AGENDA

Eau Claire County
Local Emergency Planning Committee
Thursday, June 23, 2022, at 4:00 p.m.
Eau Claire County Government Center
721 Oxford Avenue, Eau Claire • Room 3312

For those wishing to make public comment, you can submit your request to speak and/or written comment to Sam Simmons at Sam.Simmons@eauclairecounty.gov at least 60minutes prior to the start of the meeting.

1. Call to Order and confirmation of meeting notice
2. Public Comment
3. Election of LEPC Chair – **Discussion/Action**
4. Election of LEPC Vice Chair – **Discussion/Action**
5. Appointment of LEPC Clerk – **Discussion/Action**
6. Appointment/Reappointments to the LEPC – **Information/Discussion**
    a. Katherine Schneider (Appointment – County Board)
    b. Kyle Johnson (Appointment – County Board)
    c. Jack Running (Reappointment)
    d. Jason Knecht (Reappointment)
    e. Jim Hager (Reappointment)
    f. Matthew Jaggar (Appointment – Replacing Steve Vargo)
7. Review/Approval of Committee Meeting Minutes – **Discussion/Action** ***Pages 2 - 4***
    a. February 17, 2022
8. Review/Approval of 2022 Sulfuric Acid Battery Plan – **Discussion/Action** ***Pages 5 - 45***
9. Review/Approval of Off-Site Emergency Response Plans – **Discussion/Action**
    a. Airgas USA, LLC ***Pages 46 - 72***
    b. Curt Group ***Pages 73 - 108***
10. Emergency Management Updates **– Information/Discussion**
11. Local Hazardous Materials Spill Response Team Report **– Information/Discussion**
12. Next Meeting Date: To Be Determined – **Information**
13. Adjourn

Prepared by: Sam Simmons – Emergency Management Program Assistant

Please note: Upon reasonable notice, efforts will be made to accommodate the needs of disabled individuals through sign language, interpreters or other auxiliary aids. For additional information or to request the service, contact the County ADACoordinator at 839-6945 (FAX) 839-1669 or (TDD) 839-4735 or by writing to the ADA Coordinator, Human Resources Department, Eau Claire County Courthouse, 721 Oxford Ave., Eau Claire, Wisconsin 54703.

MINUTES
Eau Claire County
Local Emergency Planning Committee
Thursday, February 17, 2022, at 4:00 p.m.
Hybrid Meeting

Present: Robin Leary, Benjamin Frederick, Darrell Christy, Jack Running, Don Henning, Steve Vargo, Marisa Stanley, Robert King, Frank Neibauer, Thomas Lochner

Absent: Nathan Otto, Jason Knecht, Jamie Burkhardt, Diane Hunter, James Hager

Others: Tyler Esh, Sam Simmons – Committee Clerk

Call to Order and confirmation of meeting notice

Chair Christy called the meeting to order at 4:00 p.m. and confirmed that the meeting was noticed.

Roll Call

The roll was called by the clerk, and it is noted above under present. A quorum was confirmed.

Election of LEPC Vice Chair

Chair Christy opened nominations for Vice Chair of the LEPC. Don Henning nominated Frank Neibauer as Vice Chair. No other nominations were made. Chair Christy closed nominations. Motion by Jack Running, seconded by Supervisor Leary to elect Frank Neibauer as Vice Chair of the LEPC. All in favor, motion carried.

Review/Approval of Committee Meeting Minutes

The Committee reviewed the minutes from September 16, 2021 with no deletions, additions, or corrections. Robert King asked about the Menards facility discussion from the meeting.

Review/Approval of 2022 Hazardous Materials Strategic Plan

Tyler Esh, Emergency Management Coordinator, outlined the Plan to the Committee. No changes were added to the plan for 2022 with the exception of the four attachments. Sam Simmons, Emergency Management Program Assistant, noted the addition of two planning facilities. Motion by Frank Neibauer, seconded by Robert King, to approve the 2022 Hazardous Materials Strategic Plan with no deletions, additions, or corrections. All in favor, motion carried.

Review/Approval of LEPC Bylaws

Tyler Esh noted that the LEPC Bylaws have not changed in several years. However, Emergency Management staff found that the Bylaws state that a quorum for an LEPC meeting is 50% of members present, rather than 50% plus one present. Motion by Supervisor Leary, seconded by Frank Neibauer to approve the LEPC Bylaws. All in favor, motion carried.

LEPC Compliance Inspector Designation for FFY 2022

Tyler Esh noted that each fiscal year, the LEPC must designate a Compliance Inspector for EPCRA planning. Historically, this has been assigned to Wisconsin Emergency Management. Motion by Don Henning, seconded by Robert King to designate Wisconsin Emergency Management as the LEPC Compliance Inspector for FFY 2022. All in favor, motion carried.

Review/Approval of Off-Site Emergency Response Plans

a. **Diversey, Inc**

Sam Simmons informed the Committee that Diversey, Inc staff updated their off-site plan with the only changes being contact information. Mr. Simmons also noted that the facility has their own internal emergency response plan which is included as an appendix. No other changes were noted. Motion by Jack Running, seconded by Supervisor Leary to approve the Diversey, Inc. Off-Site Emergency Response Plan with no deletions, additions, or corrections. All in favor, motion carried.

Emergency Management Updates

Tyler Esh updated the Committee on the following items regarding Emergency Management:

- Beginning in January 2022, Emergency Management now has two full-time staff. This prompted a change to the County Code to designate the Director of Eau Claire County Planning & Development as the number three Emergency Management staff in the event both staff are unavailable. The update has been approved by the County Board.
- There are several upcoming trainings being held, including a class for local elected leaders. The Committee is encouraged to contact Emergency Management staff if interested in these trainings.
- In August, a full-scale emergency exercise will be held at the Chippewa Valley Regional Airport. This scenario will involve a simulated gas leak with injuries. Robert King, Mayo Clinic Emergency Management, would like to participate.
- Emergency Management will have a new Emergency Operations Center in the new County Highway facility. Staff plans to hold an exercise simulating a long-term power outage at the new facility in late 2022 or early 2023.
- Emergency Management staff continues to work with new officials in the area, including the new Police and Fire chiefs for the Village of Fall Creek.
- The first flood outlook issued by the National Weather Service for Spring 2022 shows a minimal chance of significant flooding for Eau Claire County.

Local Hazardous Materials Spill Response Team Report

Steve Vargo, City of Eau Claire Fire Department updated the Committee on the latest hazardous materials incidents:

- There have been 108 total incidents since September 2021.
- 20 events were CO related.
- 31 events were gas leaks, this is up from typical gas leak numbers.
- 10 events were gasoline related.
- 8 events were hazmat related.
- 5 events were oil or other chemical spill.
- 9 events were classified as “other”.

Appointment/Reappointments to the LEPC

a. **Nathan Otto (Replacing Ray Henning)**

This agenda item was addressed after the Public Comment period at the request of the Chair. Chair Christy welcomed County Board Supervisor Nathan Otto as the newest member of the LEPC. Supervisor Otto was not present at the meeting for comment.

Next Meeting Date

The Committee agreed on the next meeting to be held in either May or June of 2022 on a date to be determined. Sam Simmons mentioned that the new County Sulfuric Acid Battery plan, along with other off-site response plans, should be ready for review at that time.

Adjourn

Motion by Supervisor Leary, seconded by Marisa Stanley to adjourn the meeting. All in favor.

Meeting adjourned at 4:33 p.m.

Respectfully Submitted,

Sam Simmons – Clerk, Local Emergency Planning Committee

EPCRA HAZARDOUS MATERIAL COUNTY WIDE SULFURIC ACID BATTERY PLAN

TRANSMITTAL FORM AND REVIEW GUIDE

POW FFY 2022

COUNTY: Eau Claire

NEW ☑ UPDATE ☐ FINAL UPDATE ☐

STATEMENT OF PLANNING PROCESS

This County Wide Plan has been prepared in accordance with state and local requirements and is ready to be made a part of the County Emergency Operations Plan (EOP) / Emergency Response Plan (ERP) upon Wisconsin Emergency Management (WEM) / State Emergency Response Commission (SERC) acceptance. This plan meets the facility off-site planning guidance as established by WEM / SERC. Acceptance of this plan is for planning purposes and does not verify facility compliance with the requirements of EPCRA.

COUNTY SIGNATURES

I have reviewed the attached plan and to the best of my knowledge, all information is true, accurate, and complete.

County Local Emergency Planning Committee Chair _____ Date _____

County Emergency Management Director _____ Date _____

WEM / SERC ACCEPTANCE:

This plan has been reviewed and meets the off-site planning guidance as established by WEM / SERC.

WEM Regional Director _____ Date _____

NOTE: Facility Off-Site Plan Review Guide attached: Yes ☐ **No** ☐

EPCRA HAZARDOUS MATERIAL COUNTY WIDE SULFURIC ACID BATTERY
PLAN TRANSMITTAL FORM AND REVIEW GUIDE

COUNTY: Eau Claire

NEW ☑ UPDATE ☐ FINAL UPDATE ☐

EPCRA County Wide Sulfuric Acid Battery Plan Elements		Section/Appendix Reference
1)	The facility identification with address.	**Appendix C**
2)	Facility Coordinator / Alternate Coordinator	**Appendix C**
3)	Extremely Hazardous Substances (EHS) chemicals Identified with CAS numbers and maximum amount	**Appendix C**
4)	Primary emergency responders identified	**Appendix C**
5)	Support and resources available from facility	**Appendix C**
6)	General Information / Assumptions (Disclaimer)	**Section I**
7)	Hazard analysis summary	**Section IV and Appendix C**
8)	Special facilities affected	**Section VI**
9)	Population protection	**Section V**
10)	Special considerations	**Section VII**
11)	Site Plan / Facility Layout	**Appendix C**

EPCRA HAZARDOUS MATERIAL COUNTY WIDE SULFURIC ACID BATTERY PLAN

TRANSMITTAL FORM AND REVIEW GUIDE

COUNTY: Eau Claire

NEW ☑ UPDATE ☐ FINAL UPDATE ☐

12) Distribution list: **Section VIII**

Facility

Local Fire Departments

Eau Claire County Emergency Management/Local Emergency Planning Committee

Select County Hazmat team

Wisconsin Emergency Management Regional Office

13) Required Attachments

A. Vulnerability Zone map highlighting special facilities **NA - <0.1 miles**

B. Safety Data Sheet (SDS) for each EHS **Attachment A**

C. Vulnerability Zone Calculations **Section IV**

D. Transportation route(s) map **Attachment B**

EAU CLAIRE COUNTY

COUNTY WIDE

SULFURIC ACID BATTERY PLAN

Eau Claire County Emergency Management
Eau Claire, Wisconsin

FFY 2022

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Attachments:

A. Sulfuric Acid Safety Data Sheet (SDS)

B. Maps

C. Facility Battery Plans

EAU CLAIRE COUNTY
COUNTY WIDE SULFURIC ACID BATTERY PLAN

I. Introduction/General Information

A. General Information

This County Wide Battery Plan will cover facilities with only batteries present on site using sulfuric acid in an electrolyte solution that meets the planning notification requirements of the Emergency Planning and Community Right-to-Know Act (EPCRA). The information in this plan has been organized in a manner to be user friendly to emergency responders.

A hazardous materials response would use the Incident Command System (ICS) to ensure that all responders and their support assets are coordinated for an effective and efficient response, which is necessary to (1) save lives, and (2) mitigate property and environmental damage. Certain resources are identified which can provide specialized hazardous materials response equipment and capabilities. Personal protective equipment and devices such as respiratory protective devices, clothing, equipment, etc., will be utilized, as the incident requires.

B. Plan Limitations

This Countywide Battery Plan meets the minimum EPCRA planning requirements that were first referenced in the "Guide for Complying with SARA Hazardous Materials Off-Site Planning Requirements" (September 1989). The vulnerability zones set forth in this Plan are based on the EPA's Technical Guidance for Hazardous Analysis. The zones are based on a credible worst-case scenario and identify the potential area for impact should an air-borne release of electrolyte solution with sulfuric acid occur.

The vulnerability zones are NOT intended to be used as a guide for population protection in fire-related incidents. Fire incidents were not considered in the development of this plan and the plan provides basic information about the facility for first responders to employ. However, in an actual fire situation at this facility, the Incident Commander is strongly recommended to reference the fire department's own individual agency pre-emergency plans and standard operation procedures as well as Eau Claire County's Emergency Operations Plan (EOP).

C. County Specific Information

Emergency Support Function (ESF) 4: Firefighting, as they may relate to this facility when making decisions at an incident involving fire. Additional resource materials should be utilized that will assist in the response to a chemical emergency.

Emergency Support Function (ESF) 10: Hazardous Materials

Further, fire departments that would respond to an incident at Battery facilities with batteries containing electrolyte solution of sulfuric acid are strongly encouraged to meet with facility representatives to determine ways to minimize an event at the facility and to determine what additional information and factors should be taken into consideration in the event of a fire, should one occur.

The field incident commander shall determine the actual response to an incident. Vulnerability zones will be determined depending on wind speed and direction, the amount of material released and other pertinent factors.

Alert, Warning, and Emergency Public Information procedures are covered in the Eau Claire County Emergency Operations Plan (EOP) Emergency Support Function (ESF) 2: Communications and Warning.

II. List of Planning Facilities

All facilities use sulfuric acid batteries creating a VULNERABILITY ZONE (Credible Worst Case Scenario) of <0.1 miles or less than 528 feet.

FAC ID #	FACILITY NAME	FACILITY ADDRESS	MUNICIPALITY
120264	American Phoenix, Inc.	800 Wisconsin Street, 11 Eau Claire, Wisconsin 54703	City of Eau Claire
933	AT&T PK0116	310 North Dewey Street Eau Claire, Wisconsin 54703	City of Eau Claire
13019	AT&T PK0106	304 South Dewey Street Eau Claire, Wisconsin 54701	City of Eau Claire
199193	AT&T South Barstow (P10602)	404 South Barstow Street Eau Claire, Wisconsin 54701	City of Eau Claire
198668	WI-23943_Charter Communications_Altoona	1201 McCann Drive Altoona, Wisconsin 54720	City of Altoona
198598	WI-4410_Charter Communications_Eau Claire	1048 Mary Lane Eau Claire, Wisconsin	Town of Union
196827	Great Lakes Coca-Cola	2020 Truax Boulevard Eau Claire, Wisconsin 54703	City of Eau Claire
64496	Eau Claire Cooperative Oil Co.	4970 Kane Road Eau Claire, Wisconsin 54703	Town of Union
202685	Ferguson – 1676	2626 Truax Boulevard Eau Claire, Wisconsin 54703	City of Eau Claire
201315	First Supply LLC – Eau Claire	596 Cameron Street Eau Claire, Wisconsin 54703	City of Eau Claire
202051	Fleet Farm	3165 Old Town Hall Road Eau Claire, Wisconsin 54701	City of Eau Claire
601127	Mayo Clinic Health System – Eau Claire Hospital	1221 Whipple Street Eau Claire, Wisconsin 54702	City of Eau Claire
173687	MCI (EUCRWI) (WIEUCRWI)	333 Putnam Street Eau Claire, Wisconsin 54703	City of Eau Claire
143371	Menard, Inc.	5101 Menard Drive Eau Claire, Wisconsin 54703	Town of Union

161165	Sam's Club	4001 Gateway Drive Eau Claire, Wisconsin 54701	City of Eau Claire
200730	Silver Spring Foods	2424 Alpine Road Eau Claire, Wisconsin 54703	City of Eau Claire
161672	Wal-Mart #1669	3915 Gateway Drive Eau Claire, Wisconsin 54701	City of Eau Claire
99570	Xcel Energy Substation	Old Wells Road Eau Claire, Wisconsin 54703	City of Eau Claire

III. Response/Technical Support

A. Response

Eau Claire County has response elements in place with the ability to meet normal emergency response needs: performing firefighting, hazardous materials response, law enforcement, emergency medical services, and rescue tasks. Eau Claire County does have equipment and resources available to respond to incidents involving hazardous materials.

