any and all loss,
damage, claim, or liability whatsoever, due to personal injury or death, or damage to property of others directly or indirectly due to the use by the recipient, including failure to comply with the provisions of the National Safety Council order form."

16. References:


17. Distribution List:

1) Facility
2) Fire Department of Jurisdiction – Sturgeon Bay Fire Department
3) Wisconsin Emergency Management Regional Office
4) Door County Emergency Management

18. Attachments:

1) Safety Data Sheets (SDS) for EHS Chemicals
2) Vulnerability Zone and Transportation Route Map(s)
3) Facility Layout and Selected Information
<table>
<thead>
<tr>
<th>Chlorine</th>
</tr>
</thead>
<tbody>
<tr>
<td>Survey Data Sheet F-10032</td>
</tr>
<tr>
<td>Door County</td>
</tr>
<tr>
<td>August 2019</td>
</tr>
</tbody>
</table>

**Storage Containers**

- Store chlorine gas and its liquid in a cool, well-ventilated area. A proper storage area is a 10-foot radius from the chlorine gas storage area. Store chlorine in 10-gallon disposable cylinders or certified cylinders for off-site use. Store chlorine at a minimum of 100 psi. Never store chlorine in the same area as other chemicals. Use a separate storage area for chlorine and other chemicals.

**Precautions**

- Avoid inhaling chlorine gas. Wear protective clothing, including gloves, face masks, and goggles. Chlorine can be dangerous if inhaled. Always wear protective clothing when handling chlorine.

**Table**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Additional Information**

This information is provided for general reference. Always consult the manufacturer's instructions for proper handling and storage. Chlorine is highly reactive and can be lethal if inhaled. Always wear protective clothing and follow all safety guidelines.
# Chlorine Safety Data Sheet P-4280

## Physical and Chemical Properties

- **Boiling Point**: 12.5°C
- **Melting Point**: -101°C
- **Density**: 1.50 g/cm³
- **Flash Point**: 270°C
- **Fire Point**: 560°F
- **Odor**: Sharp and pungent
- **Odor Threshold Value**: 0.2 ppm

## Hazard Classification

- **Explosive Properties**: Non-explosive
- **Flammability**: Flammable
- **Health Hazard**: Health hazard
- **Environmental Hazards**: Environmental hazard

## Compatibility

- **Stability**: Stable under normal conditions
- **Reactivity**: Not reactive with other substances

## Hazardous Ingredients

- **Chlorine**: 100%

## Physical and Chemical Data

- **Appearance**: Colorless gas
- **Odor**: Sharp and pungent
- **Specific Gravity**: 1.50
- **Boiling Point**: 12.5°C
- **Melting Point**: -101°C
- **Flash Point**: 270°C
- **Fire Point**: 560°F
- **Relative Density**: 1.50

## Health Information

- **Health Hazard**: Causes respiratory irritation.
- **Emergency Procedures**: In case of contact with skin or eyes, wash immediately with大量水

## Precautions for Safe Handling and Use

- **Firefighting**: Use water spray
- **Handling**: Wear appropriate protective equipment

## Exposure Controls and Personal Protection

- **Respirators**: Negative pressure air-purifying respirators
- **Eye Protection**: Safety goggles
- **Skin Protection**: Rubber gloves

## Disposal

- **Disposal Method**: Reuse or recycle if possible.

## Other Information

- **Stability and Reactions**: Stable under normal conditions.
- **Decomposition Products**: Hydrochloric acid, chlorine gas, and water.
Chlorine

Safety Data Sheet P-4670

Sturgeon Bay Utilities Florida Well #3 - Off-Site Plan

Door County

August 2019 18

Emergency Preparedness Guide (Note):

1. Keep on site.

General Information:

1. May be explosive under fire conditions.

Hazardous Decomposition Products:

1. In case of fire, cool exposed containers using a water spray雾a.)

Storage, Transportation:

1. Must be stored in accordance with local, state, and federal regulations.

Handling:

1. Avoid contact with skin, eyes, or clothing.

Precautions for Users:

1. Wear appropriate protective equipment when handling the product.

Exposure Limits:

1. TLV: 0.1 ppm.

Inhalation:

1. Remove to fresh air. Provide artificial respiration if necessary.

Ingestion:

1. Do not induce vomiting.

Skin Contact:

1. Wash thoroughly with soap and water.

Eye Contact:

1. Rinse with plenty of water for at least 15 minutes.

Other:

1. For professional assistance in event of serious exposure.

References:


Listed on the National/State Database of Chemical Registry Systems

Listed at the United Nations GHS (section 1.1)

Subclass in the分类 schemes of United Nations GHS (section 2.3)

GHS Classification:

1. Flammable (1).

Physical Hazards:

1. Extinguishing Media: Water mist, fog, dry chemical foam.

Health Hazards:

1. Delayed lethality and systemic effects.

Technical Name:

1. Chlorine (Cl2).

Molecular Formula:

1. Cl2.
ATTACHMENT 2) VULNERABILITY ZONE
ATTACHMENT 2) – TRANSPORTATION ROUTE MAP
ATTACHMENT 3 – FACILITY PICTURES
Sturgeon Bay Utilities
Quincy Well #6
123943
Off-Site Emergency Plan Review Guide and Index

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18. Attachments:
   1) Safety Data Sheets (SDS) for EHS Chemicals Page 11
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   3) Facility Layout and Selected Information Page 24
1. 328 S. 12th Ave  
Sturgeon Bay, WI 54235  
920 746-2820  
WEM ID Number: 123943

2. Facility Coordinator: Alternate Coordinator:  
Cliff White Joseph Potier  
Operations Manager Department Supervisor  
920-746-2820 (O) 920-743-3210 (O)  
920-493-4102 (M) 920-333-0574 (M)

3. Chemicals on site:  

**Extremely Hazardous Substances (EHS)**

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name -Trade Name</th>
<th>Max Amount (Pounds)</th>
<th>Amount at Risk (Pounds)</th>
</tr>
</thead>
<tbody>
<tr>
<td>7782-50-5</td>
<td><strong>Chlorine</strong> (Liquefied Gas)</td>
<td>450</td>
<td>450</td>
</tr>
</tbody>
</table>

UN#: 1017 // NFPA: H4-F0-I0-S-OX  
**Vulnerability Zone* = 2.2 miles**  
*(Based on Reevaluation Scenario see Section 8)*

Vulnerability zone is based on the EPA Technical Guidance for Hazardous Analysis as calculated by CAMEO. See Section 7 for more information.

**Hazardous Chemicals (HC): Numerous other chemicals.**
4. **Primary Emergency Responders:**

Sturgeon Bay Fire Department ................................................................. 911
Emergency Services ................................................................................. 911
Sturgeon Bay Police Department ............................................................... 911

5. **Resources Available:**

**ON-SITE:** N/A

**OFF-SITE:**
Mobile absorbent kits, spill kits, PPE kits with respirators.
Sturgeon Bay Fire Department
Door County Emergency Services

August 2019
WI State Regional Hazardous Material Emergency Response Team - Activated by Door County Emergency Management. 1-2 hr. ETA

TECHNICAL:

Infotrac 800 535-5053
WI Department of Agriculture 608 266 3232
Chemtrec 800 424 9300
National Response Center 800 424 8802

SUPPORT AVAILABLE AT FACILITY (OFF-SITE):

Chemical Resistant Gloves
Chemical Resistant Boots
Chemical Eye Protection
Dry Chemical Fire Extinguisher
First Aid Kits
Portable Power Supply
Combustible Gas Indicator
Organic Vapor Monitor

Hardhats
Aprons
Halon Extinguisher
PH Meter
Oxygen Concentration Indicator
Toxic Gas Monitor

6. Emergency Reporting Requirement:

Section 304: Emergency Notification of Release.

Emergency Release Notification - SECTION 304 and s. 323.60, Wis. Stats., requires the owner or operator of a facility to immediately provide verbal notification to the appropriate governmental entities; National Response Center (NRC) at 800-424-8802, Wisconsin Emergency Management (WEM) at 800-943-0003, menu option #1, and the Local Emergency Planning Committee (LEPC) at 920-832-7101, that a release of a:

Comprehensive Environmental Response Compensation and Liability Act (CERCLA) hazardous substance (HS) or Emergency Planning and Community Right to Know Act (EPCRA) extremely hazardous substance (EHS) has occurred, which meets or exceeds the listed reportable quantity (RQ), when the release goes off-site. This is commonly referred to as the federal substance release reporting law.

NOTE: EPA has written that a release need not result in actual exposure to persons off-site to require Sec. 304 Notification; the potential for exposure off-site is sufficient.

7. GENERAL INFORMATION AND ASSUMPTIONS (Disclaimer)

The vulnerability zones set forth in this plan are based on the Environmental Protection Agency’s (EPA’s) Technical Guidance for Hazards Analysis. The zones (Listed in Section 8. Hazard Analysis – Initial Screening - EPA Credible Worst Case Analysis) are based on a credible worst-case scenario and identify the potential area for impact should an air-borne release of an Extremely Hazardous Substance (EHS) chemical occur. A re-evaluation scenario with more realistic parameters has also been computed. Parameters

August 2019
used for both scenarios have been described as part of the Hazard Analysis Summary in Section 8.

CAMEO Suite software was used in the preparation of vulnerability zones. It should be noted that CAMEO
fm cannot compute zones greater than 10 miles or less than 0.1 miles. Thus, results that fall into these situations will be noted as “>10 miles” or “<0.1 miles.”

The field Incident Commander shall determine the actual response to an incident and the affected area may vary from the planning vulnerability zone identified in this plan. Depending on wind speed and direction, the amount of material released and other pertinent factors, the ACTUAL vulnerability zone may be smaller, and in some instances larger, than the credible worst-case vulnerability zone identified herein.

The vulnerability zones determined in this plan are for general planning purposes only.

8. Hazard Analysis:

Facility Description:

Sturgeon Bay Utilities operates this well site located at 328 S. 12th Ave. The building is concrete block/brick construction and is secured at all times. There are no employees on site. The facility is a water pumping/purification operation that utilizes an ozone system. The extremely hazardous chemical on site is Chlorine. There are two (2) 150 lb cylinders on site, one is hooked up to the system and one is in storage.

There is on-site monitoring system for a chlorine release, this system does notify off site personnel. A worst case scenario would involve a valve breaking off of one cylinder during the off-loading process releasing 150 lbs. of Chlorine. This would create a vulnerability zone of 0.4 miles. The chlorine is delivered by Hawkins Chemical Company out of Fon du Lac. The delivery route travels north on Hwy 42/57, Business 42/57 and residential streets.

The vulnerability zone was developed using the CAMEO computer program.

Seasonal Information:

Chlorine is maintained on site year round. The Chlorine cylinder may be full at any time during the year.

Greatest Potential for Release:

The greatest potential for a release of Chlorine would be an accident during the change of cylinders. There is always the possibility of a release when the facility receives new product to top off the tank.
Special Risk Considerations:

There are three special facilities located within the 0.4 mile vulnerability zone:

Door County Memorial Hospital       Sturgeon Bay Schools
323 S. 18th Ave                                1230 Michigan St
920-743-5566                                1414 Rhode Island St

Vulnerability Zone Initial Screening (EPA Credible Worst-Case Scenario):
(CAMEO Vulnerability Zone Modeling Parameters - 3.4 mph wind, atmospheric stability factor F, rural (open) terrain, ground level continuous (10 min.-gas, 1 min.-liquid) total release, physical state – gas or liquid, Level of Concern: 1/10th IDLH)

Vulnerability Zone > 2.2 miles – Chlorine - CAS #: 07664-41-7
Amount released – full bulk tank (see “amount at risk” in Section 3)

Vulnerability Zone Reevaluation Scenario:
(CAMEO Vulnerability Zone Modeling Parameters – 11.9 mph wind, atmospheric stability factor D, urban terrain, ground level continuous (10 min.-gas, 1 min.-liquid) most likely quantity released, physical state – gas or liquid, Level of Concern: 1/10th IDLH)

Estimate of Population Affected: 1,082 to a seasonal average of 5,000 persons.

Conclusions:

The facility has the potential for a small release due to the quantity of Chlorine utilized. The most likely scenario is a smaller release from a line or valve leak.

The lead time for a hazmat incident could be from 0 – 30 minutes. As a result, this short time may not allow for a safe evacuation, especially when extremely toxic chemical fumes are involved. An evacuation under these considerations may expose the population to dangerous toxic chemicals and the decision may be made to shelter in place. Preferred areas for protective sheltering would be interior hallways, rooms without windows or exterior doors, enclosed stairways and rooms on the side of the building away from where the hazard is approaching. Doors, windows and other potential air leaks should be sealed up to prevent toxic fumes from entering.

Experience indicates that shelter space would need to be provided for only 30% of the population within the initial isolation and evacuation zones and the remaining 7% would seek shelter with family and friends outside of the risk zone.

9. Warning System:

On-site:

There is an on-site detection system for a Chlorine release with a notification feature. The facility does have a type of alarm system for break-ins but not fire.
Off-site:

The warning system will be operated in accordance with the County Warning Plan, which supports the ERP. Other warning systems that may be employed include the use of law enforcement vehicles using public address systems and door-to-door contact of residents by emergency responders.

10. Accessibility Concerns: S. 12th is a two lane residential road. There are no accessibility concerns.

11. Special Facilities Affected: Vulnerability Zone: Chlorine = 2.2 miles

<table>
<thead>
<tr>
<th>SPECIAL FACILITY NAME</th>
<th>ADDRESS</th>
<th>PHONE</th>
<th>POPULATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Door County Memorial Hospital</td>
<td>323 S. 18th Ave</td>
<td>920-743-5566</td>
<td>500</td>
</tr>
<tr>
<td>Sturgeon Bay High/Middle School</td>
<td>1230 Michigan St</td>
<td>920-746-2800</td>
<td>500</td>
</tr>
<tr>
<td>Sunrise School</td>
<td>1414 Rhode Island St</td>
<td>920-746-2814</td>
<td>150</td>
</tr>
</tbody>
</table>

12. Population Protection:

The determination to Shelter In-Place or Evacuate would be made by the Incident Commander, as appropriate.

The lead-time for a hazardous material incident could be from 0-30 minutes. As a result, this short amount of time may not allow for a safe evacuation, especially when extremely toxic chemical fumes are involved. An evacuation under these conditions may expose the population to dangerous toxic chemicals. A decision to Shelter In-Place must then be considered.

Shelter In-Place:

Preferred areas for protective sheltering would be interior hallways, rooms without windows or exterior doors, enclosed stairways and rooms on the side of the building away from where the hazard is approaching.

Protective measures may include any or all of the following:

- closing and locking all doors and windows
- sealing cracks around doors and windows with duct tape or wet towels
- Turning off all air circulation systems (heating, air conditioning, vent fans, fireplace, clothes dryers, etc...)

Evacuation:

If evacuation is deemed appropriate, then experience indicates that shelter space would need to be provided for approximately 30% of the population within the initial isolation and evacuation zones. The remaining 70% can be expected to seek shelter with family and friends outside the risk area.
Roles and responsibilities relative to evacuation and sheltering may be found in the Door County Emergency Response Plan, Emergency Support Function 1 (ESF-1) - Transportation.

13. Transportation Information:

The facility primarily receives its supply of chemicals from Green Bay, WI, and South of Green Bay. Deliveries would come via Highway 42/57 from the south.

14. Other Considerations:

Fire Potential and Consequences:

Fire Department personnel must wear full PPE during fire operations due to Chlorine on site.

Surrounding Area and Lines of Communication:

Industrial / Commercial / Residential

Environmental Issues (initial): Prevent entry into water intakes and waterways.

Other Jurisdictions affected:

A large incident involving the Chlorine would affect other Door County municipalities.

15. Limits of Liability:

The following is a copy (combination of CAMEO, ALOHA, and MARPLOT) of the Limitation of Liability statement found in the CAMEO, Version 2.0, ALOHA Version 5.1, and MARPLOT Version 2.0 manuals. This should be considered as part of this Planner's Limitation of Liability and gives him equal coverage as provided to the United States Government.

"Limitation of Liability - The United States Government has used its best effort to deliver complete data incorporated into CAMEO and ALOHA. Nevertheless, the United States Government and the National Safety Council do not warranty accuracy or completeness, are not responsible for errors and omissions, and are not liable for any direct, indirect, or consequential damages flowing from the recipient's use of CAMEO, ALOHA, and MARPLOT.

The CAMEO, ALOHA, and MARPLOT software are being distributed "as is" and neither the United States Government nor the National Safety Council makes any warranty claims, either express or implied, with respect to the CAMEO, MARPLOT, or ALOHA software, their quality, accuracy, completeness, performance, merchantability, or fitness for any intended purpose.

Indemnification - The recipient shall indemnify and save harmless the United States and the National Safety Council and their agents and employees against any and all loss,
damage, claim, or liability whatsoever, due to personal injury or death, or damage to property of others directly or indirectly due to the use by the recipient, including failure to comply with the provisions of the National Safety Council order form."

16. **References:**


17. **Distribution List:**

1) Facility
2) Fire Department of Jurisdiction – Sturgeon Bay Fire Department
3) Wisconsin Emergency Management Regional Office
4) Door County Emergency Management

18. **Attachments:**

1) Safety Data Sheets (SDS) for EHS Chemicals
2) Vulnerability Zone and Transportation Route Map(s)
3) Facility Layout and Selected Information
Chlorine

Dyne Co. Data Sheet 3-1952

The use of the diagrams and other matters contained in this data sheet is at the user's own risk. The manufacturer assumes no responsibility for the use of these materials or for any claims made by users of these materials.

This data sheet provides information on the use of chlorine in drinking water treatment. It includes information on the chemical properties of chlorine, its uses, and safety precautions.

- Chlorine is a powerful oxidizing agent used for disinfection in water treatment.
- It reacts with organic materials to form chlorinated compounds.
- Proper handling and storage are crucial to prevent accidents.

Storage:

- Store chlorine in a cool, dry, well-ventilated area.
- Keep containers tightly closed.
- Do not store near heat or open flames.

Safety Precautions:

- Use personal protective equipment when handling chlorine.
- Avoid skin contact and inhalation of chlorine gas.
- Provide proper ventilation when chlorine is used.
- In case of eye contact, rinse with water for at least 15 minutes.
- In case of skin contact, wash with soap and water.
- In case of ingestion, do not induce vomiting.

Chemical Properties:

- Chlorine is highly reactive and can react with many substances.
- It forms strong acids and alkalis.
- Chlorine can react with organic matter to form toxic compounds.

Technical Specifications:

- Chlorine concentration 10%.
- Density 1.54g/cm³ at 20°C.
- Boiling point -34°C.
- Melting point -101°C.

Additional Information:

- Chlorine is a corrosive substance and should be handled with care.
- Chlorine gas can cause respiratory irritation and nausea.
- Chlorine is an irritant to the eyes, skin, and respiratory tract.

Table: Chlorine Concentration

<table>
<thead>
<tr>
<th>Concentration</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>10%</td>
<td>1 L</td>
</tr>
</tbody>
</table>

Note: This data sheet is intended for professional use only. It is not a comprehensive guide and should not be used for educational purposes without proper supervision.

Sturgeon Bay Utilities Quincy Well #6- Off-Site Plan

Door County
### Chlorine

**Safety Data Sheet F-4500**

**The product contains or is used in combination with: 40 CFR 351.1(a), Hazard Communication, Title 29, Code of Federal Regulations.**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Skin and Eye Irritation</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Inhalation Exposure</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Reproductive</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Toxicity</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Flammability</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Health Effects</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Chemical Stability</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Physical Stability</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Carcinogenicity</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Other Information</strong></td>
<td></td>
</tr>
</tbody>
</table>

**Other**

- **Color:**
- **Odor:**
- **Odor Threshold:**
- **Flammable Limit:**
- **Flash Point:**
- **Refractive Index:**
- **Solubility:**
- **Density:**
- **Transport Data:**
- **Environmental Data:**
- **Other Data:**

**Precautionary Measures**

- **Exposure Control:**
- **Personal Protection:**
- **First Aid Measures:**
- **Spill/泄漏 Response:**
- **Disposal:**
- **Hazardous Combinations:**
- **Technical Information:**
- **Toxicological Information:**
- **Precautions for Users:**
- **Other Information:**

**Control Measures**

- **Ventilation:**
- **Fire-fighting Measures:**
- **Accidental Release Measures:**
- **Stability and Reactivity:**
- **Handling:**
- **Other Information:**

**Other Information**

- **Shipping and Handling:**
- **Handling Precautions:**
- **Storage Precautions:**
- **Disposal:**
- **Interactions:**
- **Investigations:**

**Other Data**

- **Phrases to be Avoided:**
- **Further Information:**
- **Other Information:**

**Hazardous Ingredients**

- **Hazardous Substance:**
- **Description:**
- **Identity:**
- **CAS Number:**
- **Physical Properties:**
- **Chemical Properties:**
- **Health Effects:**
- **First Aid Measures:**
- **Fire-fighting Measures:**
- **Spillage Response Measures:**
- **Disposal:**
- **Other Information:**

**Technical Information**

- **Trade Name:**
- **Supplier:**
- **Further Information:**

**Other Information**

- **Guidance:**
- **Global Harmonized System:**
- **Safety Data Sheet:**
- **Other Information:**

**Hazardous Combinations**

- **Hazardous Substances:**
- **Combustibility:**
- **Stability:**
- **Reactivity:**
- **Other Information:**

**Toxicological Information**

- **Toxicity:**
- **Exposure:**
- **First Aid Measures:**
- **Fire-fighting Measures:**
- **Spillage Response Measures:**
- **Disposal:**
- **Other Information:**

**Precautions for Users**

- **Safety Precautions:**
- **Personal Protection:**
- **Fire-fighting Measures:**
- **Spillage Response Measures:**
- **Disposal:**
- **Other Information:**

**Other Information**

- **Guidance:**
- **Global Harmonized System:**
- **Safety Data Sheet:**
- **Other Information:**

**Handling Precautions**

- **Handling:**
- **First Aid Measures:**
- **Fire-fighting Measures:**
- **Spillage Response Measures:**
- **Disposal:**
- **Other Information:**

**Storage Precautions**

- **Storage:**
- **First Aid Measures:**
- **Fire-fighting Measures:**
- **Spillage Response Measures:**
- **Disposal:**
- **Other Information:**

**Disposal**

- **Disposal:**
- **Other Information:**

**Interactions**

- **Interactions:**
- **Combustibility:**
- **Stability:**
- **Reactivity:**
- **Other Information:**

**Guidance**

- **Guidance:**
- **Global Harmonized System:**
- **Safety Data Sheet:**
- **Other Information:**

**Global Harmonized System**

- **GHS Classification:**
- **GHS Pictograms:**
- **GHS Signal Word:**
- **GHS Hazard Statements:**
- **GHS Precautionary Statements:**
- **GHS Safety Data Sheet:**
- **GHS Other Information:**

**Safety Data Sheet**

- **Chemical Name:**
- **Synonyms:**
- **Product Information:**
- **Other Information:**

**Other Information**

- **Guidance:**
- **Global Harmonized System:**
- **Safety Data Sheet:**
- **Other Information:**
# Chlorine Safety Data Sheet

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS Number</th>
<th>Physical State</th>
<th>Melting Point</th>
<th>Boiling Point</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chlorine</td>
<td>7782-50-5</td>
<td>Liquid</td>
<td>-286°C</td>
<td>132°C</td>
</tr>
</tbody>
</table>

## Health Effects
- Inhalation: Immediate effects include headache, dizziness, nausea, vomiting, and diarrhea. Prolonged exposure can lead to respiratory distress, pulmonary edema, and death.
- Skin Contact: May cause irritation and burns. Avoid contact with skin and eyes.
- Eye Contact: Causes severe irritation, burns, and ulceration. Immediate medical attention is required.

## Physical Properties
- Color: Colorless gas
- Odor: Strong and pungent
- Odor Threshold: Not applicable (immediately dangerous to life and health)

## Storage and Handling
- Store in a cool, dry place.
- Avoid contact with incompatible materials such as strong bases and reducing agents.

## Fire and Extinguishment
- Extinguishment: Use water spray to cool containers. Do not use water if the fire involves the container or is of a size that cannot be handled safely.

## Additional Information
- Chlorine is highly reactive and can form highly toxic compounds with certain materials.
- Always wear appropriate personal protective equipment when handling chlorine.

## Regulatory Information
- Chlorine is subject to regulation under the Clean Air Act and the Emergency Planning and Community Right-to-Know Act.

The information is not legally binding and is intended for informational purposes only. Always consult local, state, and federal laws and regulations for compliance.
ATTACHMENT 2) VULNERABILITY ZONE
ATTACHMENT 2) – TRANSPORTATION ROUTE MAP

ATTACHMENT 3 – FACILITY PICTURES
Sturgeon Bay Utilities
Martin Park Well #7
112231
Off-Site Emergency Plan Review Guide and Index

1. Facility Identification Page 3
2. Facility Coordinator / Alternate Coordinator Page 3
3. Chemicals on Site Page 3
4. Primary Emergency Responders Page 4
5. Resources Available Page 4
7. General Information and Assumptions (Disclaimer) Page 5
8. Hazard Analysis Page 6
9. Warning System Page 8
10. Accessibility Concerns Page 8
11. Special Facilities Affected Page 8
12. Population Protection Page 8
13. Transportation Information Page 9
14. Other Considerations Page 9
15. Limits of Liability Page 9
16. References Page 10
17. Distribution List Page 10
18. Attachments:
   1) Safety Data Sheets (SDS) for EHS Chemicals Page 11
   2) Vulnerability Zone and Transportation Route Map(s) Page 21/22
   3) Facility Layout and Selected Information Page 24
Sturgeon Bay Utilities Martin Park Well #7 – Off-Site Plan

1. 220 Pennsylvania St.
    Sturgeon Bay, WI 54235
    920 746-2820
    WEM ID Number: 112231

2. **Facility Coordinator:**
   Cliff White
   Operations Manager
   920-746-2820 (O)
   920-493-4102 (M)

   **Alternate Coordinator:**
   Joseph Potier
   Department Supervisor
   920-743-3210 (O)
   920-333-0574 (M)

3. **Chemicals on site:**

   **Extremely Hazardous Substances (EHS)**

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name - Trade Name</th>
<th>Max Amount (Pounds)</th>
<th>Amount at Risk (Pounds)</th>
</tr>
</thead>
<tbody>
<tr>
<td>7782-50-5</td>
<td>Chlorine (Liquefied Gas)</td>
<td>450</td>
<td>450</td>
</tr>
<tr>
<td></td>
<td>UN#: 1017 // NFPA: H4-F0-I0-S-OX</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><em><em>Vulnerability Zone</em> = 2.2 miles</em>*</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><em>(Based on Reevaluation Scenario see Section 8)</em></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

   Vulnerability zone is based on the EPA Technical Guidance for Hazardous Analysis as calculated by CAMEO. See Section 7 for more information.

   **Hazardous Chemicals (HC):** Numerous other chemicals.
4. Primary Emergency Responders:

Sturgeon Bay Fire Department ................................................................. 911
Emergency Services ............................................................................. 911
Sturgeon Bay Police Department ......................................................... 911

5. Resources Available:

**ON-SITE:** N/A

**OFF-SITE:**
Mobile absorbent kits, spill kits, PPE kits with respirators available at WWTP
Sturgeon Bay Fire Department
Door County Emergency Services
Sturgeon Bay Utilities Martin Park Well #7 – Off-Site Plan

WI State Regional Hazardous Material Emergency Response Team
- Activated by Door County Emergency Management. 1-2 hr. ETA

TECHNICAL:

Infotrac 800 535-5053
WI Department of Agriculture 608 266 3232
Chemtrec 800 424 9300
National Response Center 800 424 8802

SUPPORT AVAILABLE AT FACILITY (OFF-SITE):
Chemical Resistant Gloves
Chemical Resistant Boots Hardhats
Chemical Eye Protection Aprons
Dry Chemical Fire Extinguisher Halogen Extinguisher
First Aid Kits Portable Power Supply
PH Meter
Combustible Gas Indicator Oxygen Concentration Indicator
Organic Vapor Monitor Toxic Gas Monitor

6. Emergency Reporting Requirement:

Section 304: Emergency Notification of Release.