The City of Eau Claire Fire Department Hazardous Materials Response Team serves as the State Regional Hazardous Materials Response Team and is available to provide hazardous materials response to communities in Eau Claire County.

Other local hazardous materials response resources include:

i. Eau Claire County Hazardous Materials Team located at: City of Eau Claire Fire Department

ii. Eau Claire County's Municipal Fire Departments are located at:

- Altoona Fire Department
- Augusta-Bridge Creek Fire Department
- Boyd Fire Department
- DNR Wildland Fire
- Eau Claire Fire Department
- Fairchild Fire Department
- Fall Creek Area Fire District
- Mondovi Fire Department
- Osseo Rural Fire Department
- Stanley Fire Department
- Strum Fire Department
- Township Fire Department

B. Technical Support

Safety Data Sheets (SDS) for the battery electrolyte solution with sulfuric acid present in Eau Claire County battery planning facilities are located in Attachment A of this plan for:

- Battery – Retail Sales
- Battery – UPS (uninterruptable power supply)
- Battery – Material Handling Equipment
- Battery – Mobility Equipment
- Battery – Other

The following entities may be of assistance in the event of an incident involving the battery electrolyte solution with sulfuric acid:

CHEMTREC	800-424-9300
National Response Center 24-hr phone number	800-424-8802
Wisconsin Emergency Management Duty Officer	800-943-0003
County Hazardous Materials Team	715-839-5012

IV. Vulnerability Analysis

A. Battery Types

- Retail Sales
- UPS (uninterruptable power supply)
- Material Handling Equipment
- Mobility Equipment
- Other

B. Assumptions

Vulnerability Zones were determined using the CAMEO program as the result of a release of sulfuric acid from the largest battery or group of batteries within a 10-minute time period. Even in a worst-case scenario, it is improbable that all the electrolyte solution with sulfuric acid will be released at one time.

The worst-case scenario for battery facilities with sulfuric acid present in electrolyte solution would involve the following: the largest battery or shipment of batteries is destroyed during a catastrophic event releasing sulfuric acid in a 30% or less concentration battery electrolyte solution. According to calculations derived from using CAMEO for Hazard Analysis, a release of sulfuric acid in a 30% or less concentration would pose a hazard of less than 0.1 mile or 528 feet.

In a worst-case scenario (duration: 10 minutes; wind speed: 3.35 mph; ground: urban; stability class: F; LOC: 0.008 gm/m^3) a release of battery electrolyte solution with sulfuric acid would result in a vulnerability zone that would stay within the perimeter of the facility and would not affect any special facilities. Each battery planning facility that utilizes battery electrolyte solution with sulfuric acid has a facility on-site emergency plan. Access to the facilities creates no problems as all streets are two-way and are not major traffic routes.

V. Evacuation/Sheltering

The determination to shelter in place or evacuate will be made by the on-scene commander, as appropriate. Under some circumstances 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.

General Evacuation/Shelter Procedures are covered in the Eau Claire County Emergency Response Plan (EOP) Emergency Support Function (ESF) 1 includes definitions of safety procedures and lists primary agencies and their responsibilities for shelter-in-place procedures. If evacuation is deemed necessary, experience indicates that shelter space would be needed for only 30% of the population within the initial isolation and evacuation zones and the remaining 70% would seek shelter with family or friends outside the risk zone.

VI. Special Facilities

No Special Facilities are affected. In a credible worst-case scenario, a release of battery electrolyte solution with sulfuric acid would result in a vulnerability zone that would stay within the perimeter of the facility and would not affect any special facilities. Each Battery planning facility utilizing batteries that contain electrolyte solution with sulfuric acid has a facility on-site emergency plan and designated hazardous materials clean up contractor.

VII. Transportation/Special Considerations

Hazardous materials in transport move through Eau Claire County in significant quantities each day. There is one major interstate highway, I94, and several major state highways. A Transportation Route Map of Eau Claire County is included in Attachment B.

Note: There are no local ordinances in Eau Claire County that mandate specific routes for vehicles carrying EHSs. Thus, EHSs may be transported over any local, state or federal highway for which weight limits are met.

VIII. Distribution List

Facilities
Local Fire Department(s)
Eau Claire County Emergency Management/Local Emergency Planning Committee
Eau Claire County Hazmat Team
Wisconsin Emergency Management West Central Regional Office

COUNTY WIDE SULFURIC ACID BATTERY PLAN: EAU CLAIRE COUNTY

ATTACHMENT A – Sulfuric Acid Safety Data Sheet (SDS)

GHS Safety Data Sheet

Revision Issued: 6/08/2014 Supercedes: 3/26/2013 First Issued: 1/02/1986

Section 1 - Chemical Product And Company Identification

Product Identifier: Sulfuric Acid (15%-93%)
Synonyms/Common Names:
H2SO4; Oil of Vitriol; Spirit of Sulfur; Hydrogen Sulfate; Oleum
Product Use & Restrictions: Refer to label

CAS Number: 7664-93-9 HBCC MSDS No. CS18100

Hill Brothers Chemical Company
1675 No. Main Street, Orange, California 92867
Telephone No: 714-998-8800 | Outside CA: 800-821-7234
Emergency: Chemtrec: 800-424-9300

Section 2 - Hazard Identification

Classifications of the Product:
Skin Corrosion/Irritation – Category 1
Serious Eye Damage/Eye Irritation – Category 1
Corrosive to Metals – Category 1

Labels | Signal Word: DANGER

Pictograms:
Hazard Statements:
H314: Causes severe skin burns and eye damage
H290: May be corrosive to metals

Precautionary Statements:
P280: Wear protective gloves. Wear eye or face protection. Wear protective clothing.
P264: Wash hand thoroughly after handling.
P304 + P340 + P310: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician.
P301 + P310 + P330 + P331: IF SWALLOWED: Immediately call a POISON CENTER or physician.
P303 + P361 + P353 + P363 + P310: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or physician.
P305 + P351 + P338 + P310: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Immediately call a POISON CENTER or physician.
P405: Store locked up.

P501: Dispose of contents and container in accordance with all local, regional, national and international regulations.

Section 3 – Composition/Information on Ingredients

Chemical Name: Sulfuric Acid
Synonyms/ Common Names: H_2SO_4; Oil of Vitriol; Spirit of Sulfur; Hydrogen Sulfate; Oleum
CAS Number: 7664-93-9

Section 4 - First Aid Measures

Ingestion: If liquid sulfuric acid or solutions containing sulfuric acid have been swallowed and the person is conscious, give him 8 oz. of water or milk of water or milk to children under 5), immediately to dilute the sulfuric acid. Do NOT induce vomiting. Do not attempt to make the exposed person vomit. Do not leave victim unattended. GET MEDICAL ATTENTION IMMEDIATELY.
Inhalation: If a person breathes in large amounts of sulfuric acid, move the exposed person to fresh air at once. If breathing has stopped, perform artificial respiration. If breathing is difficult, give oxygen. Keep the affected person warm and at rest. GET MEDICAL ATTENTION AS SOON AS POSSIBLE.
Skin: If liquid sulfuric acid or solutions containing sulfuric acid get on the skin, immediately flush the contaminated skin with water for at least 15 minutes. If skin surface is damaged, apply a clean dressing. If liquid sulfuric acid or solutions containing sulfuric acid penetrate through the clothing, immediately remove the clothing, shoes and constrictive jewelry under a safety shower and continue to wash the skin for at least 15 minutes. GET MEDICAL ATTENTION IMMEDIATELY.
Eyes: If liquid sulfuric acid or solutions containing sulfuric acid get into the eyes, flush eyes immediately with a directed stream of water for at least 30 minutes while forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissue. GET MEDICAL ATTENTION IMMEDIATELY. Contact lenses should not be worn when working with this chemical.
Medical Conditions Generally Aggravated by Exposure: Persons with pre-existing skin disorders and/or respiratory disorders (e.g. Asthma-like conditions) may be more susceptible to the effects of this material, and may be aggravated by exposure to this material.
Summary of Acute Health Hazards: Concentrated sulfuric acid will effectively remove the elements of water from many organic materials with which it comes in contact. It is even more rapidly injurious to mucous membranes and exceedingly dangerous to the eyes.
Ingestion: Corrosive. Causes serious burns of the mouth or perforation of the esophagus or stomach. May be fatal if swallowed.
Inhalation: Corrosive and highly toxic. May be harmful or fatal if inhaled. May cause severe irritation and burns of the nose, throat and respiratory tract.
Skin: Corrosive. Splashes on the skin will cause severe skin burns. Burning and charring of the skin are a result of the great affinity for, and strong exothermic reaction with, water. Direct contact can be severely irritating to the skin and may result in redness, swelling, burns and severe skin damage.
Eyes: Corrosive. Direct contact with the liquid or exposure to vapors or mists may cause stinging, tearing, redness, swelling, corneal damage and irreversible eye damage. Splashes in the eyes will cause severe burns. Contact lenses should not be worn when working with this chemical.
Effects of Overexposure: May cause severe irritation and burns of the mouth,

nose, throat, respiratory and digestive tract, coughing, nausea, vomiting, abdominal pain, chest pain, pneumonitis (inflammation of the fluid in the lungs), pulmonary edema (accumulation of the fluid in the lungs), and perforation of the stomach. Overexposure to acid mists has been reported to cause erosion to tooth enamel.
Note to Physicians: Sulfuric acid is reported to cause pulmonary function impairment. Periodic surveillance is indicated. Sulfuric acid may cause acute lung damage. Surveillance of the lungs is indicated. Ingestion may cause gastroesophageal perforation. Perforation may occur within 72 hours, but along with abscess formation, can occur weeks later. Long term complications may include esophageal, gastric or pyloric strictures or stenosis.

Section 5 - Fire Fighting Measures

Extinguishing Media: Fires involving small amount of combustibles may be smothered with suitable dry chemical, soda ash, lime, sand or CO2. Use water on combustibles burning in vicinity of this material but use care as water applied directly to this acid result in evolution of heat and causes splattering.
Unusual Fire and Explosion Hazards: Not flammable but highly reactive and capable of igniting finely divided combustible materials on contact. Reacts violently with water and organic materials with evolution of heat. If involved in fire, may release hazardous oxides of sulfur. Vapors are heavier than air and may accumulate in low areas. Containers exposed to extreme heat may rupture due to pressure buildup. Contact with common metals may generate hydrogen, which can form flammable mixture with air. Fire may produce irritating, corrosive, and/or toxic gases.
Special Firefighting Procedures: Causes severe, deep burns to tissue; very corrosive effect. Sulfuric Acid is extremely slippery. Emergency responders in the danger area should wear bunker gear and self-contained breathing apparatus for fires beyond the incipient stage (29CFR 1910.156). In addition, wear other appropriate protective equipment as conditions warrant (see Section 8). Water reactive. Contact with water may generate heat. Isolate damage area, keep unauthorized personnel out. If tank, railcar, or tank truck is involved in a fire, isolate for ½ mile in all directions. Consider initial evacuation for ½ mile in all directions. Stop spill/release if it can be done with minimal risk. Move undamaged containers from danger area if it can be done with minimal risk. Fires involving small amounts of combustibles may be smothered with suitable dry chemicals. Use water on combustibles burning but avoid using water directly on acid as it results in evolution of heat and causes splattering.
NFPA Rating: Health - 3; Flammability - 0; Instability – 2; Special Hazard: -W-
0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme

Section 6 - Accidental Release Measures

Personal Precautions: If sulfuric acid is spilled or leaked, ventilate area. Stay upwind and away from spill release. Avoid discharge into drains, water courses or onto the ground. Persons not wearing protective equipment and clothing should be restricted from areas of spills or leaks until cleanup has been completed.
Protective Equipment: Wear appropriate protective equipment including respiratory protection as conditions warrant (see Section 8).
Emergency Procedures: Use Caution around spill area, Sulfuric Acid is extremely slippery.
Methods of Containment and Clean-Up: Collect spilled or leaked material in the most convenient and safe manner for reclamation or for disposal in a secured sanitary landfill. Sulfuric acid should be absorbed in vermiculite, dry sand, earth, or a

similar material. It may also be diluted and neutralized. Add slowly to solution of soda ash and calcium hydroxide aka: slaked lime with stirring.

Section 7 - Handling and Storage

Safe Handling: Protect against physical damage and water. Keep containers closed. Sulfuric Acid is extremely slippery. Do not enter confined spaces such as tanks or pits without following proper entry procedures such as ASTM D-4276.
Storage: To prevent ignition of hydrogen gas generated in metal containers (from metal contact) smoking, open flames and sparks must not be permitted in storage areas. This product has a great affinity for water, abstracting it from the air and also from many organic substances; hence it will char wood, etc. When diluting, the acid should be added to the diluent. Separate from carbides, chlorates, fulminates, nitrates, picrates, powdered metals, and combustible materials. Keep away from strong oxidizing agents including oxygen and chlorine.
Work/Hygienic Practices: Avoid contact with the skin and avoid breathing vapors. Do not eat, drink, or smoke in work area. Wash hands before eating, drinking, or using restroom. Do NOT place food, coffee or other drinks in the area where dusting or splashing of solutions is possible.
Ventilation: General mechanical ventilation (typically 10 air changes per hour) may be sufficient to keep sulfuric acid vapor concentrations within specified time-weighted TLV range. If general ventilation proves inadequate to maintain safe vapor concentrations, supplemental local exhaust may be required.

Section 8 - Exposure Controls/Personal Protection

			Exposure Limits (TWAs) in Air		
Chemical Name	CAS Number	%	ACGIH TLV	OSHA PEL	STEL
Sulfuric Acid (H_2SO_4)	7664-93-9	15-93	0.2 mg/m³	1 mg/m³	3 mg/m³
Sulfur Dioxide	7446-09-5	< 2	2 ppm	5 ppm	5 ppm

Engineering Controls: See Section 7: Ventilation

Personal Protection

Personal Protective Measures: Good industrial hygiene practices recommend that engineering controls be used to reduce environmental concentrations to the permissible exposure level. However, there are some exceptions where respirators may be used to control exposure. Respirators may be used when engineering and work practice controls are not technically feasible, when such controls are in the process of being installed, or when they fail and need to be supplemented. If the use of respirators is necessary, a NIOSH/MSHA approved air purifying respirator with N95 filter may be used under conditions where airborne concentrations are expected to exceed exposure limits (see Section II). Protection provided by air purifying respirators is limited (see manufacturers respirator selection guide). Use a positive pressure air supplied respirator if there is potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection. A respiratory protection program that meets OSHA'a 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.
Protective Clothing: Employees should be provided with and required to use

impervious clothing, gloves, face shields (eight-inch minimum), and other appropriate protective clothing necessary to prevent any possibility of skin contact with liquid sulfuric acid or solutions containing more than 1% sulfuric acid by weight.
Eye Protection: Employees should be provided with and required to use splash-proof safety goggles where there is any possibility of liquid sulfuric acid or solutions containing sulfuric acid contacting the eyes. Contact lenses should not be worn when working with this chemical.
Other Protective Clothing or Equipment: Rubber apron, rubber boots, eyewash stations and safety showers must be available in the immediate work area for emergency use.