Emergency Release Notification - SECTION 304 and s. 323.60, Wis. Stats., requires the owner or operator of a facility to immediately provide verbal notification to the appropriate governmental entities; National Response Center (NRC) at 800-424-8802, Wisconsin Emergency Management (WEM) at 800-943-0003, menu option #1, and the Local Emergency Planning Committee (LEPC) at 920-832-7101, that a release of a:

Comprehensive Environmental Response Compensation and Liability Act (CERCLA) hazardous substance (HS) or Emergency Planning and Community Right to Know Act (EPCRA) extremely hazardous substance (EHS) has occurred, which meets or exceeds the listed reportable quantity (RQ), when the release goes off-site. This is commonly referred to as the federal substance release reporting law.

NOTE: EPA has written that a release need not result in actual exposure to persons off-site to require Sec. 304 Notification; the potential for exposure off-site is sufficient.

7. GENERAL INFORMATION AND ASSUMPTIONS (Disclaimer)

The vulnerability zones set forth in this plan are based on the Environmental Protection Agency’s (EPA’s) Technical Guidance for Hazards Analysis. The zones (Listed in Section 8. Hazard Analysis – Initial Screening - EPA Credible Worst Case Analysis) are based on a credible worst-case scenario and identify the potential area for impact should an air-borne release of an Extremely Hazardous Substance (EHS) chemical occur. A re-evaluation scenario with more realistic parameters has also been computed. Parameters used for both scenarios have been described as part of the Hazard Analysis Summary in

August 2019
Section 8.

CAMEO Suite software was used in the preparation of vulnerability zones. It should be noted that CAMEOfm cannot compute zones greater than 10 miles or less than 0.1 miles. Thus, results that fall into these situations will be noted as “>10 miles” or “<0.1 miles.”

The field Incident Commander shall determine the actual response to an incident and the affected area may vary from the planning vulnerability zone identified in this plan. Depending on wind speed and direction, the amount of material released and other pertinent factors, the ACTUAL vulnerability zone may be smaller, and in some instances larger, than the credible worst-case vulnerability zone identified herein.

The vulnerability zones determined in this plan are for general planning purposes only.

8. Hazard Analysis:

Facility Description:

Sturgeon Bay Utilities operates this well site located at 220 Pennsylvania St. The building is concrete block/brick construction and is secured at all times. There are no employees on site. The facility is a water pumping/purification operation. The extremely hazardous chemical on site is Chlorine. There are two (2) 150 lb cylinders on site, one is hooked up to the system and one is in storage.

There is no on-site monitoring system for a chlorine release. A worst case scenario would involve a valve breaking off of one cylinder during the off-loading process releasing 150 lbs. of Chlorine. This would create a vulnerability zone of 0.4 miles. The chlorine is delivered by Hawkins Chemical Company out of Fon du Lac, WI. The delivery route travels north on Hwy 42/57, Business 42/57 and residential streets.

The vulnerability zone was developed using the CAMEO computer program.

Seasonal Information:

Chlorine is maintained on site year round. The Chlorine cylinder may be full at any time during the year.

Greatest Potential for Release:

The greatest potential for a release of Chlorine would be an accident during the change of cylinders. There is always the possibility of a release when the facility receives new product to top off the tank.
Special Risk Considerations:

There are three special facilities located within the 0.4 mile vulnerability zone:

Door County Government Center     Sturgeon Bay Municipal Building
421 Nebraska St                               421 Michigan Street
920-746-2211                                920-746-2900

Boys and Girls Club
55 S. 3rd Ave
920-818-1046

Vulnerability Zone Initial Screening (EPA Credible Worst-Case Scenario):
(CAMEO Vulnerability Zone Modeling Parameters – 3.4 mph wind, atmospheric stability factor F, rural (open) terrain, ground level continuous (10 min.-gas, 1min.-liquid) total release, physical state – gas or liquid, Level of Concern: 1/10\textsuperscript{th} IDLH)

Vulnerability Zone > 2.2 miles – Chlorine - CAS #: 07664-41-7
Amount released – full bulk tank (see “amount at risk” in Section 3)

Vulnerability Zone Reevaluation Scenario:
(CAMEO Vulnerability Zone Modeling Parameters – 11.9 mph wind, atmospheric stability factor D, urban terrain, ground level continuous (10 min.-gas, 1min.-liquid) most likely quantity released, physical state – gas or liquid, Level of Concern: 1/10\textsuperscript{th} IDLH)

Estimate of Population Affected: 726 to a seasonal average of 5,000 persons.

Conclusions:

The facility has the potential for a small release do to the quantity of Chlorine utilized. The most likely scenario is a smaller release from a line or valve leak.

The lead time for a hazmat incident could be from 0 – 30 minutes. As a result, this short time may not allow for a safe evacuation, especially when extremely toxic chemical fumes are involved. An evacuation under these considerations may expose the population to dangerous toxic chemicals and the decision may be made to shelter in place. Preferred areas for protective sheltering would be interior hallways, rooms without windows or exterior doors, enclosed stairways and rooms on the side of the building away from where the hazard is approaching. Doors, windows and other potential air leaks should be sealed up to prevent toxic fumes from entering.

Experience indicates that shelter space would need to be provided for only 30% of the population within the initial isolation and evacuation zones and the remaining 7% would seek shelter with family and friends outside of the risk zone.
9. **Warning System:**

   **On-site:**

   There is no on-site detection system for a *Chlorine* release. The facility does have a type of alarm system for break-ins but not fire. Consequently, any notification of a chemical release will probably come as a result of an actual release and not a false alarm. The facility relies on verbal and telephone on site emergency notification.

   **Off-site:**

   The warning system will be operated in accordance with the County Warning Plan, which supports the ERP. Other warning systems that may be employed include the use of law enforcement vehicles using public address systems and door-to-door contact of residents by emergency responders.

10. **Accessibility Concerns:** Pennsylvania St is a two lane residential road with no access issues.

11. **Special Facilities Affected:** Vulnerability Zone: *Chlorine* = 2.2 miles

<table>
<thead>
<tr>
<th>SPECIAL FACILITY NAME</th>
<th>ADDRESS</th>
<th>PHONE</th>
<th>POPULATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Door County Government Center</td>
<td>421 Nebraska St</td>
<td>920-746-2200</td>
<td>200</td>
</tr>
<tr>
<td>Sturgeon Bay Municipal Building</td>
<td>421 Michigan St</td>
<td>920-746-2900</td>
<td>500</td>
</tr>
<tr>
<td>Boys and Girls Club</td>
<td>55 S. 3rd Ave</td>
<td>920-818-1046</td>
<td>100</td>
</tr>
</tbody>
</table>

12. **Population Protection:**

   The determination to Shelter In-Place or Evacuate would be made by the Incident Commander, as appropriate.

   The lead-time for a hazardous material incident could be from 0-30 minutes. As a result, this short amount of time may not allow for a safe evacuation, especially when extremely toxic chemical fumes are involved. An evacuation under these conditions may expose the population to dangerous toxic chemicals. A decision to Shelter In-Place must then be considered.

   **Shelter In-Place:**

   Preferred areas for protective sheltering would be interior hallways, rooms without windows or exterior doors, enclosed stairways and rooms on the side of the building away from where the hazard is approaching.

   Protective measures may include any or all of the following:

   - closing and locking all doors and windows
   - sealing cracks around doors and windows with duct tape or wet towels
   - Turning off all air circulation systems (heating, air conditioning, vent fans, fireplace,
Evacuation:

If evacuation is deemed appropriate, then experience indicates that shelter space would need to be provided for approximately 30% of the population within the initial isolation and evacuation zones. The remaining 70% can be expected to seek shelter with family and friends outside the risk area.

Roles and responsibilities relative to evacuation and sheltering may be found in the Door County Emergency Response Plan, Emergency Support Function 1 (ESF-1) - Transportation.

13. Transportation Information:

The facility primarily receives its supply of chemicals from Green Bay, WI, and South of Green Bay. Deliveries would come via Highway 42/57 from the south.

14. Other Considerations:

Fire Potential and Consequences:

Fire Department personnel must wear full PPE during fire operations due to Chlorine on site.

Surrounding Area and Lines of Communication:

Industrial / Commercial / Residential

Environmental Issues (initial): Prevent entry into water intakes and waterways.

Other Jurisdictions affected:

A large incident involving the Chlorine would affect other Door County municipalities.

15. Limits of Liability:

The following is a copy (combination of CAMEO, ALOHA, and MARPLOT) of the Limitation of Liability statement found in the CAMEO, Version 2.0, ALOHA Version 5.1, and MARPLOT Version 2.0 manuals. This should be considered as part of this Planner's Limitation of Liability and gives him equal coverage as provided to the United States Government.

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16. References:


17. Distribution List:

1) Facility
2) Fire Department of Jurisdiction – Sturgeon Bay Fire Department
3) Wisconsin Emergency Management Regional Office
4) Door County Emergency Management

18. Attachments:

1) Safety Data Sheets (SDS) for EHS Chemicals
2) Vulnerability Zone and Transportation Route Map(s)
3) Facility Layout and Selected Information
Chlorine

<table>
<thead>
<tr>
<th>Data Sheet</th>
<th>4400</th>
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<tbody>
<tr>
<td>Chlorine</td>
<td>1</td>
</tr>
<tr>
<td>Action</td>
<td>2</td>
</tr>
<tr>
<td>Pesticide</td>
<td>3</td>
</tr>
<tr>
<td>2000</td>
<td>4</td>
</tr>
<tr>
<td>1000</td>
<td>5</td>
</tr>
</tbody>
</table>

**Health Hazards**:

- Irritation of eyes, nose, throat, and lungs.
- Skin irritation.
- Inhalation may cause coughing, difficulty breathing, and lung damage.
- Direct contact with skin or eyes can cause severe burns.

**First Aid Measures**:

- For eye contact, flush immediately with ample amounts of water for at least 15 minutes.
- For skin contact, wash thoroughly with soap and water.
- For clothing, remove and wash with soap and water.
- For breathing difficulties, move to fresh air immediately.
- If symptoms persist, seek medical attention.

**Precautions**:

- Keep out of reach of children and non-authorized personnel.
- Ventilate and provide a means of escape in case of fire.

**Emergency Response**:

- Call emergency services if needed.
- Use proper protective equipment when handling the chemical.

**Shipping and Handling**:

- UN No. 2000, 8 Class, Non-Flammable Gases
- First-Digit UN No. 2000
- Special UN No. 2000
- 1.2 Special Provisions

**Transportation**:

- For transport, follow all local, state, and federal regulations.

**Other Information**:

- KEEP OUT OF REACH OF CHILDREN.
- FOR EMERGENCY CONTACT, CALL...
### Chlorine

**Safety Data Sheet P-436**


- *Chemical Identification:
- *Structure or Formula: $\text{Cl}_2$
- *CAS Number: 7782-50-5
- *Physical Data:
- *Appearance: Colorless gas
- *Odor: Smartphone
- *Odor Threshold: 0.5 ppm
- *Vapor Density: 1.05
- *Solubility in Water: 1000 ppm
- *Boiling Point: 114°C
- *Melting Point: -101°C
- *Density: 1.97 g/L at 20°C

### Hazards

#### Skin Contact:
- *Initial Symptoms:
  - *Local irritation:
  - *Acute exposure:
- *Inhalation:
  - *Initial symptoms:
  - *Chronic exposure:
- *Eye Contact:
  - *Initial symptoms:
  - *Chronic exposure:
- *Ingestion:
  - *Initial symptoms:
  - *Chronic exposure:

### First Aid Measures

#### Skin Contact:
- *Initial Treatment:
  - *Wash Skin with Soap and Water
  - *Remove contaminated clothing
- *Further Medical Treatment:
  - *Refer to physician

#### Inhalation:
- *Initial Treatment:
  - *Move victim to fresh air
  - *Seal off area
- *Further Medical Treatment:
  - *Refer to physician

#### Eye Contact:
- *Initial Treatment:
  - *Flush eyes with large amounts of water
  - *Seek medical attention

#### Ingestion:
- *Initial Treatment:
  - *Do not induce vomiting
  - *Seek medical attention

### Fire Fighting Measures

- *Extinguishing Media:
  - *Water
  - *Foam
  - *Powder
- *Special Fire-Fighting Procedures:
  - *Avoid fire-generated chlorine gas
  - *Extinguish any uncontrolled fires

### Spill or Leak Response

- *Personal Protection:
  - *Self-contained breathing apparatus
  - *Chemical resistant gloves
- *Equipment and Handling:
  - *Do not enter uncontrolled areas
  - *Avoid inhalation of chlorine gas

### Containment and Cleaning

- *Containment:
  - *Use absorbent material
  - *Neutralize with water
- *Cleaning:
  - *Neutralize with sodium bicarbonate
  - *Use vacuum cleaner

### Personal Protective Equipment

- *Eye Protection:
  - *Chemical resistant glasses
- *Respiratory Protection:
  - *Self-contained breathing apparatus
- *Hand Protection:
  - *Chemical resistant gloves

### Additional Measures

- *Handling:
  - *Avoid inhalation
  - *Avoid contact with skin and eyes
- *Storage:
  - *Clear of ignition sources
  - *Secure from unauthorized access

### Regulatory Information

- *OSHA Hazard Communication:
  - *Chemical Exposure Limits
  - *Training Requirements

---

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Temperature</td>
<td>114°C</td>
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<tr>
<td>Melting</td>
<td>-101°C</td>
</tr>
<tr>
<td>Density</td>
<td>1.97 g/L</td>
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<tr>
<td>Solubility</td>
<td>1000 ppm</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>1.05</td>
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</tbody>
</table>

---

*Note: The information above is a simplified representation and should not be used as a substitute for a detailed SDS.*
### Chlorine Safety Data Sheet P-485E

#### Usage/Storage Precautions

1. This product is intended for use in water treatment applications. Improper use may result in damage to equipment or personal injury. Ensure proper ventilation and use in a well-ventilated area.

2. Avoid contact with skin or eyes. Wear appropriate personal protective equipment (PPE) including gloves, goggles, and a respirator.