Section 9 - Physical and Chemical Properties

Appearance: Colorless to dark brown
Odor: Odorless
Odor Threshold: > 1 mg/m^3
pH: 0.3 (1N Solution)
Melting Point/Freezing Point: 11°C; 51.8°F
Initial Boiling Point/Range: 337°
Flash Point: Non-flammable
Evaporation Rate (N-Butyl Acetate=1): < 1
Flammability: N/A
Upper/Lower Explosive Limit: N/A
Vapor Pressure(mmHg): <0.00120 mm
Vapor Density(Air=1): 3.4
Relative Density: N/A
Solubility in Water: 100%
Partition Coefficient: N/A
Autoignition Temperature: N/A
Decomposition Temperature: N/A
Viscosity: N/A

% Acid	15	20	30	35	36	40	50	72	75-93
Specific Gravity	1.105	1.14-1.15	1.23	1.27	1.27	1.3	1.4	1.63	1.67-1.84
Weight/Gallon in Lbs.	9.213	9.5	10.246	10.55	10.6	10.89	11.73	13.6	13.9-15.4

Molecular Weight: 98
% Volatiles: Negligible
How to detect this compound: Sampling and analyses may be performed by collection of sulfuric acid on a cellulose membrane filter, followed by extraction with distilled water and isopropyl alcohol, treatment with perchloric acid, and titration with barium perchlorate. Also, detector tubes certified by NIOSH under 42 CFR Part 84 or other direct-reading devices calibrated to measure sulfuric acid may be used.

Section 10 - Stability and Reactivity

Reactivity, Chemical Stability, Possibility of Hazardous Reactions or Polymerization: Sulfuric Acid reacts vigorously, violently or explosively with many organic and inorganic chemicals and with water. Hazardous Polymerization will not occur.
Conditions to Avoid: Temperatures above 150°F. Exposure to moist air or water.
Incompatibilities Materials: Contact of acid with organic materials (such as chlorates, carbides, fulminates, and picrates), alkaline materials and water may cause fires and explosions. Contact of acid with metals may form toxic sulfur dioxide fumes and flammable hydrogen gas. Contact with hypochlorites (e.g., chlorine bleach), sulfides, or cyanides will produce toxic gases.
Hazardous Decomposition Products: Toxic gases and vapors (such as sulfuric

acid fume, sulfur dioxide, and carbon monoxide) may be released when sulfuric acid decomposes. Decomposes to water and sulfur trioxide above 644°F.

Section 11 - Toxicological Information

Routes of Exposure: Sulfuric acid can affect the body if it is inhaled or if it comes in contact with the eyes or skin. It can also affect the body if it is swallowed. Points of Attack: Sulfuric acid attacks the respiratory system, eyes, skin, teeth, and lungs.

Symptoms related to physical, chemical, and toxicological characteristics: Workers exposed to industrial sulfuric acid mist showed a statistical increase in laryngeal cancer. This suggests a possible relationship between carcinogenesis and inhalation of sulfuric acid mist.

Acute and Chronic Effects: Sulfuric acid mist severely irritates the eyes, respiratory tract, and skin. Concentrated sulfuric acid destroys tissue due to its severe dehydrating action, whereas the dilute form acts as a mild irritant due to acid properties. A worker sprayed in the face with liquid fuming sulfuric acid suffered skin burns of the face and body, as well as pulmonary edema from inhalation. Splashed in the eye, the concentrated acid causes extremely severe damage, often leading to blindness, whereas dilute acid produces more transient effects from which recovery may be complete. Repeated exposure of workers to the mist causes chronic conjunctivitis, tracheobronchitis, stomatitis, and dermatitis, as well as dental erosion. While ingestion of the liquid is unlikely in ordinary industrial use, the highly corrosive nature of the substance may be expected to produce serious mucous membrane burns of the mouth and esophagus.
Numerical Measures of Toxicity: The LC50 of mist of 1-micron particle size for an 8 hour exposure was 50 mg/m³ for adult guinea pigs and 18 mg/m³ for young animals. Continuous exposure of guinea pigs to 2 mg/m³ for 5 days caused pulmonary edema and thickening of the alveolar walls; exposure of guinea pigs to 2 mg/m³ for 1 hour caused an increase in pulmonary airway resistance from reflex bronchoconstriction. Sequelae were pulmonary fibrosis, residual bronchitis, and pulmonary emphysema; in addition, necrosis of the skin resulted in marked scarring. In human subjects, concentrations of about 5 mg/m³ were objectionable, usually causing cough, an increase in respiratory rate, and impairment of ventilatory capacity. Workers exposed to concentrations of 12.6 to 35 mg/m³ had a markedly higher incidence of erosion and discoloration of teeth than was noted in unexposed individuals.
Carcinogenicity Lists:
ACGIH: A2 – Suspected Human Carcinogen (Sulfuric Acid contained in strong inorganic acid mists)
National Toxicology Program (NTP): Known carcinogen (listed as 'Strong inorganic acid mists containing Sulfuric Acid).
International Agency for Research on Cancer (IARC) Monograph: Group 1 carcinogen (Sulfuric Acid)
Occupational Safety & Health Administration (OSHA) Regulated: Yes
Warning
This product contains Sulfuric Acid, listed as 'Strong inorganic acid mists contain', a chemical known to the State of California to cause cancer.

Section 12 - Ecological Information

Ecotoxicity: Fish: Bluegill/Sunfish: 49 mg/L; 48 Hr; TLm (tap water @ 20°C)

Fish: Bluegill/Sunfish: 24.5 ppm; 48 Hr; TLm (fresh water)
Persistence and degradability: Sulfuric acid (98% solution) is soluble in water and remains indefinitely in the environment as sulfate.
Bioaccumulative Potential: Sulfuric acid (98% solution) has low potential for bioaccumulation.
Mobility in Soil: Sulfuric acid (98% solution) is soluble in water and has high mobility in soil. During transport through the soil, sulfuric acid (98% solution) will dissolve some of the soil material; in particular, the carbonate based materials. The acid will be neutralised to some degree with adsorption of the proton also occurring on clay materials. However, significant amounts of acid are expected to remain for transport down towards the ground water table. Upon reaching the ground water table, the acid will continue to move, now in the direction of the ground water flow. Lime addition may be required to rectify low pH resulting from sulfuric acid (98% solution) spillages.

Section 13 - Disposal Considerations

Sulfuric acid may be placed in sealed containers or absorbed in vermiculite, dry sand, earth, or a similar material and disposed. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. Empty containers must be handled with care due to material residue.

Section 14 - Transport Information

UN#:
UN2796, (with not more than 51% acid)
UN1830, (with more than 51% acid)
UN/DOT Proper Shipping Name: Sulfuric Acid
Transport Hazard Class: 8
Packing Group: II
Marine Pollutant: Yes
Transport in Bulk: N/A
Special Precautions: N/A

Section 15 - Regulatory Information

Sulfuric Acid
Section 302 Extremely Hazardous Substance (EHS): CAS # 7664-93-9
1000 Lbs. (454 Kilograms) (85 Gals.) Threshold Planning Quantity (TPQ)
Section 304 Extremely Hazardous Substance (EHS): CAS # 7664-93-9
1000 Lbs. (454 Kilograms) (85 Gals.) Reportable Quantity (RQ)
CERCLA Hazardous Substance: CAS #7664-93-9
1000 Lbs. (454 Kilograms) (85 Gals.) Reportable Quantity (RQ)
SARA 313: This material contains 20-99% Sulfuric Acid (CAS# 7664-93-9), which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373. Sulfuric Acid (acid aerosols including mists, vapors, gas, fog, and other airborne forms of any particle size).
Sulfur Dioxide
Section 302 Extremely Hazardous Substance (EHS): CAS # 7446-09-5
500 Lbs. (227 Kilograms) (42.5 Gals.) Threshold Planning Quantity (TPQ)
Section 304 Extremely Hazardous Substance (EHS): CAS # 7446-09-5
500 Lbs. (227 Kilograms) (42.5 Gals.) Reportable Quantity (RQ)

Section 16 - Other Information

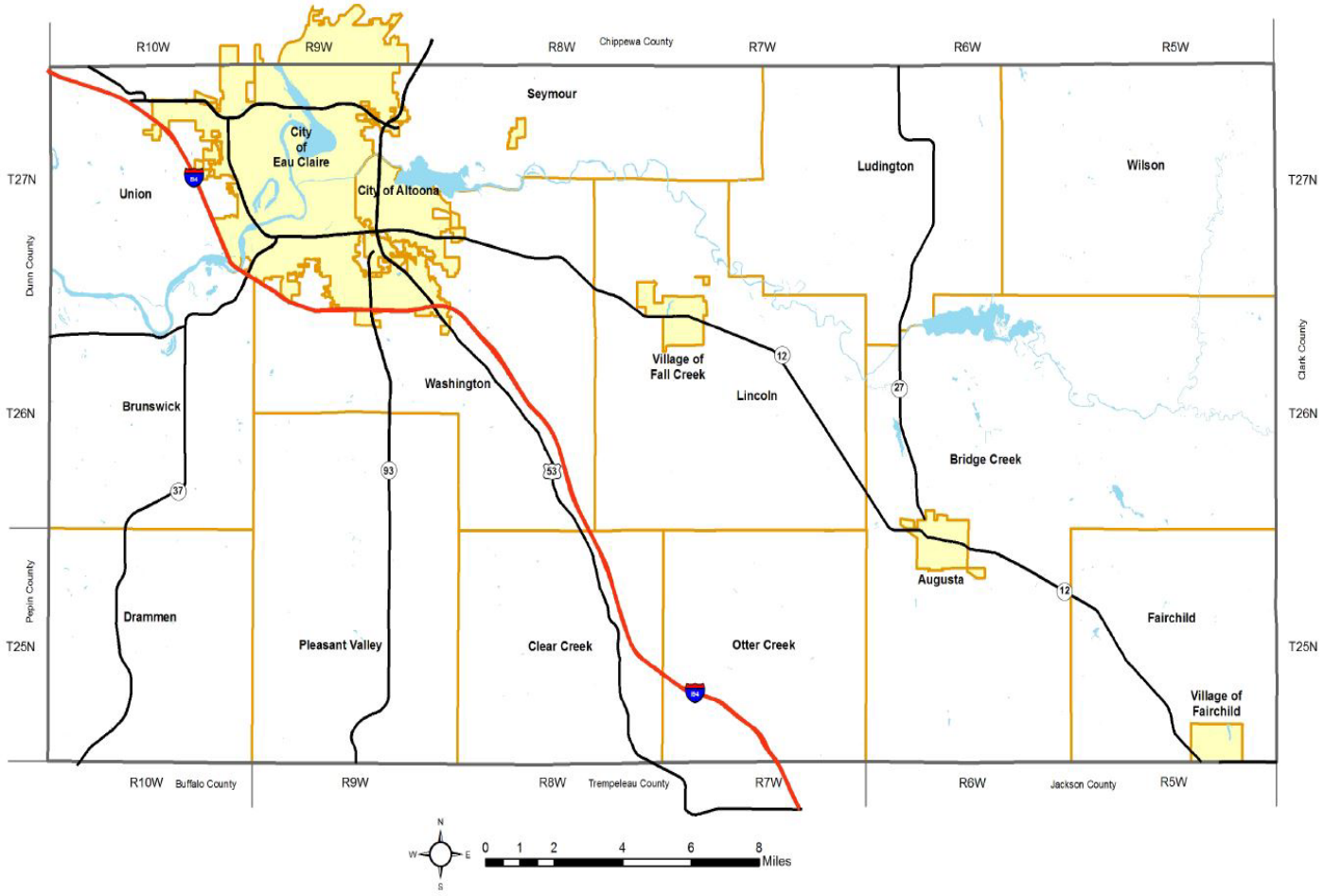
Chemical Family/Type: Inorganic Acid
Sections changed since last revision: 2, 4, 6, 8, 9, 13

IMPORTANT! Read this MSDS before use or disposal of this product. Pass along the information to employees and any other persons who could be exposed to the product to be sure that they are aware of the information before use or other exposure. This MSDS has been prepared according to the OSHA Hazard Communication Standard [29 CFR 1910.1200]. The MSDS information is based on sources believed to be reliable. However, since data, safety standards, and government regulations are subject to change and the conditions of handling and use, or misuse are beyond our control, **Hill Brothers Chemical Company** makes no warranty, either expressed or implied, with respect to the completeness or continuing accuracy of the information contained herein and disclaims all liability for reliance thereon. Also, additional information may be necessary or helpful for specific conditions and circumstances of use. It is the user's responsibility to determine the suitability of this product and to evaluate risks prior to use, and then to exercise appropriate precautions for protection of employees and others.

COUNTY WIDE SULFURIC ACID BATTERY PLAN: EAU CLAIRE COUNTY

ATTACHMENT B – Maps

Transportation Route Map



COUNTY WIDE SULFURIC ACID BATTERY PLAN: EAU CLAIRE COUNTY

ATTACHMENT C – Facility Battery Plans

Appendix for Each Battery Planning Facility

Section II. includes the table of Sulfuric Acid battery planning facilities located within Eau Claire County that meet the requirements of this County Wide Sulfuric Acid Battery Plan. Each of the facilities identified in Section II. have abbreviated sulfuric acid battery plans/appendices present in WHOPRS that includes the facility specific information with regard to their EHS Sulfuric Acid batteries. This Attachment includes Appendices for all facilities identified in Section II.

Planning Cycle

Facility Appendices will be updated during the fiscal year that the facility is scheduled for renewal based on the planning cycle of an update every three years set by Eau Claire County Emergency Management. A listing of facilities and their most recent and upcoming renewal dates are listed below. Note: Facilities that are bolded are being updated in this plan.

Facility ID	Facility	Last Updated	Next Update
120264	American Phoenix, Inc.	FFY 2020	FFY 2023
933	AT&T PK0116	FFY 2021	FFY 2024
13019	AT&T PK0106	FFY 2021	FFY 2024
199193	AT&T South Barstow	FFY 2021	FFY 2024
198668	**Charter – Altoona**	**FFY 2022**	**FFY 2025**
198598	**Charter – Eau Claire**	**FFY 2022**	**FFY 2025**
196827	Great Lakes Coca Cola	FFY 2021	FFY 2024
64496	**Eau Claire Cooperative**	**FFY 2022**	**FFY 2025**
202685	**Ferguson – 1676**	**FFY 2022**	**FFY 2025**
201315	**First Supply, LLC**	**FFY 2022**	**FFY 2025**
202051	**Fleet Farm**	**FFY 2022**	**FFY 2025**
601127	Mayo Clinic – Eau Claire	FFY 2020	FFY 2023
173687	**MCI (EUCRWI)**	**FFY 2022**	**FFY 2025**
143371	Menard, Inc.	FFY 2021	FFY 2024
161165	Sam's Club	FFY 2020	FFY 2023
200730	Silver Spring Foods	FFY 2020	FFY 2023
161672	Wal-Mart #1669	FFY 2020	FFY 2023
99570	Xcel Energy Substation	FFY 2021	FFY 2024

ATTACHMENT C, APPENDIX FOR FACILITY ID #198668
WI-23943_Charter Commications_Altoona Warehouse
1201 McCann Drive
Altoona, WI 54720

Facility Coordinator:
Patrick Chrusciel
Warehouse Supervisor
Work #: 715-214-1191
24 Hr. #: 715-210-4596
Email: patrick.chrusciel@charter.com

1st Alternate Coordinator:
Lynn Severson
Manager
Work #: 608-842-2297
24 Hour #: 608-842-2297
Email: lynn.severson@charter.com

Extremely Hazardous Substance Present:

CAS. NO	CHEMICAL	MAX. AMT.	VUL.ZONE
7664-93-9	*Sulfuric Acid	9,871 lbs.	< 0.1 mi.