#### Fire/Firefighting Precautions

1. Chlorine is a strong oxidizing agent and can react violently with reducing agents. Use dry powder as an extinguishing agent.

#### Storage

1. Store in a cool, dry place away from incompatible materials. Keep away from heat, sparks, and flame.

#### Physical Data

- **PH**: 1.0 to 1.2
- **Density**: 1.51 g/cm³
- **Flash Point**: 40°C
- **Boiling Point**: 148°C
- **Vapor Pressure**: 0.1 mm Hg at 20°C
- **Melting Point**: -101°C
- **Reactivity**: corrosive
- **Odor**: pungent
- **Specific Gravity**: 2.83

#### Health Information

- **Acute Exposure Effects**: skin irritation, respiratory irritation.
- ** Chronic Exposure Effects**: skin and eye irritation, nausea, vomiting.

#### Dispensing and Handling

1. Dispense in appropriate containers and use in a well-ventilated area.

#### Other Precautions

- Use appropriate PPE and follow proper handling procedures to avoid contamination.

#### Notes

- Avoid direct contact with skin and eyes.
- Keep away from food and drink.

---

This document contains chemical safety information for chlorine. Always consult the latest edition of the Material Safety Data Sheet (MSDS) for the most current information and safety precautions.
**Chlorine**

**Safety Data Sheet F-4630**

**Title**: Acetic Acid, 50% in Water (CAS # 64-19-7), Hazard Communication

**Date Revised**: August 2019

**Company**: Sturgeon Bay Utilities

**Use**: Martin Park Well #7- Off-Site Plan

**Location**: Door County

### Table

<table>
<thead>
<tr>
<th>Substance</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetic Acid</td>
<td>50% in Water</td>
</tr>
</tbody>
</table>

**Other Information**

**Warning**: Acetic acid is a highly corrosive liquid. It can cause serious burns to skin and eyes. It can also react violently with strong bases and some organic materials. Avoid contact with skin, eyes, and clothing. Wash affected areas with plenty of water and soap. If you spill acetic acid, flush with plenty of water and soap. If you inhale acetic acid vapor, move to fresh air and call a poison control center. If you get acetic acid on your skin, wash with soap and water. If you get acetic acid in your eyes, flush with plenty of water and soap. If you think you have been poisoned, call a poison control center or seek medical attention immediately.

**Precautions for Use**: Use appropriate personal protective equipment when handling acetic acid. Avoid contact with skin, eyes, and clothing. Wash affected areas with plenty of water and soap. If you spill acetic acid, flush with plenty of water and soap. If you inhale acetic acid vapor, move to fresh air and call a poison control center. If you get acetic acid on your skin, wash with soap and water. If you get acetic acid in your eyes, flush with plenty of water and soap. If you think you have been poisoned, call a poison control center or seek medical attention immediately.

**Emergency Information**: If you think you have been poisoned, call a poison control center or seek medical attention immediately.

**Material Safety Data Sheet**: For more information, please refer to the Material Safety Data Sheet for Acetic Acid, 50% in Water (CAS # 64-19-7), located at the Sturgeon Bay Utilities Martin Park Well #7- Off-Site Plan.
ATTACHMENT 2) VULNERABILITY ZONE
ATTACHMENT 3) – TRANSPORTATION ROUTE MAP
Sturgeon Bay Utilities
Duluth Ave Well #8
123931
Sturgeon Bay Utilities Duluth Well #8 - Off-Site Plan

Off-Site Emergency Plan Review Guide and Index

1. Facility Identification Page 3
2. Facility Coordinator / Alternate Coordinator Page 3
3. Chemicals on Site Page 3
4. Primary Emergency Responders Page 4
5. Resources Available Page 4
7. General Information and Assumptions (Disclaimer) Page 5
8. Hazard Analysis Page 6
9. Warning System Page 8
10. Accessibility Concerns Page 8
11. Special Facilities Affected Page 8
12. Population Protection Page 8
13. Transportation Information Page 9
14. Other Considerations Page 9
15. Limits of Liability Page 9
16. References Page 10
17. Distribution List Page 10
18. Attachments:
   1) Safety Data Sheets (SDS) for EHS Chemicals Page 11
   2) Vulnerability Zone and Transportation Route Map(s) Page 21/22
   3) Facility Layout and Selected Information Page 24
1. 236 South Duluth Ave  
   Sturgeon Bay, WI 54235  
   920 746-2820  
   WEM ID Number: 123931

2. **Facility Coordinator:** Cliff White  
   Operations Manager  
   920-746-2820 (O)  
   920-493-4102 (M)

   **Alternate Coordinator:** Joseph Potier  
   Department Supervisor  
   920-743-3210 (O)  
   920-333-0574 (M)

3. **Chemicals on site:**

   **Extremely Hazardous Substances (EHS)**

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name -Trade Name</th>
<th>Max Amount (Pounds)</th>
<th>Amount at Risk (Pounds)</th>
</tr>
</thead>
<tbody>
<tr>
<td>7782-50-5</td>
<td><strong>Chlorine</strong> (Liquefied Gas)</td>
<td>450</td>
<td>450</td>
</tr>
</tbody>
</table>

   \[
   \text{UN#: 1017 // NFPA: H4-F0-I0-S-OX} \\
   \text{Vulnerability Zone* = 2.2 miles} \\
   *(Based on Reevaluation Scenario see Section 8)\]

   Vulnerability zone is based on the EPA Technical Guidance for Hazardous Analysis as calculated by CAMEO. See Section 7 for more information.

   **Hazardous Chemicals (HC):** Numerous other chemicals.
4. **Primary Emergency Responders:**

   Sturgeon Bay Fire Department ................................................................. 911
   Emergency Services................................................................................ 911
   Sturgeon Bay Police Department......................................................... 911

5. **Resources Available:**

   **ON-SITE:** N/A

   **OFF-SITE:**
   Mobile absorbent kits, spill kits, PPE kits with respirators.
   Sturgeon Bay Fire Department
Sturgeon Bay Utilities Duluth Well #8 – Off-Site Plan

Door County Emergency Services
WI State Regional Hazardous Material Emergency Response Team
- Activated by Door County Emergency Management. 1-2 hr. ETA

**TECHNICAL:**

- Infotrac 800 535-5053
- WI Department of Agriculture 608 266 3232
- Chemtrec 800 424 9300
- National Response Center 800 424 8802

**SUPPORT AVAILABLE AT FACILITY (OFF-SITE):**

- Chemical Resistant Gloves
- Chemical Resistant Boots
- Chemical Eye Protection
- Dry Chemical Fire Extinguisher
- First Aid Kits
- Portable Power Supply
- Combustible Gas Indicator
- Organic Vapor Monitor
- Hardhats
- Aprons
- Halon Extinguisher
- PH Meter
- Oxygen Concentration Indicator
- Toxic Gas Monitor

6. **Emergency Reporting Requirement:**

**Section 304: Emergency Notification of Release.**

*Emergency Release Notification - SECTION 304 and s. 323.60, Wis. Stats.*, requires the owner or operator of a facility to immediately provide verbal notification to the appropriate governmental entities; National Response Center (NRC) at 800-424-8802, Wisconsin Emergency Management (WEM) at 800-943-0003, menu option #1, and the Local Emergency Planning Committee (LEPC) at 920-832-7101, that a release of a:

Comprehensive Environmental Response Compensation and Liability Act (CERCLA) hazardous substance (HS) or Emergency Planning and Community Right to Know Act (EPCRA) extremely hazardous substance (EHS) has occurred, which meets or exceeds the listed reportable quantity (RQ), when the release goes off-site. This is commonly referred to as the federal substance release reporting law.

**NOTE:** EPA has written that a release need not result in actual exposure to persons off-site to require Sec. 304 Notification; the potential for exposure off-site is sufficient.

7. **GENERAL INFORMATION AND ASSUMPTIONS (Disclaimer)**

The vulnerability zones set forth in this plan are based on the Environmental Protection Agency’s (EPA’s) Technical Guidance for Hazards Analysis. The zones (Listed in Section 8. Hazard Analysis – Initial Screening - EPA Credible Worst Case Analysis) are based on a credible worst-case scenario and identify the potential area for impact should an air-borne release of an Extremely Hazardous Substance (EHS) chemical occur. A re-
evaluation scenario with more realistic parameters has also been computed. Parameters used for both scenarios have been described as part of the Hazard Analysis Summary in Section 8.

CAMEO Suite software was used in the preparation of vulnerability zones. It should be noted that CAMEOfm cannot compute zones greater than 10 miles or less than 0.1 miles. Thus, results that fall into these situations will be noted as “>10 miles” or “<0.1 miles.”

The field Incident Commander shall determine the actual response to an incident and the affected area may vary from the planning vulnerability zone identified in this plan. Depending on wind speed and direction, the amount of material released and other pertinent factors, the ACTUAL vulnerability zone may be smaller, and in some instances larger, than the credible worst-case vulnerability zone identified herein.

The vulnerability zones determined in this plan are for general planning purposes only.

8. Hazard Analysis:

Facility Description:

Sturgeon Bay Utilities operates this well site located at 236 South Duluth Ave. The facility is located at the end of a 250 yard single lane paved drive that runs north/south off the 800 block of West Oak St. The facility also added a single lane gravel drive off of Duluth. The building is concrete block/brick construction and is secured at all times. There are no employees on site. The facility is a water pumping/purification operation that utilizes an ozone system. The extremely hazardous chemical on site is Chlorine. There are two (2) 150 lb cylinders on site, one is hooked up to the system and one is in storage.

There is no on-site monitoring system for a chlorine release. A worst case scenario would involve a valve breaking off of one cylinder during the off-loading process releasing 150 lbs. of Chlorine. This would create a vulnerability zone of 0.4 miles. The chlorine is delivered by Hawkins Chemical Company out of Fon du Lac. The delivery route travels north on Hwy 42/57, Business 42/57 and residential streets.

The vulnerability zone was developed using the CAMEO computer program.

Seasonal Information:

Chlorine is maintained on site year round. The Chlorine cylinder may be full at any time during the year.
Greatest Potential for Release:

The greatest potential for a release of Chlorine would be an accident during the change of cylinders. There is always the possibility of a release when the facility receives new product to top off the tank.

Special Risk Considerations:

There are two special facilities located within the 0.4 mile vulnerability zone:

<table>
<thead>
<tr>
<th>Facility</th>
<th>Address</th>
<th>Phone Number</th>
<th>Population</th>
</tr>
</thead>
<tbody>
<tr>
<td>St. John Bosco School</td>
<td>15 N. Elgin Ave</td>
<td>920-743-4144</td>
<td>165 Students</td>
</tr>
<tr>
<td>The Cornerstone</td>
<td>204 N. Duluth Ave</td>
<td>920-746-7550</td>
<td>19 Residents</td>
</tr>
</tbody>
</table>

Vulnerability Zone Initial Screening (EPA Credible Worst-Case Scenario):
(CAMEO Vulnerability Zone Modeling Parameters - 3.4 mph wind, atmospheric stability factor F, rural (open) terrain, ground level continuous (10 min.-gas, 1min.-liquid) total release, physical state – gas or liquid, Level of Concern: 1/10th IDLH)

Vulnerability Zone > 2.2 miles – Chlorine - CAS #: 07664-41-7
Amount released – full bulk tank (see “amount at risk” in Section 3)

Vulnerability Zone Reevaluation Scenario:
(CAMEO Vulnerability Zone Modeling Parameters – 11.9 mph wind, atmospheric stability factor D, urban terrain, ground level continuous (10 min.-gas, 1min.-liquid) most likely quantity released, physical state – gas or liquid, Level of Concern: 1/10th IDLH)

Estimate of Population Affected: 925 to a seasonal average of 5,000 persons.

Conclusions:

The facility has the potential for a small release due to the quantity of Chlorine utilized. The most likely scenario is a smaller release from a line or valve leak.

The lead time for a hazmat incident could be from 0 – 30 minutes. As a result, this short time may not allow for a safe evacuation, especially when extremely toxic chemical fumes are involved. An evacuation under these considerations may expose the population to dangerous toxic chemicals and the decision may be made to shelter in place. Preferred areas for protective sheltering would be interior hallways, rooms without windows or exterior doors, enclosed stairways and rooms on the side of the building away from where the hazard is approaching. Doors, windows and other potential air leaks should be sealed up to prevent toxic fumes from entering.

Experience indicates that shelter space would need to be provided for only 30% of the population within the initial isolation and evacuation zones and the remaining 7% would seek shelter with family and friends outside of the risk zone.
9. **Warning System:**

**On-site:**
There is no on-site detection system for a Chlorine release. The facility does have a type of alarm system for break-ins but not fire. Consequently, any notification of a chemical release will probably come as a result of an actual release and not a false alarm. The facility relies on verbal and telephone on site emergency notification.

**Off-site:**

The warning system will be operated in accordance with the County Warning Plan, which supports the ERP. Other warning systems that may be employed include the use of law enforcement vehicles using public address systems and door-to-door contact of residents by emergency responders.

10. **Accessibility Concerns:** Duluth Ave is two lane road. Oak Street is a two lane road. The access to the well runs south of Oak Street. It is a paved single lane drive.

11. **Special Facilities Affected:** Vulnerability Zone: Chlorine = 2.2 miles

<table>
<thead>
<tr>
<th>SPECIAL FACILITY NAME</th>
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<th>PHONE</th>
<th>POPULATION</th>
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12. **Population Protection:**

The determination to Shelter In-Place or Evacuate would be made by the Incident Commander, as appropriate.

The lead-time for a hazardous material incident could be from 0-30 minutes. As a result, this short amount of time may not allow for a safe evacuation, especially when extremely toxic chemical fumes are involved. An evacuation under these conditions may expose the population to dangerous toxic chemicals. A decision to Shelter In-Place must then be considered.

**Shelter In-Place:**

Preferred areas for protective sheltering would be interior hallways, rooms without windows or exterior doors, enclosed stairways and rooms on the side of the building away from where the hazard is approaching.

Protective measures may include any or all of the following:

- closing and locking all doors and windows
- sealing cracks around doors and windows with duct tape or wet towels
- Turning off all air circulation systems (heating, air conditioning, vent fans, fireplace,
Evacuation:

If evacuation is deemed appropriate, then experience indicates that shelter space would need to be provided for approximately 30% of the population within the initial isolation and evacuation zones. The remaining 70% can be expected to seek shelter with family and friends outside the risk area.

Roles and responsibilities relative to evacuation and sheltering may be found in the Door County Emergency Response Plan, Emergency Support Function 1 (ESF-1) - Transportation.

13. Transportation Information:

The facility primarily receives its supply of chemicals from Green Bay, WI, and South of Green Bay. Deliveries would come via Highway 42/57 from the south.

14. Other Considerations:

Fire Potential and Consequences:

Fire Department personnel must wear full PPE during fire operations due to Chlorine on site.

Surrounding Area and Lines of Communication:

Industrial / Commercial / Residential

Environmental Issues (initial): Prevent entry into water intakes and waterways.

Other Jurisdictions affected:

A large incident involving the Chlorine would affect other Door County municipalities.

15. Limits of Liability:

The following is a copy (combination of CAMEO, ALOHA, and MARPLOT) of the Limitation of Liability statement found in the CAMEO, Version 2.0, ALOHA Version 5.1, and MARPLOT Version 2.0 manuals. This should be considered as part of this Planner's Limitation of Liability and gives him equal coverage as provided to the United States Government.

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3) Facility Layout and Selected Information
Chlorine

Safety Data Sheet F-4740

Acute oral: 1500 mg/kg, Oral: 2.75 mg/L.

Skin and eye contact: 
- Aqueous solution:
  - Mild irritant
  - After contact:
    - Wash eye with large amount of water
    - Remove contaminated clothing

Dermal contact:
- Skin irritant
- Need water and soap
- Remove contaminated clothing

Respiratory irritation:
- No irritation
- Need no special precautions

Physical:
- 1.0 g/mL at 25°C
- 1.04 g/cm³ at 25°C

Solubility:
- 100% (aqueous solution)
- 100% (water)

N-nitrosocompound:
- No

Odor:
- Typical

Unstable decomposition:
- No

Health hazards:
- Skin irritation
- Eye irritation

Toxicological:
- Repeated exposure:
  - Skin irritation
  - Eye irritation

Carcinogenicity:
- No

Other hazards:
- No

Precautionary statements:
- Storage:
  - Keep dry
  - Store in dark

- Disposal:
  - In accordance with local regulations

- Transport:
  - Class 8

- Special precautions:
  - No

Exposure controls:
- Personal protective equipment:
  - Skin protection
  - Eye protection

- Emergency procedures:
  - Spill clean-up

- Fire-fighting:
  - Water mist

- Safety summaries:
  - Extinguishing media:
    - Water mist

- Health effects:
  - Toxic effects:
    - Skin irritation
    - Eye irritation
### Chlorine

**Chemical Name:** Chlorine  
**Common Name:** Chlorine  
**Chemical Formula:** Cl₂  
**Molecular Weight:** 70.9064 g/mol  
**Density:** 1.597 g/cm³ at 0°C and 1 atmosphere  
**Melting Point:** −100.9°C  
**Boiling Point:** −34.0°C

#### Emergency Response Guideline:

<table>
<thead>
<tr>
<th>Emergency Response Guideline</th>
<th>Rationale</th>
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</table>

**Health Hazard Data:**

1. Avoid contact with eyes, skin, and clothing.
2. Wash thoroughly with soap and water.
3. Wear protective gloves and eyewear.

**Physical Hazard Data:**

1. Chlorine is extremely corrosive and can cause severe burns to the skin and eyes.
2. Long-term exposure to chlorine can cause respiratory problems and damage to the respiratory system.

**Precautionary Measures:**

1. Keep away from heat, sparks, and明火．
2. Keep away from flammable materials.
3. Use in a well-ventilated area.

**Legal Information:**

- Listed under the United States TSCA Substances Control Act, Category 1.
- Listed on the United Nations GHS, Category 2C.
- List B (89) of the United Nations GHS, Category 3.

- The document is intended for individuals with expertise in handling chemicals.

- For more information, please contact the nearest Sturgeon Bay Utilities office.

**Chemical Reference:**

- 7447-37-9

**DOT Classification:**

- DOT 2.2

**International Classification:**

- UN 2213

**References:**

- OSHA PEL: 1 ppm
- ACGIH TLV: 1 ppm

**Precautions:**

- In case of skin contact, wash with soap and water.
- In case of eye contact, flush with water for at least 15 minutes.
- In case of inhalation, move to fresh air.
- In case of fire, use water to extinguish.

**Other Information:**

- Chlorine is highly reactive and can form toxic gases.

**Waste and Precautions:**

- Avoid accidental spills and use appropriate containment equipment.

---

**Sturgeon Bay Utilities Duluth Well #8 - Off-Site Plan**

**Door County**

**August 2019**
<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Health Hazards</th>
<th>Precautions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chlorine</td>
<td>Health Hazards</td>
<td>Precautions</td>
</tr>
</tbody>
</table>

Health Hazards:
- Skin irritation
- Eye irritation
- Respiratory irritation
- Excessive exposure may cause serious health effects

Precautions:
- Avoid contact with skin
- Use proper protective clothing
- Ventilation required
- Wash hands after handling

Exposure Control and Personal Protection:
- Use respirators or other PPE as needed
- Maintain proper ventilation

Physical and Chemical Properties:
- Measurement: 1.0231
- Density: 1.5092
- % Purity: 99.9999%

Reactivity:
- Reacts with strong oxidizing agents

Storge:
- Store in a cool, dry place
- Keep away from heat and open flames

Waste Disposal:
- Follow local regulations for disposal

Other Information:
- This product is packaged in a 2000 lb (907 kg) drum.
ATTACHMENT 2) VULNERABILITY ZONE
Sturgeon Bay Utilities
Tacoma Well #10
112243
Off-Site Emergency Plan Review Guide and Index

1. Facility Identification                                             Page 3
2. Facility Coordinator / Alternate Coordinator                    Page 3
3. Chemicals on Site                                                Page 3
4. Primary Emergency Responders                                    Page 4
5. Resources Available                                              Page 4
7. General Information and Assumptions (Disclaimer)                Page 5
8. Hazard Analysis                                                  Page 6
9. Warning System                                                   Page 7
10. Accessibility Concerns                                          Page 8
11. Special Facilities Affected                                     Page 8
12. Population Protection                                           Page 8
13. Transportation Information                                      Page 9
14. Other Considerations                                            Page 9
15. Limits of Liability                                              Page 9
16. References                                                      Page 10
17. Distribution List                                                Page 10
18. Attachments:
   1) Safety Data Sheets (SDS) for EHS Chemicals                   Page 11
   2) Vulnerability Zone and Transportation Route Map(s)          Page 21/22
   3) Facility Layout and Selected Information                     Page 24
Sturgeon Bay Utilities Tacoma Well #10 – Off-Site Plan

1. Tacoma Beach Rd at Clay Banks Rd
   Sturgeon Bay, WI 54235
   920 746-2820
   WEM ID Number: 112243

2. Facility Coordinator:    Alternate Coordinator:
   Cliff White     Joseph Potier
   Operations Manager    Department Supervisor
   920-746-2820 (O)    920-743-3210 (O)
   920-493-4102 (M)    920-333-0574 (M)

3. Chemicals on site:

   **Extremely Hazardous Substances (EHS)**

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name -Trade Name</th>
<th>Max Amount (Pounds)</th>
<th>Amount at Risk (Pounds)</th>
</tr>
</thead>
<tbody>
<tr>
<td>7782-50-5</td>
<td>Chlorine (Liquefied Gas)</td>
<td>450</td>
<td>450</td>
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<tr>
<td></td>
<td>UN#: 1017 // NFPA: H4-F0-I0-S-OX</td>
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<td></td>
<td><strong>Vulnerability Zone</strong> = 2.2 miles</td>
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<td><em>(Based on Reevaluation Scenario see Section 8)</em></td>
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</table>

Vulnerability zone is based on the EPA Technical Guidance for Hazardous Analysis as calculated by CAMEO. See Section 7 for more information.

*Hazardous Chemicals (HC): Numerous other chemicals.*
4. Primary Emergency Responders:

Sturgeon Bay Fire Department ................................................................. 911
Emergency Services ............................................................................. 911
Sturgeon Bay Police Department .......................................................... 911

5. Resources Available:

**ON-SITE:** N/A

**OFF-SITE:**
Mobile absorbent kits, spill kits, PPE kits with respirators.
Sturgeon Bay Fire Department
Door County Emergency Services
6. Emergency Reporting Requirement:

Section 304: Emergency Notification of Release.

Emergency Release Notification - SECTION 304 and s. 323.60, Wis. Stats., requires the owner or operator of a facility to immediately provide verbal notification to the appropriate governmental entities; National Response Center (NRC) at 800-424-8802, Wisconsin Emergency Management (WEM) at 800-943-0003, menu option #1, and the Local Emergency Planning Committee (LEPC) at 920-832-7101, that a release of a:

Comprehensive Environmental Response Compensation and Liability Act (CERCLA) hazardous substance (HS) or Emergency Planning and Community Right to Know Act (EPCRA) extremely hazardous substance (EHS) has occurred, which meets or exceeds the listed reportable quantity (RQ), when the release goes off-site. This is commonly referred to as the federal substance release reporting law.

NOTE: EPA has written that a release need not result in actual exposure to persons off-site to require Sec. 304 Notification; the potential for exposure off-site is sufficient.

7. GENERAL INFORMATION AND ASSUMPTIONS (Disclaimer)

The vulnerability zones set forth in this plan are based on the Environmental Protection Agency’s (EPA’s) Technical Guidance for Hazards Analysis. The zones (Listed in Section 8. Hazard Analysis – Initial Screening - EPA Credible Worst Case Analysis) are based on a credible worst-case scenario and identify the potential area for impact should an air-borne release of an Extremely Hazardous Substance (EHS) chemical occur. A re-evaluation scenario with more realistic parameters has also been computed. Parameters
used for both scenarios have been described as part of the Hazard Analysis Summary in Section 8.

CAMEO Suite software was used in the preparation of vulnerability zones. It should be noted that CAMEOfm cannot compute zones greater than 10 miles or less than 0.1 miles. Thus, results that fall into these situations will be noted as “>10 miles” or “<0.1 miles.”

The field Incident Commander shall determine the actual response to an incident and the affected area may vary from the planning vulnerability zone identified in this plan. Depending on wind speed and direction, the amount of material released and other pertinent factors, the ACTUAL vulnerability zone may be smaller, and in some instances larger, than the credible worst-case vulnerability zone identified herein.

The vulnerability zones determined in this plan are for general planning purposes only.

8. Hazard Analysis:

Facility Description:

Sturgeon Bay Utilities operates this well site located at the intersection of 699 Tacoma Beach Rd. The building is concrete block/brick construction and is secured at all times. There are no employees on site. The facility is a water pumping/purification operation. The extremely hazardous chemical on site is Chlorine. There are two (2) 150 lb cylinders on site, one is hooked up to the system and one is in storage.

There is no on-site monitoring system for a chlorine release. A worst case scenario would involve a valve breaking off of one cylinder during the off-loading process releasing 150 lbs. of Chlorine. This would create a vulnerability zone of 0.4 miles. The chlorine is delivered by Hawkins Chemical Company out of Appleton. The delivery route travels north on Hwy 42/57, Business 42/57 and residential streets.

The vulnerability zone was developed using the CAMEO computer program.

Seasonal Information:

Chlorine is maintained on site year round. The Chlorine cylinder may be full at any time during the year.

Greatest Potential for Release:

The greatest potential for a release of Chlorine would be an accident during the change of cylinders. There is always the possibility of a release when the facility receives new product to top off the tank.
**Special Risk Considerations:**

There are two special facilities located within the 0.4 mile vulnerability zone:

- **Cardinal Ridge**
  - 817 Circle Ridge Pl
  - 920-743-9289

- **Oxford Ave Apartments**
  - 960 Oxford Ave
  - 920-743-2435

**Vulnerability Zone Initial Screening (EPA Credible Worst-Case Scenario):**

*(CAMEO Vulnerability Zone Modeling Parameters - 3.4 mph wind, atmospheric stability factor F, rural (open) terrain, ground level continuous (10 min.-gas, 1min.-liquid) total release, physical state – gas or liquid, Level of Concern: 1/10th IDLH)*

Vulnerability Zone > 2.2 miles – **Chlorine** - CAS #: 07664-41-7

**Amount released – full bulk tank (see “amount at risk” in Section 3)**

**Vulnerability Zone Reevaluation Scenario:**

*(CAMEO Vulnerability Zone Modeling Parameters – 11.9 mph wind, atmospheric stability factor D, urban terrain, ground level continuous (10 min.-gas, 1min.-liquid) most likely quantity released, physical state – gas or liquid, Level of Concern: 1/10th IDLH)*

**Estimate of Population Affected:** 435 to a seasonal average of 5,000 persons.

**Conclusions:**

The facility has the potential for a small release due to the quantity of Chlorine utilized. The most likely scenario is a smaller release from a line or valve leak.

The lead time for a hazmat incident could be from 0 – 30 minutes. As a result, this short time may not allow for a safe evacuation, especially when extremely toxic chemical fumes are involved. An evacuation under these considerations may expose the population to dangerous toxic chemicals and the decision may be made to shelter in place. Preferred areas for protective sheltering would be interior hallways, rooms without windows or exterior doors, enclosed stairways and rooms on the side of the building away from where the hazard is approaching. Doors, windows and other potential air leaks should be sealed up to prevent toxic fumes from entering.

Experience indicates that shelter space would need to be provided for only 30% of the population within the initial isolation and evacuation zones and the remaining 7% would seek shelter with family and friends outside of the risk zone.

9. **Warning System:**

**On-site:**

There is an on-site detection system for a Chlorine release. The ambient air sensor can detect a chlorine release which would trigger both an auto shut off of the chlorine as well as set off an internal alarm to notify of the release. The facility does have a type of alarm system for break-ins but not fire. Consequently, any notification of a chemical release...
will probably come as a result of an actual release and not a false alarm. The facility relies on verbal and telephone on site emergency notification.