*EPA Extremely Hazardous Substance

Assumptions: WI-23943_Charter Commications_Altoona Warehouse is a regional office of Charter Communications. Operations at the facility include a small retail space for customers and employees as well as an office space exclusively for employee use. A warehouse is also located at the facility. The facility has 50,000 square feet of cooled floor space used for storage of products, office use and customer relations. Sulfuric Acid is used in batteries that power an uninterruptable power supply in the event of a failure of electricity. Sulfuric Acid is present at 9,871 lbs in a concentration of 30% or less, battery electrolyte solution. The credible worst-case scenario involves a release of 9,871 lbs of Sulfuric Acid in battery electrolyte solution at a concentration of 30% or less. The result is a vulnerability zone that would stay within the perimeters of the facility and would not affect any special facilities off-site. The maximum number of employees affected is 30 (If you count all of the warehouse employees and other people that work out of the Altoona office. Only the 4 warehouse employees and 2 other people have access to the warehouse).

Scenario: The credible worst-case scenario for release would involve the largest battery/group of interconnected batteries that is damaged during operation releasing 9,871 lbs of Sulfuric Acid in a concentration of 30% or less in a battery electrolyte solution. According to calculations derived from using Cameo for Hazard Analysis, the release would pose a hazard of <0.1 mile or 528 feet.

Primary Emergency Responders:

Altoona Police Department	715-839-6090
Altoona Fire Department	715-839-2970
Eau Claire Fire Department EMS	715-839-5012
Eau Claire County Emergency Management	715-829-8499

Special Resources Available at / from facility:

None at facility.

Eau Claire County has a level B hazardous materials response team. For level A incident, contact West Central Wisconsin Hazardous Response Team through the Wisconsin Emergency Management Duty Officer at 1-800-943-0003.

Special Resources Needed for Response:

The facility will not respond to hazardous materials emergency but will evacuate the facility and await the response to their 911 call. Access points for the facility are located on Devney Drive and McCann Drive.

General:

WI-23943_Charter Commications_Altoona Warehouse operates 1 shift, 5 days per week; (7:30am-4:00pm), 4 employees.

Special Considerations:

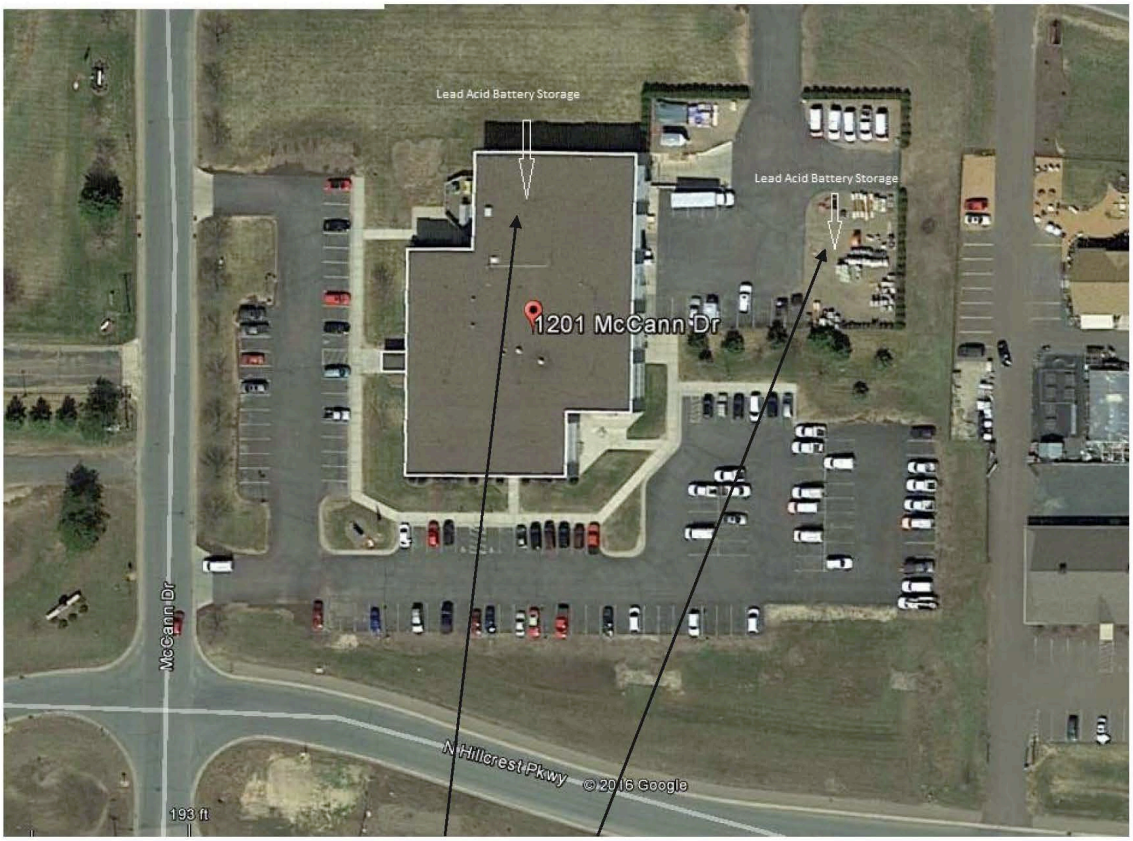
Highway 12 East and West may be affected in the event of a total failure and escape of all Sulfuric Acid on site.

Facility Map Identifying Sulfuric Acid Storage:

Figure-1
Site Plan

ARCADIS Design & Consultancy for natural and built assets

Charter Communications
1201 McCann Drive, Altoona, WI



Lead-Acid Batteries

Project Number

1

NEW [ ] UPDATE [X] FINAL UPDATE [ ]

Facility Signatures:

I have reviewed the attached plan and to the best of my knowledge, all facility information is true, accurate, and complete. The plan is consistent with facility emergency plans and procedures.

Facility Coordinator — Date: 4/4/22

County Signatures:

I have reviewed the attached plan and to the best of my knowledge, all information is true, accurate, and complete.

_____ _____

County Local Emergency Planning Committee Chair — Date

_____ _____

County Emergency Management Director — Date

ATTACHMENT C, APPENDIX FOR FACILITY ID #198598
WI-4410_Charter Communications_Eau Claire
1048 Mary Lane
Eau Claire, WI 54703

Facility Coordinator:
Darwin Thompson
Manager, ISP
Work #: 715-831-8940
24 Hr. #: 715-214-4358
Email: darwin.thompson@charter.com

1st Alternate Coordinator:
Joe Meissner
Vice President, ISP
Work #: 608-467-9216
24 Hour #: 608-598-9367
Email: joe.meissner@charter.com

Extremely Hazardous Substance Present:

CAS. NO	CHEMICAL	MAX. AMT.	VUL.ZONE
7664-93-9	*Sulfuric Acid	6,714 lbs.	< 0.1 mi.

*EPA Extremely Hazardous Substance

Assumptions: WI-4410_Charter Communications_Eau Claire is a process and distribution site for internet, video, network equipment, and VOIP services. Sulfuric Acid is stored in lead batteries in the server rooms. Batteries are replaced at the end of their life cycle in accordance with local, state, and federal law. Sulfuric Acid is present at 6,714 lbs in a concentration of 30% or less, battery electrolyte solution. The credible worst-case scenario involves a release of 6,714 lbs of Sulfuric Acid in battery electrolyte solution at a concentration of 30% or less. The result is a vulnerability zone that would stay within the perimeters of the facility and would not affect any special facilities off-site. If an incident occurs on a weekday, the maximum number of employees affected is five.

Scenario: The credible worst-case scenario for release would involve the largest battery/group of interconnected batteries that is damaged during operation releasing 6,714 lbs of sulfuric acid in a concentration of 30% or less in a battery electrolyte solution. According to calculations derived from using Cameo for Hazard Analysis, the release would pose a hazard of <0.1 mile or 528 feet.

Primary Emergency Responders:

Eau Claire County Sheriff's Office	715-839-4701
Township Fire Department	715-834-6868
Eau Claire Fire Department EMS	715-839-5012
Eau Claire County Emergency Management	715-829-8499

Special Resources Available at / from facility:
Monitored by Charter National Operations Centers (NOC) and has staff on site.

Special Resources Needed for Response:
The facility will not respond to hazardous materials emergency but will evacuate the facility and await the response to their 911 call. There are two access points to the property. Both driveways are located on Mary Lane. The eastern driveway is connected to the principal structure, while the western driveway provides access to the onsite satellite dishes, tower, and accessory building.

General:
WI-4410_Charter Communications_Eau Claire operates five days per week (Monday – Friday) at 24-hour shifts with the weekends being covered by on-call. There is a direct phone number to the facility that is answered when staff is present. The number is: 715-834-2631.

Special Considerations:
The Vulnerability Zone encompasses most of the footprint of the Charter Cable Partners facility, a portion of the road right-of-way, and adjacent properties to the east, but it does not pose a significant danger to homes and businesses in the area. The potentially affected population is approximately 7 houses (21 people).

Facility Map Identifying Sulfuric Acid Storage:

Figure-1
Site Plan

Charter Communications
1048 Mary Lane, Eau Claire, Wi

ARCADIS Design & Consultancy for natural and built assets

1

NEW [ ] UPDATE [X] FINAL UPDATE [ ]

Facility Signatures:

I have reviewed the attached plan and to the best of my knowledge, all facility information is true, accurate, and complete. The plan is consistent with facility emergency plans and procedures.

Darwin R Thompson — Facility Coordinator

3-31-2022 — Date

County Signatures:

I have reviewed the attached plan and to the best of my knowledge, all information is true, accurate, and complete.

_____ _____

County Local Emergency Planning Committee Chair Date

_____ _____

County Emergency Management Director Date

ATTACHMENT C, APPENDIX FOR FACILITY ID #64496
Eau Claire Cooperative Oil Company
4970 Kane Road
Eau Claire, WI 54703

Facility Coordinator:
Joe Alf
Compliance Officer
Work #: 715-876-6480
24 Hr. #: 715-876-6420
Email: jalf@eccoop.com

1st Alternate Coordinator:
Randy Nandory
Plant Manager
Work #: 715-876-6400
24 Hour #: 715-876-6427
Email: mandory@ecgrow.com

Extremely Hazardous Substance Present:

CAS. NO	CHEMICAL	MAX. AMT.	VUL.ZONE
7664-93-9	*Sulfuric Acid	2,130 lbs.	< 0.1 mi.

*EPA Extremely Hazardous Substance

Assumptions: Eau Claire Cooperative Oil Company provides a variety of services including fertilizer, ice melt products, fuel oil, and other home energy products. Sulfuric Acid is used in electrolyte of batteries in their forklifts. The hazard analysis determined this sulfuric acid to be the major chemical hazard present at the facility. Sulfuric Acid is present at 2,130 lbs in a concentration of 19% or less, battery electrolyte solution. The credible worst-case scenario involves a release of 2,130 lbs of Sulfuric Acid in battery electrolyte solution. The result is a vulnerability zone that would stay within the perimeters of the facility and would not affect any special facilities off-site. The maximum number of employees affected is an average of 94.

Scenario: The credible worst-case scenario for release would involve the largest battery that would either fail or be damaged during operation or delivery releasing 2,130 lbs of Sulfuric Acid in a concentration of 19% or less in a battery electrolyte solution. According to calculations derived from using Cameo for Hazard Analysis, the release would pose a hazard of <0.1 mile or 528 feet.

Primary Emergency Responders:

Eau Claire County Sheriff's Office	715-839-4701
Township Fire Department	715-834-6868
Eau Claire Fire Department EMS	715-839-5012
Emergency Management	715-829-8499

Special Resources Available at / from facility:
(Chemical emergency monitoring equipment, personnel protective equipment, containment/absorbent supplies/fire equipment, communications equipment, and other equipment/supplies)

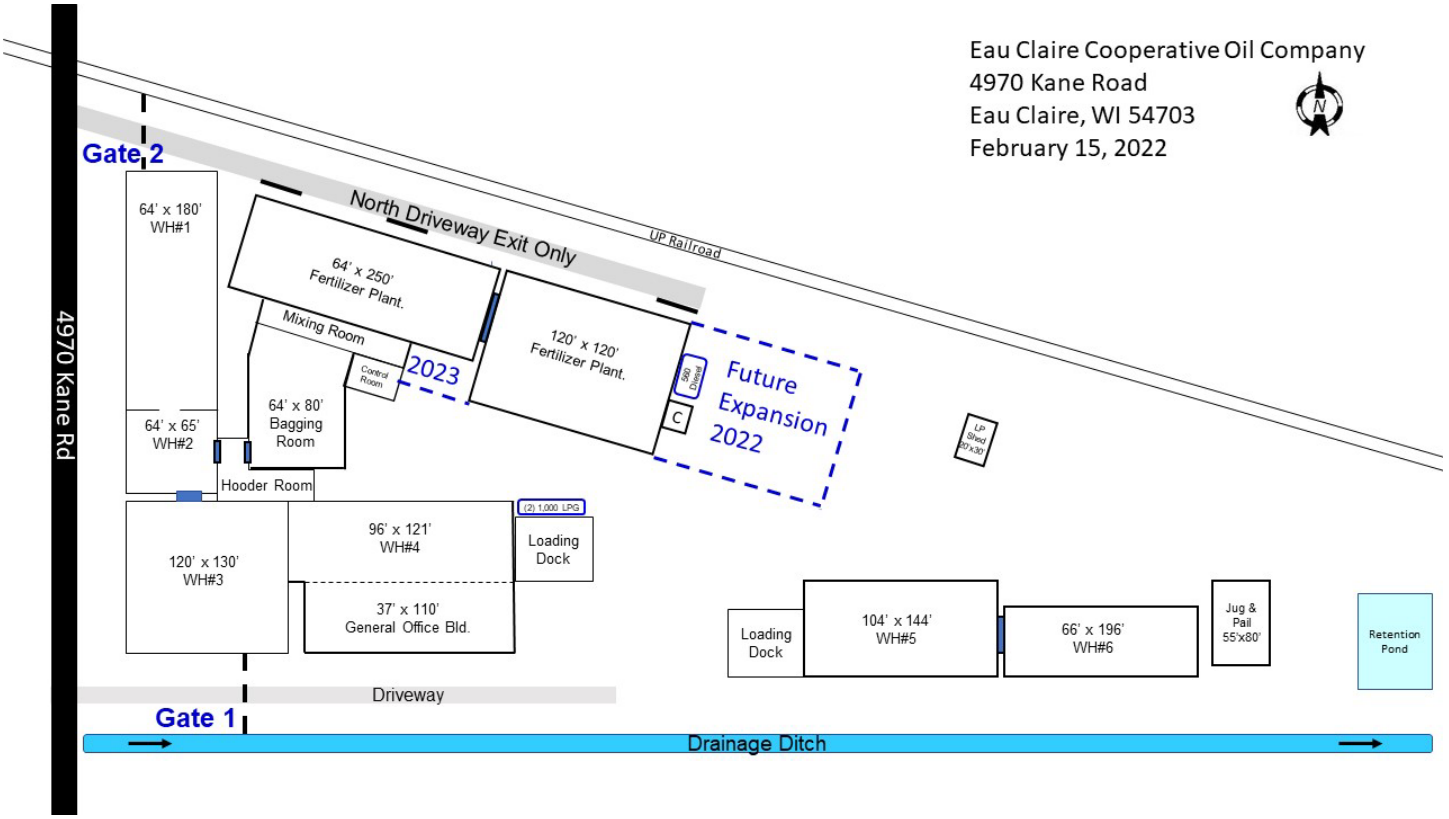
Internal training to help staff identify and handle a leak is ongoing. This training is also being used to identify appropriate PPE and other supplies needed to handle a leak. Eau Claire Cooperative has color-metric indicator tubes for the detection of Sulfuric Acid.