**Off-site:**

The warning system will be operated in accordance with the County Warning Plan, which supports the ERP. Other warning systems that may be employed include the use of law enforcement vehicles using public address systems and door-to-door contact of residents by emergency responders.

10. **Accessibility Concerns:** Tacoma Beach Road is a two lane road. No accessibility concerns.

11. **Special Facilities Affected:** Vulnerability Zone: *Chlorine = 2.2 miles*

<table>
<thead>
<tr>
<th>SPECIAL FACILITY NAME</th>
<th>ADDRESS</th>
<th>PHONE</th>
<th>POPULATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cardinal Ridge</td>
<td>817 Circle Ridge Pl</td>
<td>920-743-9289</td>
<td>40</td>
</tr>
<tr>
<td>Oxford Ave Apartments</td>
<td>960 Oxford Ave</td>
<td>920-743-2435</td>
<td>200</td>
</tr>
</tbody>
</table>

12. **Population Protection:**

The determination to Shelter In-Place or Evacuate would be made by the Incident Commander, as appropriate.

The lead-time for a hazardous material incident could be from 0-30 minutes. As a result, this short amount of time may not allow for a safe evacuation, especially when extremely toxic chemical fumes are involved. An evacuation under these conditions may expose the population to dangerous toxic chemicals. A decision to Shelter In-Place must then be considered.

**Shelter In-Place:**

Preferred areas for protective sheltering would be interior hallways, rooms without windows or exterior doors, enclosed stairways and rooms on the side of the building away from where the hazard is approaching.

Protective measures may include any or all of the following:

- closing and locking all doors and windows
- sealing cracks around doors and windows with duct tape or wet towels
- Turning off all air circulation systems (heating, air conditioning, vent fans, fireplace, clothes dryers, etc...)

**Evacuation:**

If evacuation is deemed appropriate, then experience indicates that shelter space would need to be provided for approximately 30% of the population within the initial isolation and evacuation zones. The remaining 70% can be expected to seek shelter with family and
friends outside the risk area.

*Roles and responsibilities relative to evacuation and sheltering may be found in the Door County Emergency Response Plan, Emergency Support Function 1 (ESF-1) - Transportation.*

13. **Transportation Information:**

The facility primarily receives its supply of chemicals from Green Bay, WI, and South of Green Bay. Deliveries would come via Highway 42/57 from the south.

14. **Other Considerations:**

**Fire Potential and Consequences:**
Fire Department personnel must wear full PPE during fire operations due to Chlorine on site.

**Surrounding Area and Lines of Communication:**
Industrial / Commercial / Residential

**Environmental Issues (initial):** Prevent entry into water intakes and waterways.

**Other Jurisdictions affected:**
A large incident involving the Chlorine would affect other Door County municipalities.

15. **Limits of Liability:**

The following is a copy (combination of CAMEO, ALOHA, and MARPLOT) of the Limitation of Liability statement found in the CAMEO, Version 2.0, ALOHA Version 5.1, and MARPLOT Version 2.0 manuals. This should be considered as part of this Planner’s Limitation of Liability and gives him equal coverage as provided to the United States Government.

"Limitation of Liability - The United States Government has used its best effort to deliver complete data incorporated into CAMEO and ALOHA. Nevertheless, the United States Government and the National Safety Council do not warranty accuracy or completeness, are not responsible for errors and omissions, and are not liable for any direct, indirect, or consequential damages flowing from the recipient's use of CAMEO, ALOHA, and MARPLOT.

The CAMEO, ALOHA, and MARPLOT software are being distributed "as is" and neither the United States Government nor the National Safety Council makes any warranty claims, either express or implied, with respect to the CAMEO, MARPLOT, or ALOHA software, their quality, accuracy, completeness, performance, merchantability, or fitness for any intended purpose.

Indemnification - The recipient shall indemnify and save harmless the United States and
the National Safety Council and their agents and employees against any and all loss, damage, claim, or liability whatsoever, due to personal injury or death, or damage to property of others directly or indirectly due to the use by the recipient, including failure to comply with the provisions of the National Safety Council order form."

16. References:


17. Distribution List:

1) Facility
2) Fire Department of Jurisdiction – Sturgeon Bay Fire Department
3) Wisconsin Emergency Management Regional Office
4) Door County Emergency Management

18. Attachments:

1) Safety Data Sheets (SDS) for EHS Chemicals
2) Vulnerability Zone and Transportation Route Map(s)
3) Facility Layout and Selected Information
### Chlorine

**Safety Data Sheet (SDS)**

**Sturgeon Bay Utilities Tacoma Well #10 - Off-Site Plan**

**August 2019**

#### Storage and Handling

- Store in a well-ventilated area.
- Avoid exposure to strong oxidizing agents.
- **Inhalation**: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Provide necessary medical treatment for symptoms.
- **Ingestion**: Drink large amounts of water. Give 2-3 glasses. Do not induce vomiting.
- **Skin Contact**: Remove contaminated clothing and wash hands. Wash affected skin with soap and water.
- **Eye Contact**: Rinse eyes immediately with plenty of water for 15 minutes. Seek medical advice.
- **Fire Fighting Measures**: Use water spray to cool exposed containers. Extinguisher water, dry chemical, or carbon dioxide.
- **Personal Protective Equipment (PPE)**: Wear appropriate protective clothing and equipment.

#### Exposure Limits

- **TLV-TWA**: 1.0 ppm (0.5 mg/m³)
- **IDLH**: 10 ppm (5 mg/m³)

#### Health Effects

- **MSDS**: Contains information on the health effects of the substance.

#### Physical Properties

- **Boiling Point**: 100°C
- **Density**: 1.582 g/mL
- **Vapor Pressure**: 0.96 mmHg at 25°C

#### Other Information

- **Disposal**: Dispose of according to local regulations.
- **Precautions**: Keep out of reach of children.

---

### Table

<table>
<thead>
<tr>
<th><strong>Component</strong></th>
<th><strong>Percentage</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Chlorine</td>
<td>35%</td>
</tr>
<tr>
<td>Sodium Chloride</td>
<td>65%</td>
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</tbody>
</table>

**Hazardous Ingredients**: Chlorine (CAS No. 7772-50-4)

**Precautions**: Use only in well-ventilated area. Avoid exposure to strong oxidizing agents.
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<tr>
<th>Chemical: Chlorine</th>
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| Physical Data: |
Chlorine

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**Safety Data Sheet (SDS)**

**Hazard Category:**

- Health Hazard: Skin Irritator
- Physical Hazard: None

**Fire Fighting Measures:**

- Extinguish fire with water, foam, or dry chemical.

**Inhalation:**

- Remove victim to fresh air. If symptoms persist, seek medical attention.

**Ingestion:**

- Do not induce vomiting. Give large amounts of water. Seek medical attention.

**Skin Contact:**

- Wash affected areas with soap and water. Seek medical attention.

**Eye Contact:**

- Rinse eyes with大量水至少15分钟. Seek medical attention.

**Personal Protection:**

- Wear appropriate personal protective equipment.

**Other Precautions:**

- Do not breathe dust or fumes. Keep away from heat and sources of ignition.

---

**Ingredients:**

- Chlorine (Cl₂)

---

**Physical Data:**

- Density: 1.699 g/cm³
- Melting Point: -100.98 °C
- Boiling Point: -34.0 °C

**Additional Information:**

- Chlorine is highly reactive and can cause severe burns and respiratory problems. Proper handling and ventilation are crucial to prevent exposure.

---

**References:**

- United States Environmental Protection Agency (EPA) regulations.
- International Chemical Safety Card (ICSC) data.

---

**License and Certification:**

- Compliance with state and federal regulations.

---

**Manufacturer:**

- Sturgeon Bay Utilities

---

**Date of SDS:**

- August 2019

---

**Revision History:**

- Version 1.0

---

**Contact Information:**

- Sturgeon Bay Utilities

---

**Sensitivity to Moisture:**

- Sensible to moisture, reacts explosively with hydrogen to form water vapor leaving chlorine monoxide.
ATTACHMENT 2) VULNERABILITY ZONE
ATTACHMENT 2) – TRANSPORTATION ROUTE MAP
Walmart Facility
#161311
Off-Site Emergency Plan Review Guide and Index

1. Facility Identification  Page 3
2. Facility Coordinator / Alternate Coordinator  Page 3
3. Chemicals on Site  Page 3
4. Primary Emergency Responders  Page 3
5. Resources Available  Page 4
6. Emergency Reporting Requirement  Page 4
7. General Information and Assumptions (Disclaimer)  Page 4
8. Hazard Analysis  Page 5
9. Warning System  Page 6
10. Accessibility Concerns  Page 6
11. Special Facilities Affected  Page 6
13. Transportation Information  Page 7
14. Other Considerations  Page 7
15. Limits of Liability  Page 7
16. References  Page 8
17. Distribution List  Page 8
18. Attachments:
   1) Safety Data Sheets (SDS) for EHS Chemicals  Page 9
   2) Vulnerability Zone and Transportation Route Map(s)  Page 22
   3) Facility Layout and Selected Information  Page 27
1. Walmart - Off-Site Plan
   Door County

   1536 Egg Harbor Rd.
   Sturgeon, WI 54235
   920 746-0402
   WEM ID Number: 161311

2. Facility Coordinator: Debra Ebben
   Manager (Work) 920-746-0402
   (24 hr.) 920-217-2114 cellular djebben.s01316@stores.us.wal-mart.com
   Alternate Coordinator: Geoffrey Pinney
   Asst. Manager (Work) 920-746-0402
   (24 hr.) 920-495-1549 cellular

3. Chemicals on site:

   **Extremely Hazardous Substances (EHS)**

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name - Trade Name</th>
<th>Max Amount (Pounds)</th>
<th>Amount at Risk (Pounds)</th>
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<tbody>
<tr>
<td>7664-93-9</td>
<td>Sulfuric Acid</td>
<td>1000</td>
<td>1000</td>
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<tr>
<td>UN#: 1830 // NFPA: 3-0-2-W</td>
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<tr>
<td><em>Vulnerability Zone</em> = 0.1 miles</td>
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<td><em>(Based on Reevaluation Scenario see Section 8)</em></td>
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   Vulnerability zone is based on the EPA Technical Guidance for Hazardous Analysis as calculated by CAMEO. See Section 7 for more information.

   **Hazardous Chemicals (HC): Other chemicals.**

   Miscellaneous cleaning chemicals

4. Primary Emergency Responders:

   Sturgeon Bay Fire Department ............................................................ 911
   Emergency Services – EMS and Emergency Management ........................ 911
   Sturgeon Bay Police Department .......................................................... 911

5. Resources Available:

   **ON-SITE:**
   Daily Hours
   Mon - Fri 9:00 AM - 9:00 PM
   Sat 9:00 AM - 7:00 PM
OFF-SITE:

Sturgeon Bay Fire Department
Door County Emergency Services
WI State Regional Hazardous Material Emergency Response Team
- Activated by Door County Emergency Services. 1-2 hr. ETA

TECHNICAL:

Infotrac 800 535-5053
Chemtrec 800 424 9300
National Response Center 800 424 8802

SUPPORT AVAILABLE AT FACILITY:

Chemical Resistant Gloves                      Chemical Eye Protection
Dry Chemical Fire Extinguisher                  54 ABC Fire Extinguishers
First Aid Kits at 18 Spill Stations             40 Lbs. of Neutralizing Material
2 Eye wash stations

6. Emergency Reporting Requirement:

Section 304: Emergency Notification of Release.

Emergency Release Notification - SECTION 304 and s. 323.60, Wis. Stats., requires the owner or operator of a facility to immediately provide verbal notification to the appropriate governmental entities; National Response Center (NRC) at 800-424-8802, Wisconsin Emergency Management (WEM) at 800-943-0003, menu option #1, and the Local Emergency Planning Committee (LEPC) at 920-832-7100, that a release of a:

Comprehensive Environmental Response Compensation and Liability Act (CERCLA) hazardous substance (HS) or Emergency Planning and Community Right to Know Act (EPCRA) extremely hazardous substance (EHS) has occurred, which meets or exceeds the listed reportable quantity (RQ), when the release goes off-site. This is commonly referred to as the federal substance release reporting law.

NOTE: EPA has written that a release need not result in actual exposure to persons off-site to require Sec. 304 Notification; the potential for exposure off-site is sufficient.

7. GENERAL INFORMATION AND ASSUMPTIONS (Disclaimer)

The vulnerability zones set forth in this plan are based on the Environmental Protection Agency’s (EPA’s) Technical Guidance for Hazards Analysis. The zones (Listed in Section 8. Hazard Analysis – Initial Screening - EPA Credible Worst Case Analysis) are based on a credible worst-case scenario and identify the potential area for impact should an air-borne release of an Extremely Hazardous Substance (EHS) chemical occur. A re-evaluation scenario with more realistic parameters has also been computed. Parameters used for both scenarios have been described as part of the Hazard Analysis.
Summary in Section 8.

CAMEO Suite software was used in the preparation of vulnerability zones. It should be noted that CAMEO cannot compute zones greater than 10 miles or less than 0.1 miles. Thus, results that fall into these situations will be noted as “>10 miles” or “<0.1 miles.”

The field Incident Commander shall determine the actual response to an incident and the affected area may vary from the planning vulnerability zone identified in this plan. Depending on wind speed and direction, the amount of material released and other pertinent factors, the ACTUAL vulnerability zone may be smaller, and in some instances larger, than the credible worst-case vulnerability zone identified herein.

*The vulnerability zones determined in this plan are for general planning purposes only.*

8. Hazard Analysis:

*Facility Description:*

The Walmart Store is located in the City of Sturgeon Bay on Egg Harbor Road at just East of 14th Avenue. The building is a concrete block structure. There is public access when the store is open for business and locked after hours. The Sturgeon Bay Fire Department has access via a Knox Box, which only the Fire Department can access. The building is equipped with a burglar and fire alarm system that are monitored. The building is also sprinklered.

The only Extremely Hazardous Substance on site is Sulfuric Acid. The Sulfuric Acid is used in multiple batteries that are for sale in the facility. The maximum quantity of pure sulfuric acid stored on site is under 2000 Lbs.

*Greatest Potential for Release:*

A worst case scenario would involve a crack in a battery releasing approximately 85 Lbs. of pure Sulfuric Acid. This would create a vulnerability zone of less than one tenth of a mile.

*Special Risk Considerations:*

None.

**Vulnerability Zone Initial Screening (EPA Credible Worst-Case Scenario):**

(CAMEO Vulnerability Zone Modeling Parameters - 3.4 mph wind, atmospheric stability factor F, rural (open) terrain, ground level continuous (10 min.-gas, 1min.-liquid) total release, physical state – gas or liquid, Level of Concern: 1/10th IDLH)

Vulnerability Zone > 0.1 miles – Sulfuric Acid - CAS #: 7664-93-9
Amount released – Battery Crack (see “amount at risk” in Section 3)

**Vulnerability Zone Reevaluation Scenario:**

(CAMEO Vulnerability Zone Modeling Parameters – 11.9 mph wind, atmospheric stability factor D, urban terrain, ground level continuous (10 min.-gas, 1min.-liquid) most likely quantity released, physical state – gas or liquid, Level of Concern: 1/10th IDLH)

Conclusions:

The facility has the potential for a small release due to the quantity of Sulfuric Acid utilized. The most likely scenario is a smaller release from a battery crack.

The lead time for a hazmat incident could be from 0 – 30 minutes. As a result, this short time may not allow for a safe evacuation, especially when extremely toxic chemical fumes are involved. An evacuation under these considerations may expose the population to dangerous toxic chemicals and the decision may be made to shelter in place. Preferred areas for protective sheltering would be interior hallways, rooms without windows or exterior doors, enclosed stairways and rooms on the side of the building away from where the hazard is approaching. Doors, windows and other potential air leaks should be sealed up to prevent toxic fumes from entering.

Experience indicates that shelter space would need to be provided for only 30% of the population within the initial isolation and evacuation zones and the remaining 7% would seek shelter with family and friends outside of the risk zone.

9. Warning System:

On-site:

There is no alarm or detection system for a Sulfuric Acid release. The facility does have an alarm system for a fire and burglary. Consequently, any notification of a chemical release will probably come as a result of an actual release and not a false alarm. The facility relies on verbal and telephone on site emergency notification.

Off-site:

The warning system will be operated in accordance with the County Warning Plan, which supports the ERP. Other warning systems that may be employed include the use of law enforcement vehicles using public address systems and door-to-door contact of residents by emergency responders.

10. Accessibility Concerns:

None

11. Special Facilities Affected: Vulnerability Zone: Sulfuric Acid = 0.1 miles

None

12. Population Protection:

The determination to Shelter In-Place or Evacuate would be made by the Incident Commander, as appropriate.

The lead-time for a hazardous material incident could be from 0-30 minutes. As a result, this short
amount of time may not allow for a safe evacuation, especially when extremely toxic chemical fumes are involved. An evacuation under these conditions may expose the population to dangerous toxic chemicals. A decision to Shelter In-Place must then be considered.

**Shelter In-Place:**

Preferred areas for protective sheltering would be interior hallways, rooms without windows or exterior doors, enclosed stairways and rooms on the side of the building away from where the hazard is approaching.

**Evacuation:**

If evacuation is deemed appropriate, then experience indicates that shelter space would need to be provided for approximately 30% of the population within the initial isolation and evacuation zones. The remaining 70% can be expected to seek shelter with family and friends outside the risk area.

*Roles and responsibilities relative to evacuation and sheltering may be found in the Door County Emergency Response Plan, Emergency Support Function 1 (ESF-1) – Transportation and Emergency Support Function 6 (ESF 6) Mass Care, Housing and Human Services.*

13. **Transportation Information:**

The facility primarily receives its supply of chemicals from Green Bay, WI, and South of Green Bay. Deliveries would come via Highway 42/57 from the south.

14. **Other Considerations:**

**Surrounding Area and Lines of Communication:**

Commercial / Residential

*Environmental Issues (initial):* Prevent entry into water intakes and waterways.

*Other Jurisdictions affected:*

A large incident involving the *Sulfuric Acid* at this location would not affect other Door County municipalities.

15. **Limits of Liability:**

The following is a copy (combination of CAMEO, ALOHA, and MARPLOT) of the Limitation of Liability statement found in the CAMEO, Version 2.0, ALOHA Version 5.1, and MARPLOT Version 2.0 manuals. This should be considered as part of this Planner's Limitation of Liability and gives him equal coverage as provided to the United States Government.

"Limitation of Liability - The United States Government has used its best effort to deliver complete data incorporated into CAMEO and ALOHA. Nevertheless, the United States Government and the National Safety Council do not warranty accuracy or completeness, are not responsible for errors and omissions, and are not liable for any direct, indirect, or consequential damages flowing from the recipient's use of CAMEO, ALOHA, and MARPLOT."
The CAMEO, ALOHA, and MARPLOT software are being distributed "as is" and neither the United States Government nor the National Safety Council makes any warranty claims, either express or implied, with respect to the CAMEO, MARPLOT, or ALOHA software, their quality, accuracy, completeness, performance, merchantability, or fitness for any intended purpose.

Indemnification - The recipient shall indemnify and save harmless the United States and the National Safety Council and their agents and employees against any and all loss, damage, claim, or liability whatsoever, due to personal injury or death, or damage to property of others directly or indirectly due to the use by the recipient, including failure to comply with the provisions of the National Safety Council order form."

16. References:


17. Distribution List:

1) Facility
2) Fire Department of Jurisdiction – Sturgeon Bay Fire Department
3) Wisconsin Emergency Management Regional Office
4) Door County Emergency Management

18. Attachments:

1) Safety Data Sheets (SDS) for EHS Chemicals
2) Vulnerability Zone and Transportation Route Map(s)
3) Facility Layout and Selected Information
# SAFETY DATA SHEET

**Product Identifier**

**Product Name**
1614A Energizer Automotive Battery

**Other Means of Identification**

**UN-No.**
UN2764

**Synonyms**
None

**Recommended use of the chemical and restrictions on use**

**Recommended Use**
Load used battery

**Uses advised against**
No information available

**Details of the supplier of the safety data sheet**

**Supplier Name**
Johnson Controls

**Supplier Address**
902 D South Waldo Dr. Suite 20
Hamlin, NY
7772
US

**Supplier Phone Number**
Phone: 1-800-335-2888
Fax: 1-800-227-9002
Contact Phone: 447-377-6565

**Supplier Email**
infoenjbldc@jc.com

**Emergency telephone number**

# 2. HAZARDS IDENTIFICATION

**Classification**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). This product is an article which is a sealed battery and as such does not require an OSHA hazard communication warning. Unless captured, the hazards indicated are for a exploded battery.

- **Acute oral - Oral:**
- **Category:**
GHS Label elements, including precautionary statements

Emergency Overview

Signal word
Danger

Hazard Statements
Caution: This product may cause skin burns and eye damage. May cause cancer. May damage fertility or harm the unborn child. May cause damage to organs through prolonged or repeated exposure.

This product is an aqueous-based battery fluid. Safety Information is given for exposure to this article as sold. Intended use of the product should be in well-ventilated area. This is a battery. In case of capture, the above hazards exist.

Appearance: Black
Physical State: Solid
Other Note:

Precautionary Statements - Prevention
Observe special instructions before use.
Do not handle until all safety data sheets have been read and understood.
If personal protective equipment is required,
Wash face, hands and any exposed skin thoroughly after handling.
Do not contaminate packaging or work area with this product.
Use only in a well-ventilated area.
Do not breathe dust or fumes.

Precautionary Statements - Response
Specific treatment (see 7 on this label).
Immediate call a POISON CENTER or contact your doctor.
Special treatment (see supplement date on this label)

Eyes
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER or doctor/physician.

Skin
IF ON SKIN: Wash thoroughly after handling. Remove contaminated clothing before reuse.

Inhalation
Inhalation
If inhaled, remove victim to fresh air and have medical personnel called if needed. If you feel unwell, immediately call a POISON CENTER or doctor/physician.

Ingestion
If swallowed, call a POISON CENTER or doctor/physician if you feel unwell.

Precautionary Statements - Storage
Store in a cool, dry place. Keep container tightly closed.

Precautionary Statements - Disposal
Dispose of container and contents in an approved waste disposal point.

Hazard not otherwise classified (HNOC)
Not applicable.

Unknown Toxicity
OR 0% of the mixture consists of ingredient(s) of unknown toxicity.

Other Information
Very toxic to aquatic life with long lasting effects.

Interactions with Other Chemicals
Use of chemicals having a may enhance toxic effects.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

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<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Weight-%</th>
<th>Trade Secret</th>
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<tbody>
<tr>
<td>Subic acid</td>
<td>7446-13-0</td>
<td>15 - 40</td>
<td></td>
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<tr>
<td>Lead</td>
<td>7440-52-1</td>
<td>15 - 70</td>
<td></td>
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<tr>
<td>Lead nitrate</td>
<td>1335-81-0</td>
<td>15 - 40</td>
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<tr>
<td>Lead sulfide</td>
<td>7755-46-7</td>
<td>1 - 5</td>
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*The total percentage (concentration) of composition has been withheld as a trade secret.

### 4. FIRST AID MEASURES

**General Advice**
First aid to engine of sealed battery.

**Eye Contact**
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eyes open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Seek immediate medical attention/advice.

**Skin Contact**
Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Seek immediate medical attention/advice.

**Inhalation**
Remove to fresh air. If breathing is difficult, trained personnel should give
Page 47/43
5. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions
- Eliminate all ignition sources for example, flames, sparks or flint in immediate area.
- Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Stop work if you can do without risk.

Other Information
- Do not get water inside containers.

Environmental Precautions
- Prevent entry into drains, sewers, basements or confined areas.

Methods and materials for containment and cleanup

Methods for Containment
- Absorb with dry sand, sawdust or coil the oxidizing material and transfer to containers.

Methods for cleaning up
- Rinse up and transfer to proper disposal containers.

7. HANDLING AND STORAGE

Procedures for safe handling

Handling
- In case of rupture, handle in accordance with good industrial hygiene and safety practices.
- Avoid contact with skin, eyes or clothing.
- In case of insufficient ventilation, wear suitable respiratory equipment Use only with adequate ventilation and in closed systems. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.

Conditions for safe storage, including any incompatibilities

Storage
- Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from moisture. Store in an upright position. Keep out of the reach of children. Store away from other materials.

Incompatible Products
- Avoid contact with other materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH REL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfuric acid</td>
<td>TWA: 0.2 mg/m³, Immediate action</td>
<td>TWA: 0.05 mg/m³</td>
<td>TWA: 0.05 mg/m³</td>
</tr>
<tr>
<td>(H₂SO₄)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(aq)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

UL
### Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Remarks / Method</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Physical State</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>Basic</td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td><strong>Property</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>2</td>
<td>None known</td>
</tr>
<tr>
<td>Melting / freezing point</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Boiling point / boiling range</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Flash Point</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Flammability Limit in Air</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper flammability limit</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Lower flammability limit</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Vapor density</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>No data available</td>
<td>None known</td>
</tr>
</tbody>
</table>

### Other Exposure Guidelines

- Workers are advised to use appropriate protective equipment, such as gloves and respirators, when handling the substance. Proper ventilation is recommended.
- Regular handwashing and a shower are required after handling the substance.
- Workers should avoid skin contact and use protective clothing.

### Appropriate Engineering Controls

- Showers and eye wash stations are provided.
- Ventilation systems are in place.

### Individual Protection Measures, such as personal protective equipment

- **Eye/Face Protection:** Eye protection glasses when necessary.
- **Skin and Body Protection:** Use protective gloves and chemical-resistant clothing when necessary.
- **Respiratory Protection:** Respirators may be required under certain conditions.
- **Hygiene Measures:** Regular handwashing is mandatory.

### Physical and Chemical Properties

- **pH:** 2
- **Melting / freezing point:** No data available
- **Boiling point / boiling range:** No data available
- **Flash Point:** No data available
- **Evaporation Rate:** No data available
- **Flammability (solid, gas):** No data available
- **Flammability Limit in Air:** No data available
- **Upper Flammability limit:** No data available
- **Lower Flammability limit:** No data available
- **Vapor pressure:** No data available
- **Vapor density:** No data available
- **Specific Gravity:** No data available
- **Water Solubility:** No data available

---
Walmart - Off-Site Plan

Door County

1.254738 - 1547 Energizer Automotive Battery

Revision Date: 20 Apr 2016

Solubility in other solvents: None known
Partition coefficient (Octanol/Water): None known
Autoignition temperature: None known
Decomposition temperature: None known
Kinematic viscosity: None known
Dynamic viscosity: None known
Explosive properties: None known
Corrosive Properties: None known

Other Information

Softening Point: None known
VOC Content (%): None known
Particle Size: None known
Particle Size Distribution: None known

Stability and Reactivity

Reactivity

No data available.

Chemical stability

Stable under recommended storage conditions.

 Possibility of Hazardous Reactions

None anticipated under normal processing.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to avoid

Exposure to air or moisture over prolonged periods. Excessive heat.

Incompatible materials

Aqueous, bases, oxidizing agents.

Hazardous Decomposition Products

Carbon oxides.

Toxicological Information

Information on likely route of exposure

Product Information: Product does not present an acute toxicity hazard based on known or supplied information, in case of release.

Inhalation

Specific test data for the substance or mixture is not available. Can irritate lungs. Inhalation of toxic or irritating gases or vapors may cause irritation, coughing, choking, headache, dizziness, and sneezing for several hours. Pneumonia can occur with irritation in the chest, shortness of breath, flushed skin, decreased blood pressure, and increased heart rate. Inhalation of toxic substances can lead to a toxic effect of the lungs. Pulmonary edema can be fatal. May cause irritation of respiratory tract. Toxic by inhalation.

Eye Contact

Specific test data for the substance or mixture is not available. Causes burns. Irritation to eyes may cause severe damage including blindness. Causes severe eye damage. May cause immediate damage to eyes.

Skin Contact

Specific test data for the substance or mixture is not available. Causes burns. Causes burns.

Ingestion

Specific test data for the substance or mixture is not available. Causes burns. Irritation on skin may cause severe burns or the upper digestive and respiratory tract. May
cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Exposure or inhalation of fumes may be seen around the mouth. Breathing of the hazard may cause shortness of breath, rapid breathing, and causes lung damage if swallowed. May be fatal if swallowed and enters stomach. Ingestion may cause irritation to mucous membranes. Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea. May be harmful if swallowed.