Special Resources Needed for Response:
The facility will not respond to hazardous materials emergency but will evacuate the facility and await the response to their 911 call. Access to the facility is done by entering two gates on Kane Road.

General:
Eau Claire Cooperative Oil Company operates two shifts. There is an average of ninety-four (94) employees on site between the Monday-Friday (6AM-3PM) and Monday-Thursday (3PM-2AM) shifts.

Special Considerations:
None

Facility Map Identifying Sulfuric Acid Storage:



NEW [ ] UPDATE [X] FINAL UPDATE [ ]

Facility Signatures:

I have reviewed the attached plan and to the best of my knowledge, all facility information is true, accurate, and complete. The plan is consistent with facility emergency plans and procedures.

Facility Coordinator — Date: 5-3-2022

County Signatures:

I have reviewed the attached plan and to the best of my knowledge, all information is true, accurate, and complete.

_____ _____

County Local Emergency Planning Committee Chair — Date

_____ _____

County Emergency Management Director — Date

ATTACHMENT C, APPENDIX FOR FACILITY ID #202685

Ferguson - 1676
2626 Truax Boulevard
Eau Claire, WI 54703

Facility Coordinator:
Pete Brostowitz
Site Contact
Work #: 715-835-5151
24 Hr. #: 715-835-5151
Email: Pete.Brostowitz@ferguson.com

1st Alternate Coordinator:
HazMat/Chemical Spill Hotline
Contracted Emergency Service
Work #: 866-951-9830
24 Hour #: 866-951-9830
Email: drew.hartsock@ferguson.com

Extremely Hazardous Substance Present:

CAS. NO	CHEMICAL	MAX. AMT.	VUL.ZONE
7664-93-9	*Sulfuric Acid	1,260 lbs.	< 0.1 mi.

*EPA Extremely Hazardous Substance

Assumptions: Ferguson - 1676 is a plumbing and HVAC supply manufacturer that utilizes battery operated material handling equipment containing EHS sulfuric acid. Sulfuric acid is present at 1,260 lbs in a concentration of 30% or less, battery electrolyte solution. The credible worst-case scenario involves a release of 1,260 lbs of sulfuric acid in battery electrolyte solution at a concentration of 30% or less. The result is a vulnerability zone that would stay within the perimeters of the facility and would not affect any special facilities off-site. The maximum number of employees affected is 12.

Scenario: The credible worst-case scenario for release would involve the largest battery/group of interconnected batteries that is damaged during operation releasing 1,260 lbs of sulfuric acid in a concentration of 30% or less in a battery electrolyte solution. According to calculations derived from using Cameo for Hazard Analysis, the release would pose a hazard of <0.1 mile or 528 feet.

Primary Emergency Responders:

Eau Claire Police Department	715-839-4972
Eau Claire Fire Department	715-835-5151
Eau Claire Fire Department EMS	715-835-5012
Eau Claire County Emergency Management	715-829-8499

Special Resources Available at / from facility:

- Basic PPE (Boots, Gloves, Face Masks, and Face Shields)
- Basic First Aid Kit (AED and Eyewash Stations)
- Basic Spill Containment (Absorbent pads)

Special Resources Needed for Response:

The facility will not respond to hazardous materials emergency but will evacuate the facility and await the response to their 911 call. The facility's hazardous materials contractor is Verisk 3E Company, 1-866-951-9830.

General:

Ferguson-1676 operates 1 shift, 5 days per week; 1st shift (8am-5pm), 12 employees.

Special Considerations:

None

Facility Map Identifying Sulfuric Acid Storage:

Ferguson - Ferguson - 1676

Address: 2626 Truax Blvd
City/State/Zip: Eau Claire, WI 54703
County: Eau Claire
Site Access Coordinates: 44.8335, -91.5475

Chemical List:

Sulfuric Acid

* Stored in forklifts throughout facility *

100 ft

Facility

Storage

Printed 12/21/2021 by Mapkind

NEW [X] UPDATE [ ] FINAL UPDATE [ ]

Facility Signatures:

I have reviewed the attached plan and to the best of my knowledge, all facility information is true, accurate, and complete. The plan is consistent with facility emergency plans and procedures.

Facility Coordinator — Date: 4-1-2022

County Signatures:

I have reviewed the attached plan and to the best of my knowledge, all information is true, accurate, and complete.

_____ _____

County Local Emergency Planning Committee Chair — Date

_____ _____

County Emergency Management Director — Date

ATTACHMENT C, APPENDIX FOR FACILITY ID #201315
First Supply LLC – Eau Claire
596 Cameron Street
Eau Claire, WI 54703

Facility Coordinator:
Reggie Geissler
Branch Manager
Work #: 715-832-6638
24 Hr. #: 715-732-6638
Email: rgeissler@1supply.com

1st Alternate Coordinator:
Brian Heidtke
General Manager
Work #: 715-225-0350
24 Hour #: 715-831-4602
Email: bheidtke@1supply.com

Extremely Hazardous Substance Present:

CAS. NO	CHEMICAL	MAX. AMT.	VUL.ZONE
7664-93-9	*Sulfuric Acid	1,553 lbs.	< 0.1 mi.

*EPA Extremely Hazardous Substance

Assumptions: First Supply LLC – Eau Claire is a wholesale and distribution retail site located in a mixed (residential/commercial) district near the downtown Eau Claire area. There are several structures on the site, and the large lot accommodates deliveries via semi-trailer. Sulfuric Acid is present at 1,553 lbs in a concentration of 20% or less, battery electrolyte solution. The credible worst-case scenario involves a release of 1,553 lbs of Sulfuric Acid in battery electrolyte solution at a concentration of 20% or less. The result is a vulnerability zone that would stay within the perimeters of the facility and would not affect any special facilities off-site. The maximum number of employees affected is 3 – 42.

Scenario: The credible worst-case scenario for release would involve the largest battery/group of interconnected batteries that is damaged during operation or delivery releasing 1,553 lbs of Sulfuric Acid in a concentration of 20% or less in a battery electrolyte solution. According to calculations derived from using Cameo for Hazard Analysis, the release would pose a hazard of <0.1 mile or 528 feet.

Primary Emergency Responders:

Eau Claire Police Department	715-839-4972
Eau Claire Fire Department	715-839-5012
Eau Claire Fire Department EMS	715-839-5012
Eau Claire County Emergency Management	715-829-8499

Special Resources Available at / from facility:

- SDS Safety Data Sheets – Located in Office & Warehouse
- Eye Wash Station – Located in Warehouse
- Battery Servicing Personnel Protective Equipment – Located in Warehouse near battery charging area
- Containment/Absorbent Supplies – Located in Warehouse
- Fire Extinguishers – Located in multiple areas of the office, showroom, warehouse & outbuildings
- Communications Equipment – Phones, Paging System, and Walkie-Talkie's

Special Resources Needed for Response:

The facility will not respond to hazardous materials emergency but will evacuate the facility and await the response to their 911 call. Receiving doors are inside a secure fence that is locked outside normal business hours.

General:

First Supply LLC – Eau Claire operates shifts seven days per week. The hours of operation are detailed below, and there are 3 – 42 employees on-site.

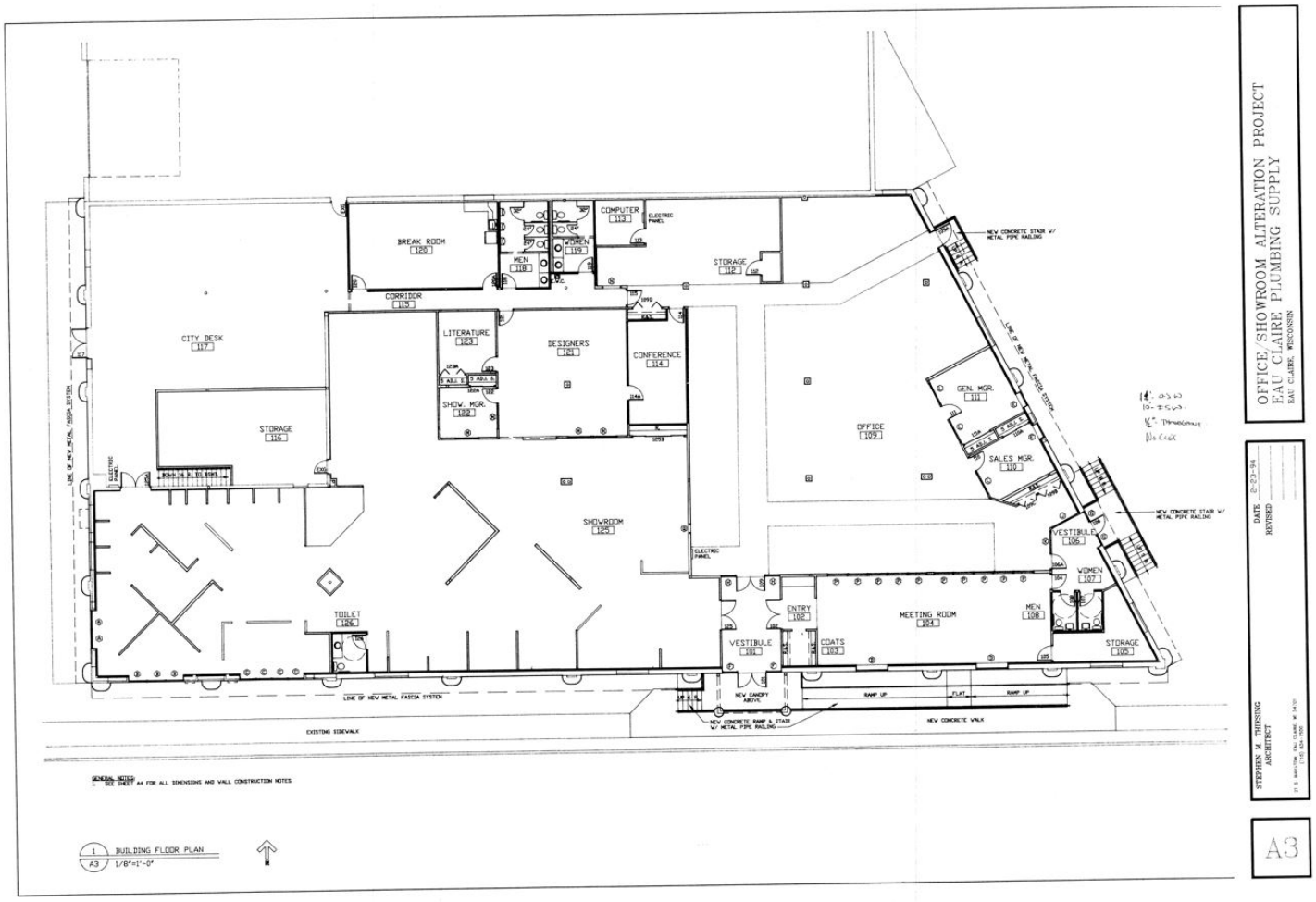
Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
7:00 am	7:00 am	7:00 am	7:00 am	7:00 am	9:00 am	11:00 am
5:00 pm	5:00 pm	5:00 pm	7:00 pm	5:00 pm	5:00 pm	4:00 pm

Note: *There are 3-4 Warehouse Operations employees that work until 7:30 pm – 9:00 pm, pending business demands, loading trucks Monday – Friday.*

Special Considerations:

There are no special facilities in the immediate vulnerability radius, however, Mayo Clinic Health System is located nearby.

Facility Map Identifying Sulfuric Acid Storage:



NEW [ ] UPDATE [X] FINAL UPDATE [ ]

Facility Signatures:

I have reviewed the attached plan and to the best of my knowledge, all facility information is true, accurate, and complete. The plan is consistent with facility emergency plans and procedures.

Facility Coordinator — Date: 3/30/22

County Signatures:

I have reviewed the attached plan and to the best of my knowledge, all information is true, accurate, and complete.

_____ _____

County Local Emergency Planning Committee Chair — Date

_____ _____

County Emergency Management Director — Date

ATTACHMENT C, APPENDIX FOR FACILITY ID #202051
Fleet Farm
3165 Old Town Hall Road
Eau Claire, WI 54701

Facility Coordinator:
Diane Kopping
General Manager
Work #: 715-895-8401
24 Hr. #: 920-904-2778
Email: Safety@fleetfarm.com

1st Alternate Coordinator:
Andrew Worth
Logistics Manager
Work #: 715-895-8401
24 Hour #: 414-750-7749
Email: safety@fleetfarm.com

Extremely Hazardous Substance Present:

CAS. NO	CHEMICAL	MAX. AMT.	VUL.ZONE
7664-93-9	*Sulfuric Acid	3,078 lbs.	< 0.1 mi.

*EPA Extremely Hazardous Substance

Assumptions: Fleet Farm is a big box retailer that utilizes battery operated material handling equipment. Sulfuric Acid is present at 3,078 lbs in a concentration of 30% or less, battery electrolyte solution. The credible worst-case scenario involves a release of 3,078 lbs of sulfuric acid in battery electrolyte solution at a concentration of 30% or less. The result is a vulnerability zone that would stay within the perimeters of the facility and would not affect any special facilities off-site. The maximum number of employees affected is 130.

Scenario: The credible worst-case scenario for release would involve the largest battery/group of interconnected batteries that is damaged during operation releasing 3,078 lbs of Sulfuric Acid in a concentration of 30% or less in a battery electrolyte solution. According to calculations derived from using Cameo for Hazard Analysis, the release would pose a hazard of <0.1 mile or 528 feet.