Component Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS Number</th>
<th>OSHA</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>GRHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Chloroethanol</td>
<td>79-01-6</td>
<td>Group 2</td>
<td>Group 2A</td>
<td>No evidence of carcinogenicity</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,1-Diethyloxirane</td>
<td>990-89-3</td>
<td>Group 2</td>
<td>Group 2A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,3-Diethyloxirane</td>
<td>108-95-2</td>
<td>Group 2</td>
<td>Group 2A</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Information on toxicological effects

Symptoms: Headache (soreness, dizziness, nausea, vomiting, and/or headache). Difficulty in breathing.

Delayed and Immediate effects: Acute effects, chronic effects from short and long-term exposure

Sensitization: No information available.

Mutagenic Effects: No information available.

Carcinogenicity: The table below indicates whether each agency has listed any ingredient as a carcinogen.

Reproductive Toxicity: Contains a known or suspected reproductive toxin. Product is a chemical which is a known or suspected reproductive hazard.

Developmental Toxicity: Contains ingredients that have suspected developmental hazards. No information available.

STOT - single exposure: Contains ingredients that have suspected developmental hazards.

STOT - repeated exposure: Contains ingredients that have suspected developmental hazards.

Chronic Toxicity: No known effects based on available data. Chronic exposure to excessive concentrations may cause erosion of the teeth followed by abscesses. Chronic irritation with chronic
### Target Organ Effects

Respiratory system, Eyes, Skin, Gastrointestinal Tract (GI), Systemic Toxicity. Reproductive system, Blood, Central Nervous System (CNS), Gastrointestinal, Kidney, Teeth, Cardiovascular system. Intact dermal system. Immune system. May damage the unborn child.

### Aspiration Hazard

No information available.

### Numerical measures of toxicity: Product Information

The following values are calculated based on chapter 5.1 of the GHS document.

- **ATEx** (oral):
  - 676.00 mg/L
- **ATEx** (inhalation-gas):
  - 0.000 ppm (4 h)
- **ATEx** (inhalation dust/mist):
  - 1.00 mg/L
- **ATEx** (inhalation-vapor):
  - 17.00 mg/L

### 4.2 ECOLOGICAL INFORMATION

**Eco-toxicity**

Harmful to aquatic life. Very toxic to aquatic life with long lasting effects.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Toxicity to Algae</th>
<th>Toxicity to Fish</th>
<th>Toxicity to Invertebrates</th>
<th>Daphnia Magna (Water Flea)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium azide</td>
<td>24h LC50: 600 mg/L</td>
<td>48h EC50: 25 mg/L</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(48h LC50: 670 mg/L)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lead</td>
<td>48h LC50: 0.44 mg/L</td>
<td>48h LC50: 0.01 mg/L</td>
<td>48h EC50: 0.00 µL</td>
<td></td>
</tr>
</tbody>
</table>

### Persistence and Degradability

No information available.

### Bioaccumulation

No information available.

### Other adverse effects

No information available.
13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal methods

This material, as supplied, is a hazardous waste according to several regulations (10 CFR 261).

Contaminated Packaging

Do not reuse empty containers.

US EPA Waste Number

7000.0008

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>RCRA</th>
<th>RCRA - Index Number</th>
<th>RCRA - POC Listing</th>
<th>RCRA - U S EPA Waste Code</th>
<th>RCRA - U S EPA Waste Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low 75-39 02 1</td>
<td>264</td>
<td>264-00-1</td>
<td>264-00-1</td>
<td>766</td>
<td>766</td>
</tr>
<tr>
<td>Low 75-39 02 1</td>
<td>264</td>
<td>264-00-1</td>
<td>264-00-1</td>
<td>766</td>
<td>766</td>
</tr>
</tbody>
</table>

California Hazardous Waste Codes 766

This product contains one or more substances that are listed with the State of California by regulation 17208.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Surfact added</th>
<th>California Hazardous Waste</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low 75-39 02 1</td>
<td>264-00-1</td>
<td>766</td>
</tr>
<tr>
<td>Low 75-39 02 1</td>
<td>264-00-1</td>
<td>766</td>
</tr>
</tbody>
</table>

14. TRANSPORT INFORMATION

DOT

UN-No.  1824 | Proper Shipping Name: BATTERIES, WET, FILLED WITH ACID |
Hazard Class: 9 |
Packing Group: III |
Description: UN2870, BATTERIES, WET, FILLED WITH ACID |
Emergency Response Guides Number: 5

TDG

UN-No.  1824 | Proper Shipping Name: BATTERIES, WET, FILLED WITH ACID |
Hazard Class: 9 |
Packing Group: III |
Marking: This product contains a chemical which is listed as a marine pollutant according to TDG |
Description: UN2870, BATTERIES, WET, FILLED WITH ACID |

IMEX

UN-No.  1824 | Proper Shipping Name: BATTERIES, WET, FILLED WITH ACID |
Hazard Class: 9 |
Description: UN2870, BATTERIES, WET, FILLED WITH ACID |
<table>
<thead>
<tr>
<th>IMO/UN-No.</th>
<th>Proper Shipping Name</th>
<th>Hazard Class</th>
<th>Packing Group</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN3164</td>
<td>BATTERIES, WET, FILLED WITH ACID</td>
<td>8</td>
<td>III</td>
<td>UN2824 BATTERIES, WET, FILLED WITH ACID, 8</td>
</tr>
</tbody>
</table>

**IALA**

<table>
<thead>
<tr>
<th>UN-No.</th>
<th>Proper Shipping Name</th>
<th>Hazard Class</th>
<th>Packing Group</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN2824</td>
<td>BATTERIES, WET, FILLED WITH ACID</td>
<td>8</td>
<td></td>
<td>UN2824 BATTERIES, WET, FILLED WITH ACID, 8</td>
</tr>
</tbody>
</table>

**IMDG Code**

<table>
<thead>
<tr>
<th>UN-No.</th>
<th>Proper Shipping Name</th>
<th>Hazard Class</th>
<th>Classificaton code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN3164</td>
<td>BATTERIES, WET, FILLED WITH ACID</td>
<td>8</td>
<td>C11</td>
<td>UN2824 BATTERIES, WET, FILLED WITH ACID, 8</td>
</tr>
</tbody>
</table>

**ADR**

<table>
<thead>
<tr>
<th>UN-No.</th>
<th>Proper Shipping Name</th>
<th>Hazard Class</th>
<th>Classificaton code</th>
<th>Tunnel restriction code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN3164</td>
<td>BATTERIES, WET, FILLED WITH ACID</td>
<td>8</td>
<td>C11</td>
<td>(P)</td>
<td>UN2824 BATTERIES, WET, FILLED WITH ACID, 8</td>
</tr>
</tbody>
</table>

**ADN**

<table>
<thead>
<tr>
<th>UN-No.</th>
<th>Proper Shipping Name</th>
<th>Hazard Class</th>
<th>Classificaton code</th>
<th>Special Provisions</th>
<th>Limited Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN2824</td>
<td>BATTERIES, WET, FILLED WITH ACID</td>
<td>8</td>
<td>C11</td>
<td>250, 500</td>
<td>1000</td>
</tr>
</tbody>
</table>

**International Inventories**

<table>
<thead>
<tr>
<th>Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complex</td>
</tr>
</tbody>
</table>

**US Federal Regulations**

- TSCA
- DSL

**TSCA - United States Toxic Substances Control Act Substances Inventory**
- DSL/DSC/DSL - Canadian Domestic Substances List/Northern Domestic Substances List
### SARA 302

Section 302 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) requires that certain chemicals be subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Weight %</th>
<th>SARA 302 - Threshold Values %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium orth</td>
<td>7607-12-9</td>
<td>12.40</td>
<td>1.0</td>
</tr>
<tr>
<td>Lead - 4436-49-1</td>
<td>4436-49-1</td>
<td>18.40</td>
<td>3.1</td>
</tr>
<tr>
<td>Lead oxide</td>
<td>1309-94-9</td>
<td>15.0</td>
<td>2.4</td>
</tr>
<tr>
<td>Total oxide</td>
<td>7645-97-3</td>
<td>12.5</td>
<td>3.1</td>
</tr>
</tbody>
</table>

### SARA 311/312 Hazard Categories

- Acute Health Hazard
- Chronic Health Hazard
- Fire Hazard
- Sudden release of pressure hazard
- Reactive Hazard

### CWA (Clean Water Act)

The following substances are subject to environmental protection under the Clean Water Act 40 CFR 122.4 and 40 CFR 122.42:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CWA - Repealable Quantities</th>
<th>CWA - Finicky Pollutants</th>
<th>CWA - Ministry Pollutants</th>
<th>CWA - Hazardous Substances</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium orth</td>
<td>1050 L</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Lead</td>
<td>7654-98-5</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Lead oxide</td>
<td>1309-94-9</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Lead nitrate</td>
<td>7439-98-3</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Lead oxide</td>
<td>7439-98-3</td>
<td></td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

### CERCLA

This material is exempted, containing one or more substances regulated as hazardous substances under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) (42 CFR 390).

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Hazardous Substance RQ</th>
<th>Extremely Hazardous Substance RQ</th>
<th>RQ</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium orth</td>
<td>1050 L</td>
<td>1050 L</td>
<td>RO-100X b the ROJ</td>
</tr>
<tr>
<td>Lead</td>
<td>7654-98-5</td>
<td>10 L</td>
<td>RO-10 L inc ROJ</td>
</tr>
<tr>
<td>Lead oxide</td>
<td>1309-94-9</td>
<td>10 L</td>
<td>RO-10 L inc ROJ</td>
</tr>
</tbody>
</table>

### US State Regulations

**California Proposition 65:**

This product contains the following Proposition 65 chemicals:

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>California Proposition 65</th>
</tr>
</thead>
<tbody>
<tr>
<td>L-446-44-2</td>
<td>Carcinogen</td>
</tr>
<tr>
<td>7654-98-5</td>
<td>Hormone Reproductive</td>
</tr>
<tr>
<td>7645-97-3</td>
<td>Non-carcinogen</td>
</tr>
<tr>
<td>7439-98-3</td>
<td>Non-carcinogen</td>
</tr>
<tr>
<td>7439-98-3</td>
<td>Non-carcinogen</td>
</tr>
</tbody>
</table>

### U.S. State Right-To-Know Regulations

Page 12/13
### Chemical Name

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
<th>Rhode Island</th>
<th>Illinois</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Sulfuric acid</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Lead paraox</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Lead sulfate</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

### International Regulations

#### Mexico

**National occupational exposure limits**

<table>
<thead>
<tr>
<th>Component</th>
<th>Carcinogen Status</th>
<th>Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>A2</td>
<td></td>
<td>Mexico: 1.5 mg/m³</td>
</tr>
<tr>
<td>A3</td>
<td></td>
<td>Mexico: 10 mg/m³</td>
</tr>
</tbody>
</table>

#### Canada

- **WHMIS Hazard Class**
  - E - Corrosive material

### OTHER INFORMATION

- **NFPA**
  - Health Hazards: 3
  - Flammability: 0
  - Instability: 0
  - Physical and Chemical Hazards: X

- **HMIS**
  - Health Hazards: 0
  - Flammability: 0
  - Physical Hazard: 0
  - Personal Protection: X

**Prepared By**

Product Stewardship
23 British American Blvd.
Latham, NY 12110
1-800-572-4601

**Issuing Date**

29-Apr-2015

**Revision Date**

25 Apr 2015

**Revision Note**

No information available

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide to assist handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other ingredients or in any process, unless specified in the text.

**End of Safety Data Sheet**
HAZMAT AGREEMENT

WHEREAS, The County of Door, hereinafter called “County” desires to enter into a contract with the Brown County Hazardous Materials Response Team, hereinafter called “Hazmat Team”, to provide response to incidents involving hazardous materials, now therefore, we mutually agree to the following provisions:

I. **Responsibilities of the “Hazmat Team”**
   A. To respond to incidents involving hazardous materials that are Geographically located within the County
   B. To provide services to contain and control hazardous materials releases.
   C. To provide technical advice to the County in regards to the control and mitigation of hazardous materials releases.
   D. To assure that all personnel of the “Hazmat Team” working at a Hazardous materials incident are, at least, trained and certified as “Hazardous Materials Technicians.”

II. **Responsibility of the County**
   A. To provide initial response and evaluation to all hazardous materials incidents within the geographical boundaries of the County with personnel trained to the “First Responder Level” for hazardous materials incidents.
   B. To provide a person trained as an Incident Commander (IC) for all incidents who shall be in overall control of the incident and coordinate the activities of local agencies and the “Hazmat Team”.
   C. To provide ancillary services for the “Hazmat Team” such as, adequate water supply, scene lighting, security, etc.
   D. To pay Brown County Emergency Management any labor or supply costs incurred by Brown County Emergency Management in association to an actual response. Said payment will be made within 60 calendar days of the receipt of the bill.

III. **Request for Service**
    
    Request for services under this agreement shall be made by the IC, or their designee, to the Brown County Public Safety Communications Center.

IV. **Indemnity**
    
    The County agrees that it will at all times during the existence of this agreement indemnify Brown County, the participating municipalities, and their employee members of the “Hazmat Team” that may sustain, incur, or be required to pay by reason of any person suffering any personal injury, death or property loss resulting from the acts or omissions of members of the “Hazmat Team” under this agreement; however, the provisions of this paragraph shall not apply to liabilities, losses, charges, costs or expenses caused by a member of the “Hazmat Team” while not furnishing services under this agreement.

V. **Terms of Agreement**
    
    This agreement shall become effective upon execution and continue for the calendar year and shall be automatically renewed on an annual basis, unless within 90 days of the anniversary date
of the initial term (TBD) or any annual term thereafter, the governing body of the County notifies the Emergency Management Director of Brown County that it is terminating participation or the Board of Directors of the “Hazmat Team” notifies the County it is terminating the agreement.

Dated this (day) of (month), 2019

________________________________   ________________ ________________
Door County Board Chairman    Brown County Executive

_________________________________  ________________ ________________
Door County Administrator    Brown County Emergency Managment