Primary Emergency Responders:

Eau Claire Police Department	715-839-4972
Eau Claire Fire Department	715-895-8401
Eau Claire Fire Department EMS	715-895-8401
Eau Claire County Emergency Management	715-829-8499

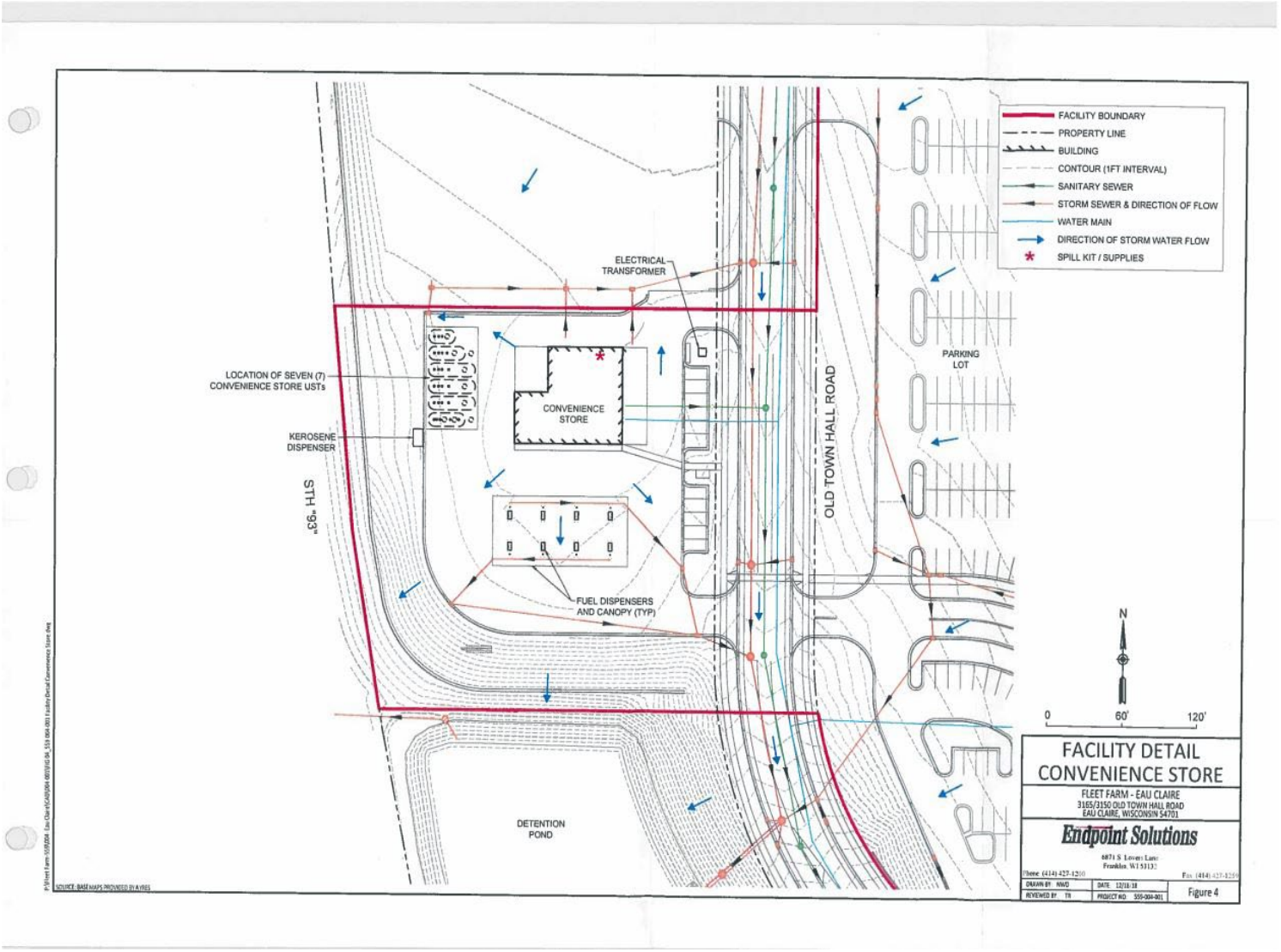
Special Resources Available at / from facility:
- PPE
- Spill Clean Up Kit/Supplies
- Fire Extinguisher

Special Resources Needed for Response:
The facility will not respond to hazardous materials emergency but will evacuate the facility and await the response to their 911 call.

General:
Fleet Farm operates 2 shifts, 7 days per week; 1st shift (7am-3pm), 70 employees; 2nd shift (1pm-8pm), 60 employees.

Special Considerations:
None

Facility Map Identifying Sulfuric Acid Storage:



NEW [X] UPDATE [ ] FINAL UPDATE [ ]

Facility Signatures:

I have reviewed the attached plan and to the best of my knowledge, all facility information is true, accurate, and complete. The plan is consistent with facility emergency plans and procedures.

Facility Coordinator 4-4-2022

Date

County Signatures:

I have reviewed the attached plan and to the best of my knowledge, all information is true, accurate, and complete.

_____ _____

County Local Emergency Planning Committee Chair Date

_____ _____

County Emergency Management Director Date

ATTACHMENT C, APPENDIX FOR FACILITY ID #173687
MCI (EUCRWI) (WIEUCRWI)
333 Putnam Street
Eau Claire, WI 54703

Facility Coordinator:
Alan Himley
Property Manager
Work #: 612-217-7380
24 Hr. #: 800-386-9639
Email: alan.himley@verizon.com

1st Alternate Coordinator:
Compliance Service Center
Manager, Verizon EHS Department
Work #: 800-386-9639
24 Hour #: 800-386-9639
Email: Susan.Calderon@Verizon.com

Extremely Hazardous Substance Present:

CAS. NO	CHEMICAL	MAX. AMT.	VUL.ZONE
7664-93-9	*Sulfuric Acid	1,051 lbs.	< 0.1 mi.

*EPA Extremely Hazardous Substance

Assumptions: MCI (EUCRWI) (WIEUCRWI) is a facility that provides support for a fiber optic communications network. Services are contracted by communications companies for voice, computer, and other services that are transmitted through the fiber optic network. The facility consists of prefabricated communications buildings that are end to end on the site. Sulfuric Acid, present in batteries inside the two communications buildings, is the major chemical hazard present. Sulfuric Acid is present at 1,051 lbs in a concentration of 8% or less, battery electrolyte solution. The credible worst-case scenario involves a release of 1,051 lbs of Sulfuric Acid in battery electrolyte solution at a concentration of 8% or less. The facility is unmanned but is visited periodically.

Scenario: The credible worst-case scenario for release would involve the largest battery/group of interconnected batteries that is damaged during operation releasing 1,051 lbs of sulfuric acid in a concentration of 8% or less in a battery electrolyte solution. According to calculations derived from using Cameo for Hazard Analysis, the release would pose a hazard of <0.1 mile or 528 feet.

Primary Emergency Responders:

Eau Claire Police Department	715-839-4972
Eau Claire Fire Department	715-839-5012
Eau Claire Fire Department EMS	715-839-5012
Eau Claire County Emergency Management	715-829-8499

Special Resources Available at / from facility:

There is no chemical emergency monitoring equipment on site. The facility is equipped with gloves, apron, eye protection, chemical absorbent, and eye wash.

Special Resources Needed for Response:

There are no full-time employees on site. There is no chemical emergency monitoring equipment on site.

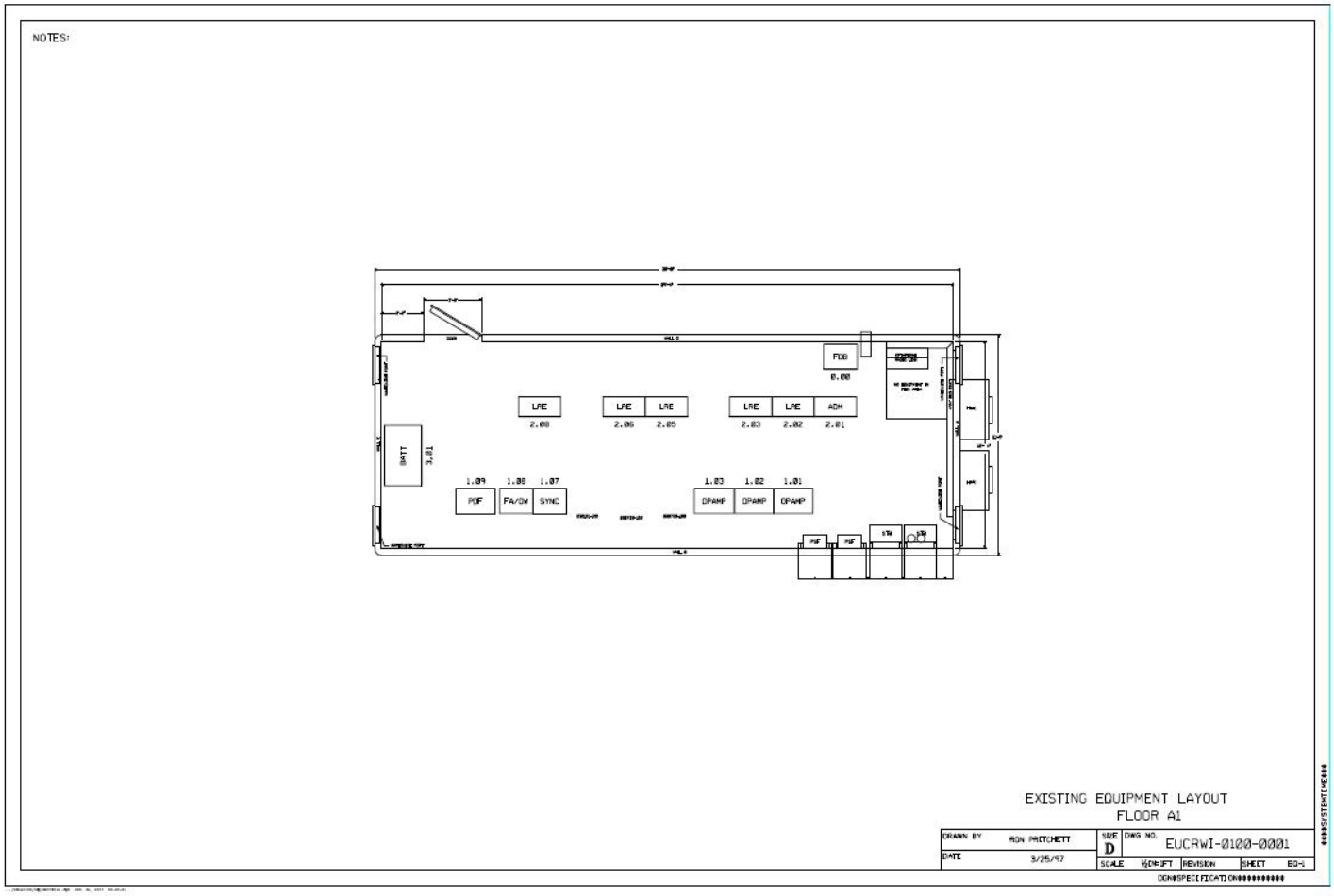
General:

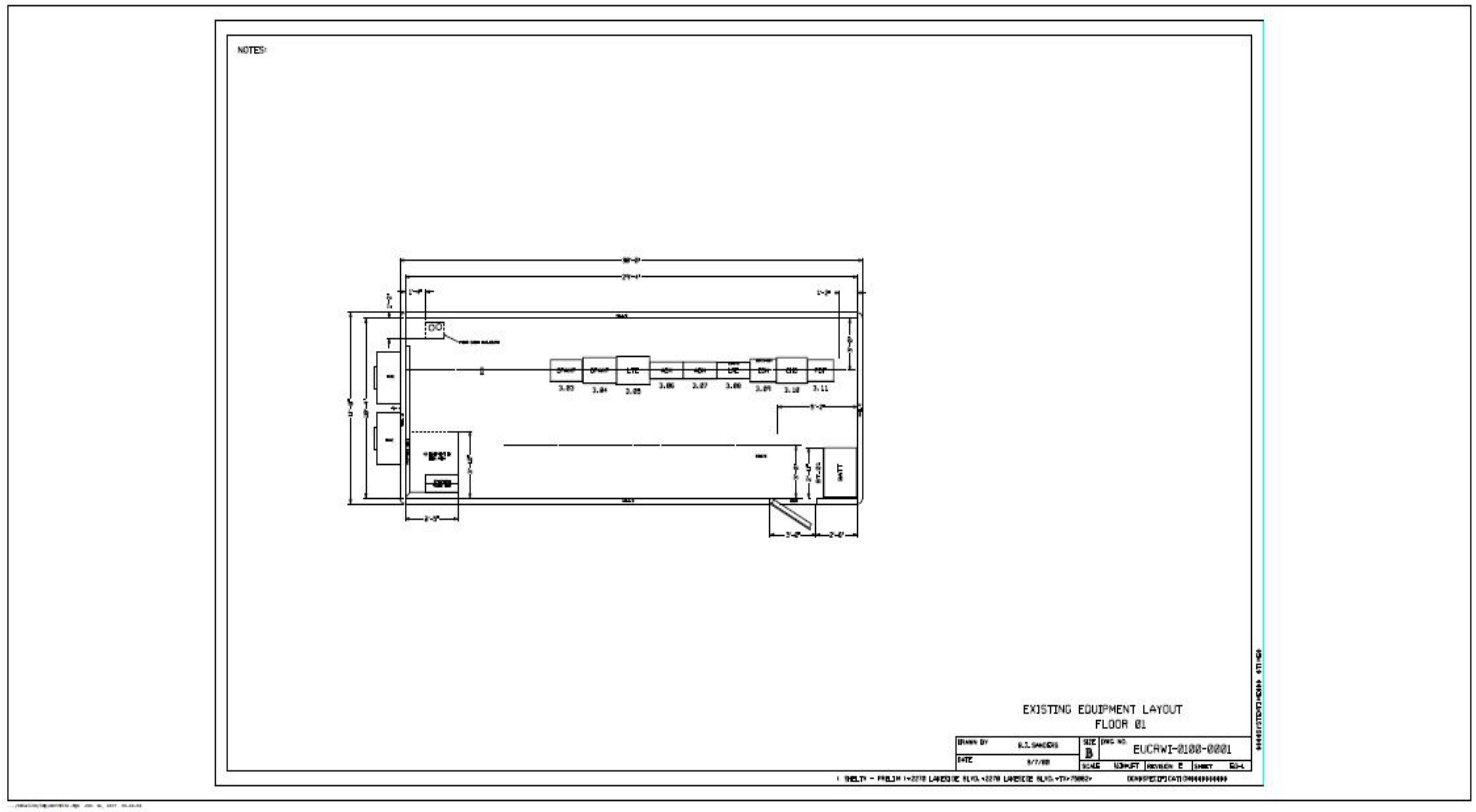
MCI (EUCRWI) (WIEUCRWI) is an unmanned facility but is visited periodically.

Special Considerations:

The Vulnerability Zone affects approximately 33 housing units within 0.1 mile of the facility. The population in this area is estimated to be 73 people. St. Edwards Montessori School (1129 Bellevue Avenue, Eau Claire) is located within the Vulnerability Zone.

Facility Maps Identifying Sulfuric Acid Storage:





NEW [ ] UPDATE [X] FINAL UPDATE [ ]

Facility Signatures:

I have reviewed the attached plan and to the best of my knowledge, all facility information is true, accurate, and complete. The plan is consistent with facility emergency plans and procedures.

*Alan Himley*_____ 3/31/22_____

Facility Coordinator Date

County Signatures:

I have reviewed the attached plan and to the best of my knowledge, all information is true, accurate, and complete.

_____ _____

County Local Emergency Planning Committee Chair Date

_____ _____

County Emergency Management Director Date

EPCRA HAZARDOUS MATERIALS FACILITY OFF-SITE PLAN

TRANSMITTAL FORM AND REVIEW GUIDE

COUNTY: Eau Claire

NEW ☐ UPDATE ☑ FINAL UPDATE ☐

Facility ID No. : 197261

Facility Name: Airgas USA, LLC

Facility Address: 1635 Prairie Lane, Eau Claire, Wisconsin 54703

STATEMENT OF PLANNING PROCESS

This plan has been prepared in accordance with state and local requirements and is ready to be made a part of the County Emergency Operations Plan (EOP) / Emergency Response Plan (ERP) upon Wisconsin Emergency Management (WEM) / State Emergency Response Commission (SERC) acceptance. This plan meets the facility off-site planning guidance as established by WEM / SERC. Acceptance of this plan is for planning purposes and does not verify facility compliance with the requirements of EPCRA.

FACILITY SIGNATURES:

I have reviewed the attached plan and to the best of my knowledge, all facility information is true, accurate, and complete. The plan is consistent with facility emergency plans and procedures.

Facility Coordinator — Date: 04/06/2022

COUNTY SIGNATURES

I have reviewed the attached plan and to the best of my knowledge, all information is true, accurate, and complete.

County Local Emergency Planning Committee Chair — Date

County Emergency Management Director — Date

WEM / SERC ACCEPTANCE:

This plan has been reviewed and meets the off-site planning guidance as established by WEM / SERC.

WEM Regional Director — Date

NOTE: Facility Off-Site Plan Review Guide attached: Yes ☑ No ☐

WISCONSIN EMERGENCY MANAGEMENT
PO BOX 7865
MADISON WI 53707-7865

EPCRA HAZARDOUS MATERIALS FACILITY OFF-SITE PLAN
TRANSMITTAL FORM AND REVIEW GUIDE

COUNTY: Eau Claire
NEW ☐ UPDATE ☑ FINAL UPDATE ☐
Facility ID No. : 197261
Facility Name: Airgas USA, LLC
Facility Address: 1635 Prairie Lane, Eau Claire, Wisconsin 54703

FACILITY OFF-SITE PLAN REVIEW GUIDE

EPCRA Facility Off-Site Plan Elements		Page Number Reference
1)	The facility identification with address.	4
2)	Facility Coordinator / Alternate Coordinator	4
3)	Extremely Hazardous Substances (EHS) chemicals Identified with CAS numbers and maximum amount	4
4)	Primary emergency responders identified	6
5)	Support and resources available from facility	5
6)	General Information / Assumptions (Disclaimer)	7
7)	Hazard analysis summary	5-6
8)	Special facilities affected	7
9)	Population protection	7
10)	Special considerations	7
11)	Site Plan / Facility Layout	10 (Appendix 1)

EPCRA HAZARDOUS MATERIALS FACILITY OFF-SITE PLAN
TRANSMITTAL FORM AND REVIEW GUIDE

COUNTY: Eau Claire
NEW ☐ UPDATE ☑ FINAL UPDATE ☐
Facility ID No. : 197261
Facility Name: Airgas USA, LLC
Facility Address: 1635 Prairie Lane, Eau Claire, Wisconsin 54703

12) Distribution list:

Facility
Fire Department of jurisdiction
Wisconsin Emergency Management- Region Office
Designated Hazmat team
County Emergency Management Office
Adjacent County Emergency Management Office when impacted by vulnerability zone

13) Required Attachments

A. Vulnerability Zone map highlighting special facilities: 8-9
B. Safety Data Sheet (SDS) for each EHS: 11-22 (Appendix 2)
C. Vulnerability Zone Calculations: 23-24 (Appendix 3)
D. Transportation route(s) map:

Airgas USA, LLC

Facility Off-Site

Emergency Response Plan

Facility #197261
Airgas USA, LLC
1635 Prairie Lane
Eau Claire, Wisconsin 54703

Eau Claire County Emergency Management
721 Oxford Avenue, Suite 3344
Eau Claire, Wisconsin 54703

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APPENDICES

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Extremely Hazardous Substances SDS ..... Appendix 2
CAMEO Calculations ..... Appendix 3

RECORD OF CHANGES

Change	Date Changed	Change Made By
Created	May 23, 2016	JA
Updated	November 23, 2016	JA
Updated	October 2018	JA
Updated	March 2022	SS

SECTION 1: FACILITY INFORMATION

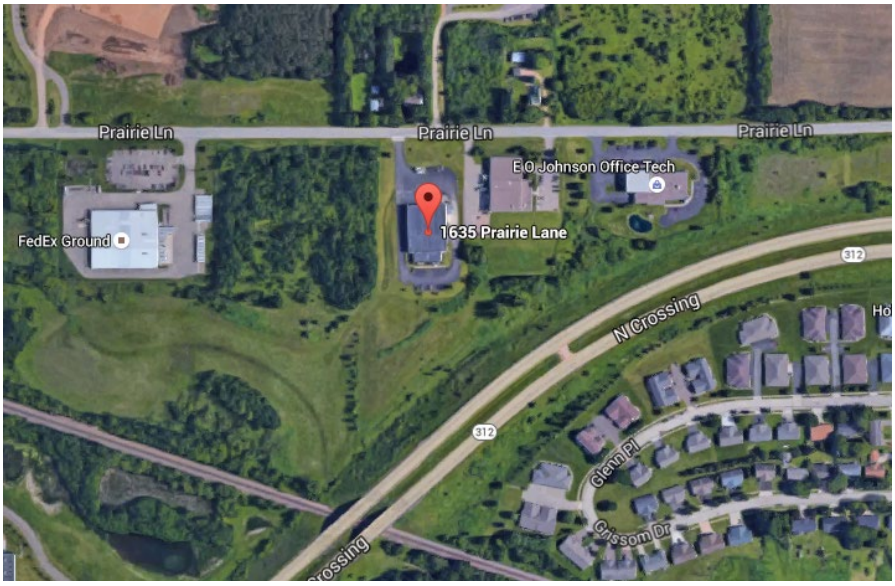
A. Address

Airgas USA, LLC
1635 Prairie Lane
Eau Claire, WI 54703

B. Facility ID

197261

C. Map



D. Emergency Contacts

Primary:
Stephen Walter
Phone: 715-832-3912
24 Hour: 715-450-2898
stephen.walter@airgas.com

Secondary:
John Baker
Phone: 715-832-3912
24 Hour: 715-832-3912
john.baker.noc@airgas.com

E. Extremely Hazardous Substances

Ammonia (Anhydrous) Chemical ID: 441217 CAS: 7664417 **ERG: Guide 125**	**Inventory:** Max Daily Amount (lbs): 750 Ave. Daily Amount (lbs): 225 Number of days on site: 365	**Storage:** Container: Cylinder Location: Northeast Truck Dock

F. Hazardous Substances

Argon Chemical ID: 441215 CAS: 7440371 **ERG: Guide 121**	**Inventory:** Max Daily Amount (lbs): 6417 Ave. Daily Amount (lbs): 2994 Number of days on site: 365	**Storage:** Container: Cylinder Location: Northwest Corner of Building. Northeast Inside Corner of Building

Carbon Dioxide Chemical ID: 441213 CAS: 124389 **ERG: Guide 120**	**Inventory:** Max Daily Amount (lbs): 6371 Ave. Daily Amount (lbs): 2493 Number of days on site: 365	**Storage:** Container: Cylinder, Tote Bin Location: Inside NE Area of Warehouse, Bulk Vessel on NE of Bldg., Warehouse, Inside NE area of Warehouse
Nitrogen Chemical ID: 441216 CAS: 7727379 **ERG: Guide 121**	**Inventory:** Max Daily Amount (lbs): 74600 Ave. Daily Amount (lbs): 49476 Number of days on site: 365	**Storage:** Container: Above Ground Tank, Cylinder Location: NE Outside Corner of Bldg., NE Inside Corner of Bldg., NE Outside Corner of Bldg.
Oxygen Chemical ID: 441214 CAS: 7782447 **ERG: Guide 122**	**Inventory:** Max Daily Amount (lbs): 74468 Ave. Daily Amount (lbs): 47076 Number of days on site: 365	**Storage:** Container: Cylinder, Above Ground Tank Location: Northeast Inside Corner of Building, Northwest Inside Corner of Building, Northeast Outside Corner of Building

G. Resources/Support Available

Eau Claire County has a level B hazardous materials response team. For level A incidents, contact the West Central Wisconsin Hazardous Response Team through the Wisconsin Emergency Management Duty Officer at 1-800-943-0003.

H. Hazard Analysis

Airgas is a retail store with 21,000 square feet of floor space located in a commercial district north of the North Crossing and East of Clairemont Avenue. The parking lot to the south of the building accommodates 21 vehicles; deliveries via tractor trailer can be made on the north side of the building using any of the five loading bays with direct access to the warehouse. The building is a single-story warehouse type of building with a small retail area on the south side of the building. Chemicals are stored in the warehouse area in the north side of the building or in outdoor above ground tanks located on the northeast corner of the building.

Greatest potential for release would occur as a function of accidental mishandling or a transportation incident resulting in rapid discharge of stored chemicals. The worst-case scenario is based on the maximum quantity of chemical present or the largest container of the product; whichever is less. While the facility has 750 pounds of Ammonia on site, the largest container of Ammonia in the facility contains 150 pounds of material. The evaluation criteria are:

Very stable (Class F)
Night time
Open area
3.35 mph wind
1/10 IDLH (Immediately Dangerous to Life and Health) concentration Rapid release of Maximum quantity of chemical in a single vessel (10 min.)

The evacuation radius, as calculated by the CAMEO software package for 150 pounds of Ammonia release, was determined to be 0.8 miles. The Vulnerability Zone encompasses the facility, as well as several businesses in the immediate area. Additionally, a release this size would impact approximately 544 housing units (1,097 people).

The reevaluation scenario criteria are:
Neutral air stability (Class D)
Night time
Open area
11/9 mph wind
1/10 IDLH (Immediately Dangerous to Life and Health) concentration
10 minute release of maximum quantity of chemical in a single vessel.

The evaluation radius, as calculated by the CAMEO software package using the reevaluation criteria, for a 150 pound Ammonia release, was determined to be 0.1 mile. The Vulnerability Zone would primarily affect the employees within the immediate vicinity of the release.

I. Access to Facility

The facility is served by a single access point on Prairie Lane.

SECTION 2: OUTSIDE RESOURCES

A. Primary Response Agencies

Fire:	**EMS:**	**Law:**	**Emergency Management:**
City of Eau Claire Fire Station 9 3611 Campus Road Eau Claire, WI 54703 Phone: 715-839-5012	City of Eau Claire Fire Station 9 3611 Campus Road Eau Claire, WI 54703 Phone: 715-839-5012	City of Eau Claire Police 721 Oxford Avenue Eau Claire, WI 54703 Phone: 715-839-4972	Eau Claire County Emergency Management 721 Oxford Avenue Suite 3344 Eau Claire, WI 54703 Phone: 715-839-4736

B. Hazardous Materials Response Teams

Eau Claire County has a Level B hazardous materials response team. For Level B response, the local Fire Chief notifies the Level B team of a response needed through the Eau Claire County Emergency Communications Center. For Level A responses by the Type 1 Regional Hazardous Materials Response Team, requests shall be made through the WEM Duty officer by the County Emergency Management Director.

C. Other Outside Assistance

See the County-Wide Hazardous Materials Strategic Plan for a listing of resources.

SECTION 3: POPULATION/ENVIRONMENTAL PROTECTION

A. Shelter-In-Place

The lead time for a hazardous materials incident may be very short. As a result, there may not be time enough for 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. The determination to shelter-in-place or to evacuate will be made by the on-scene commander as appropriate.

B. Evacuation

Experience indicated that shelter space would need to be provided for only 30% of the population within the initial isolation and evacuation zones and the remaining 70% would seek shelter with family and friends outside the risk zone. All public schools listed are eligible evacuation shelters.

C. Nearby Shelters

N/A

SECTION 4: VULNERABILITY ZONES

A. General Information and Assumptions

The vulnerability zones set forth in this plan are based on the EPA Technical Guidance for Hazards Analysis. The zones are based on a credible worst-case scenario and identify the potential area for impact should an air-borne release of a single EHS chemical occur.

The vulnerability zones are NOT intended to be used as a guide for population protection in fire-related incidents. Fire incidents were considered in the development of this plan and the plan provides basic information about the facility for first responders to employ. However, in an actual fire situation at this facility, the Incident Commander is strongly recommended to reference the fire department's own individual agency pre-emergency plans and standard operating procedures as well as the County's Emergency Operations Plan – Annex K: Fire and Rescue, as they may relate to this facility when making decision at an incident involving fire. Further, fire departments that would respond to an incident at this facility are strongly encouraged to meet with facility representatives to determine ways to minimize an event at the facility and to determine what additional information and factors should be taken into consideration in the event of a fire, should one occur.

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.

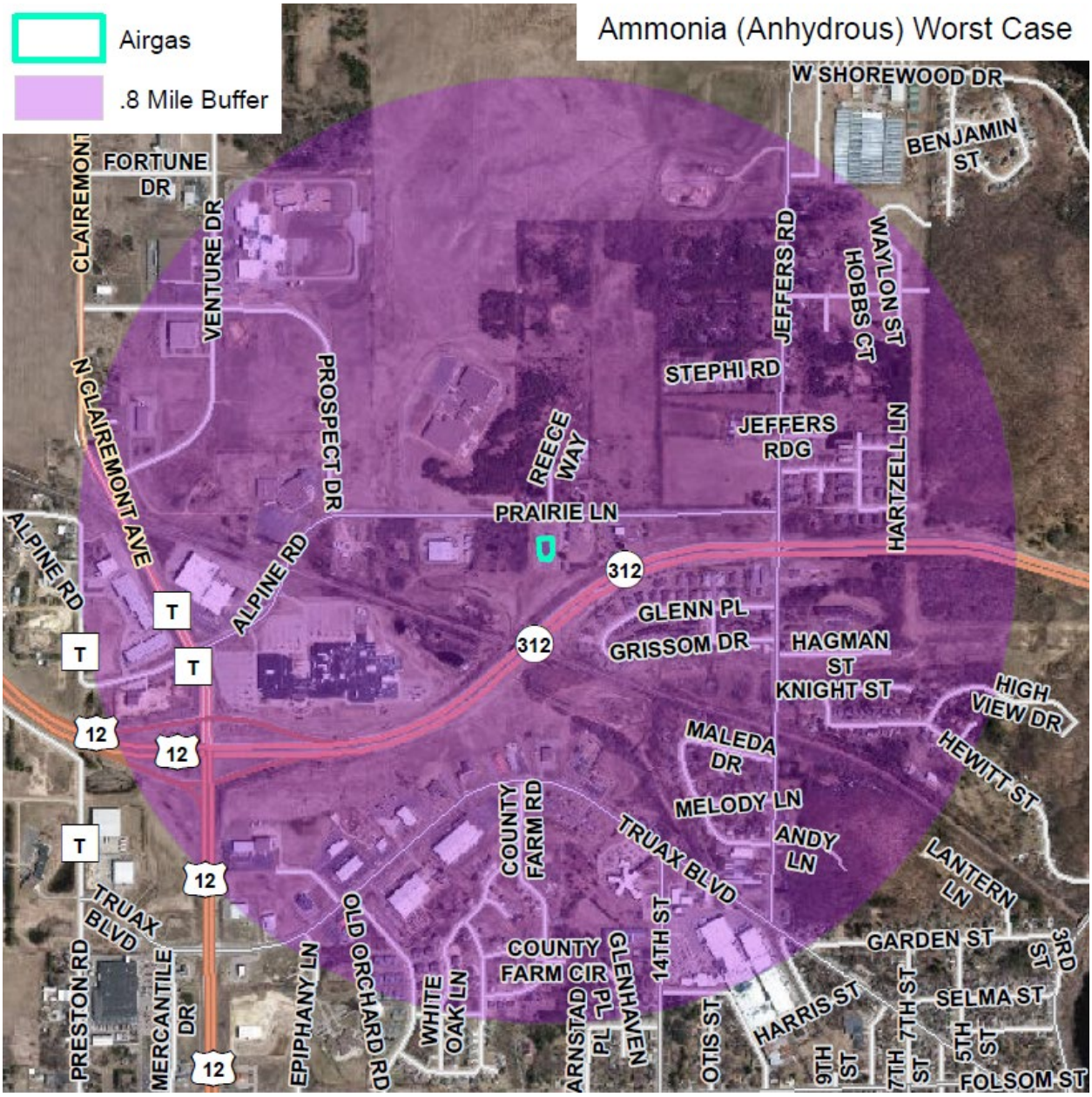
The vulnerability zones determined in this Plan are for general PLANNING PURPOSES.

B. Special Facilities Affected

Dove Healthcare-West, 1405 Truax Blvd. (715) 522-1030
Orchard Hills Assisted Living, 1403 Truax Blvd. (715) 552-1030

C. Vulnerability Zone Map

See map


Airgas
.8 Mile Buffer
Ammonia (Anhydrous) Worst Case
W SHOREWOOD DR
BENJAMIN ST
FORTUNE DR
CLAIREMONT
VENTURE DR
JEFFERS RD
HOBBS CT
WAYLON ST
STEPHI RD
PROSPECT DR
REECE WAY
JEFFERS RDG
HARTZELL LN
N CLAIREMONT AVE
PRAIRIE LN
ALPINE RD
ALPINE RD
312
GLENN PL
GRISSOM DR
HAGMAN ST
KNIGHT ST
HIGH VIEW DR
MALEDA DR
HEWITT ST
MELODY LN
ANDY LN
LANTERN LN
COUNTY FARM RD
TRUAX BLVD
TRUAX BLVD
OLD ORCHARD RD
COUNTY FARM CIR
14TH ST
GARDEN ST
3RD ST
PRESTON RD
MERCANTILE DR
EPIPHANY LN
WHITE OAK LN
GLENHAVEN PL
ARNSTAD
OTIS ST
HARRIS ST
SELMA ST
9TH ST
7TH ST
7TH ST
5TH ST
FOLSOM ST
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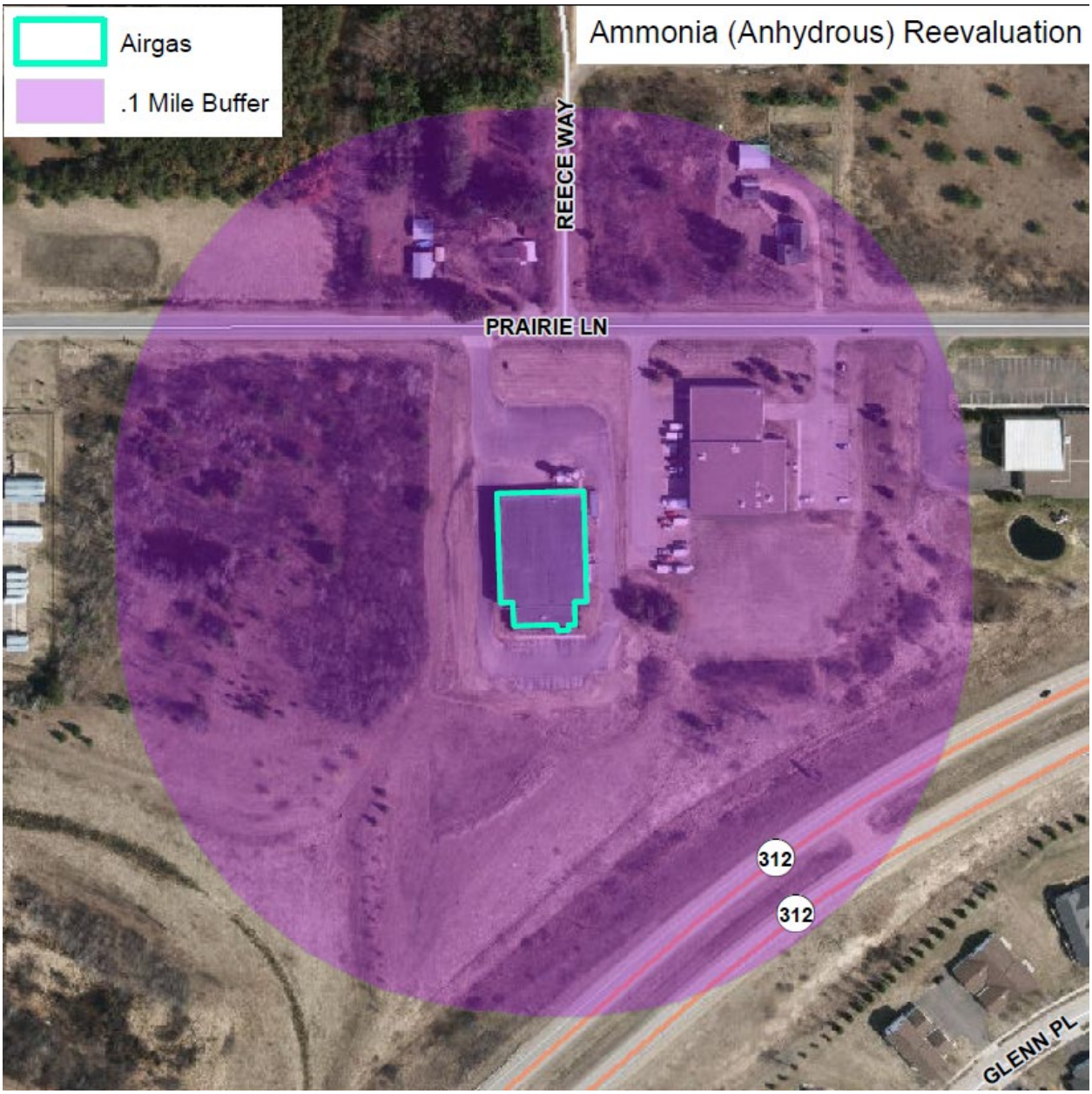

Airgas
.1 Mile Buffer
Ammonia (Anhydrous) Reevaluation
REECE WAY
PRAIRIE LN
312
312
GLENN PL

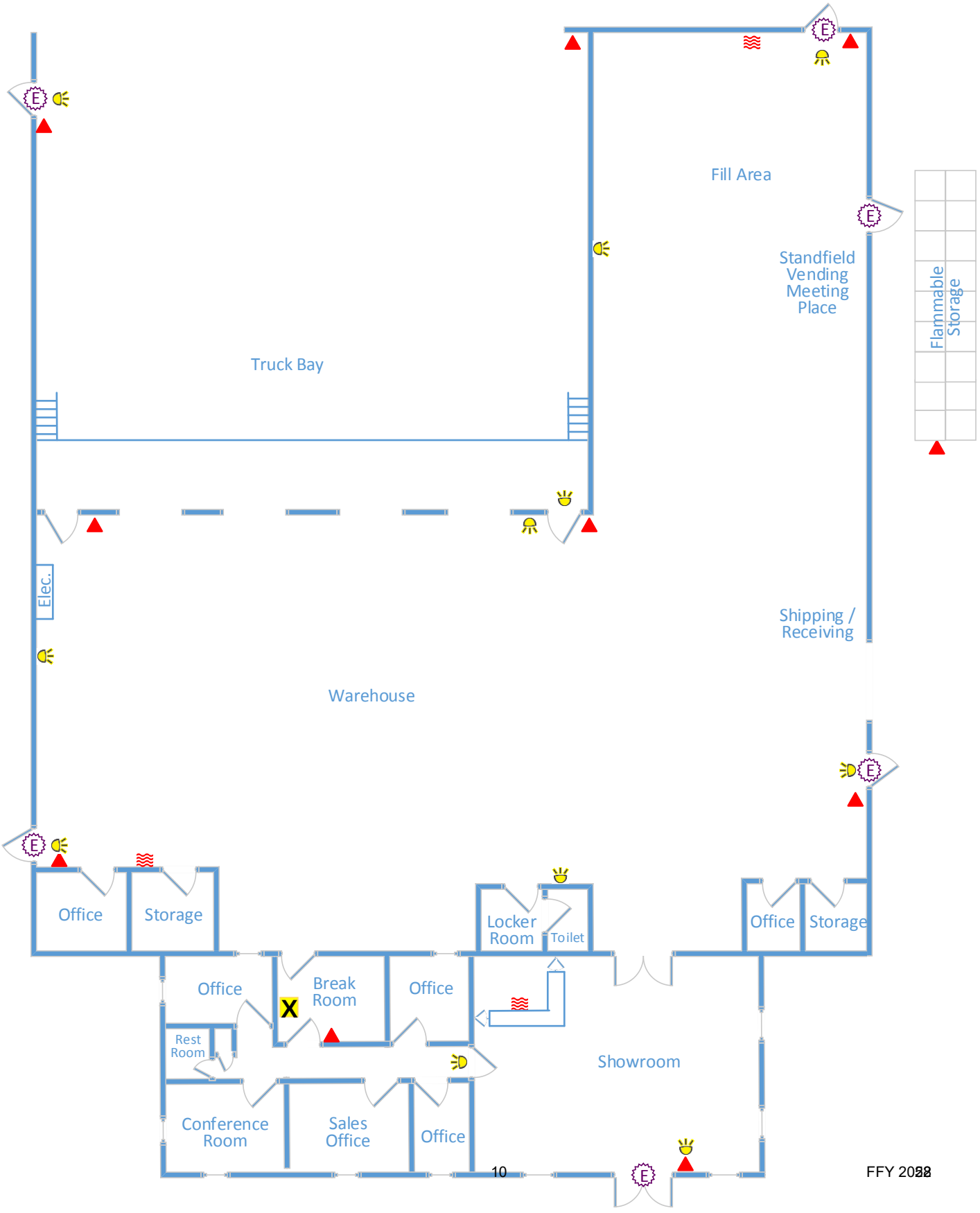
APPENDIX 1: FACILITY LAYOUT

- Fire Extinguisher
- Airhorn
- Exit
- Primary Assembly Point
- Emergency Lighting
- **YOU ARE HERE**

Eau Claire Floor Plan

N
W E
S

Prairie Lane



SAFETY DATA SHEET

Ammonia

Airgas
an Air Liquide company

Section 1. Identification

GHS product identifier : Ammonia

Chemical name : ammonia

Other means of identification : ammonia; anhydrous ammonia

Product type : Gas.

Product use : Synthetic/Analytical chemistry.

Synonym : ammonia; anhydrous ammonia

SDS # : 001003

Supplier's details : Airgas USA, LLC and its affiliates
259 North Radnor-Chester Road
Suite 100
Radnor, PA 19087-5283
1-610-687-5253

24-hour telephone : 1-866-734-3438

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : FLAMMABLE GASES - Category 2
GASES UNDER PRESSURE - Liquefied gas
ACUTE TOXICITY (inhalation) - Category 4
SKIN CORROSION - Category 1
SERIOUS EYE DAMAGE - Category 1
AQUATIC HAZARD (ACUTE) - Category 1

GHS label elements

Hazard pictograms :

Signal word : Danger

Hazard statements : Flammable gas.
May form explosive mixtures with air.
Contains gas under pressure; may explode if heated.
May displace oxygen and cause rapid suffocation.
Harmful if inhaled.
Causes severe skin burns and eye damage.
Very toxic to aquatic life.

Precautionary statements

General : Read and follow all Safety Data Sheets (SDS'S) before use. Close valve after each use and when empty. Use equipment rated for cylinder pressure. Do not open valve until connected to equipment prepared for use. Use a back flow preventative device in the piping. Use only equipment of compatible materials of construction. Always keep container in upright position. Approach suspected leak area with caution.

Prevention : Wear protective gloves. Wear eye or face protection. Wear protective clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Avoid breathing gas. Wash hands thoroughly after handling.

Section 2. Hazards identification

Response : Collect spillage. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician. IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or physician. 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 physician. Leaking gas fire: Do not extinguish, unless leak can be stopped safely. Eliminate all ignition sources if safe to do so.

Storage : Store locked up. Protect from sunlight. Store in a well-ventilated place.

Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazards not otherwise classified : In addition to any other important health or physical hazards, this product may displace oxygen and cause rapid suffocation.

Section 3. Composition/information on ingredients

Substance/mixture : Substance

Chemical name : ammonia

Other means of identification : ammonia; anhydrous ammonia

Product code : 001003

CAS number/other identifiers

CAS number : 7664-41-7

Ingredient name	%	CAS number
ammonia	100	7664-41-7

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention immediately. Call medical doctor or poison control center immediately.Chemical burns must be treated promptly by a physician.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately. Call medical doctor or poison control center immediately. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. To avoid the risk of static discharges and gas ignition, soak contaminated clothing thoroughly with water before removing it. Continue to rinse for at least 10 minutes. Get medical attention immediately. Call medical doctor or poison control center immediately. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion : As this product is a gas, refer to the inhalation section.

Section 4. First aid measures

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Causes serious eye damage.

Inhalation : Harmful if inhaled.

Skin contact : Causes severe burns.

Frostbite : Try to warm up the frozen tissues and seek medical attention.

Ingestion : As this product is a gas, refer to the inhalation section.

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:, pain, watering, redness

Inhalation : No specific data.

Skin contact : Adverse symptoms may include the following:, pain or irritation, redness, blistering may occur

Ingestion : Adverse symptoms may include the following:, stomach pains

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments : No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media : None known.

Specific hazards arising from the chemical : Contains gas under pressure. Flammable gas. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is very toxic to aquatic life. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
nitrogen oxides

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Contact supplier immediately for specialist advice. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. If involved in fire, shut off flow immediately if it can be done without risk. If this is impossible, withdraw from area and allow fire to burn. Fight fire from protected location or maximum possible distance. Eliminate all ignition sources if safe to do so.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : Accidental releases pose a serious fire or explosion hazard. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe gas. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Ensure emergency procedures to deal with accidental gas releases are in place to avoid contamination of the environment. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

Methods and materials for containment and cleaning up

Small spill : Immediately contact emergency personnel. Stop leak if without risk. Use spark-proof tools and explosion-proof equipment.

Large spill : Immediately contact emergency personnel. Stop leak if without risk. Use spark-proof tools and explosion-proof equipment. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Contains gas under pressure. Do not get in eyes or on skin or clothing. Do not breathe gas. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Store and use away from heat, sparks, open flame or any other ignition source. Empty containers retain product residue and can be hazardous. Do not puncture or incinerate container. Use equipment rated for cylinder pressure. Close valve after each use and when empty. Protect cylinders from physical damage; do not drag, roll, slide, or drop. Use a suitable hand truck for cylinder movement.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in a segregated and approved area. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Store locked up. Eliminate all ignition sources. Keep container tightly closed and sealed until ready for use. Cylinders should be stored upright, with valve protection cap in place, and firmly secured to prevent falling or being knocked over. Cylinder temperatures should not exceed 52 °C (125 °F).
Refer to ANSI/CGA G-2.1, Section 5.13 for electrical classification of anhydrous ammonia storage and handling areas. Where anhydrous ammonia is stored indoors, use electrical (ventilating, lighting and material handling) equipment with the appropriate electrical classification rating and use only non-sparking tools.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
ammonia	**California PEL for Chemical Contaminants (*Table AC-1*) (United States).** PEL: 25 ppm 8 hours. STEL: 35 ppm 15 minutes. **ACGIH TLV (United States, 3/2017).** TWA: 25 ppm 8 hours. TWA: 17 mg/m³ 8 hours. STEL: 35 ppm 15 minutes. STEL: 24 mg/m³ 15 minutes. **OSHA PEL 1989 (United States, 3/1989).** STEL: 35 ppm 15 minutes. STEL: 27 mg/m³ 15 minutes. **NIOSH REL (United States, 10/2016).** TWA: 25 ppm 10 hours. TWA: 18 mg/m³ 10 hours. STEL: 35 ppm 15 minutes. STEL: 27 mg/m³ 15 minutes. **OSHA PEL (United States, 6/2016).** TWA: 50 ppm 8 hours. TWA: 35 mg/m³ 8 hours.

Appropriate engineering controls : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

Section 8. Exposure controls/personal protection

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

Appearance

Physical state : Gas. [Compressed gas.]

Color : Colorless.

Odor : Pungent.

Odor threshold : Not available.

pH : Approx. 11.6

Melting point : -77.7°C (-107.9°F)

Boiling point : -33°C (-27.4°F)

Critical temperature : 132.85°C (271.1°F)

Flash point : Not available.

Evaporation rate : Not available.

Flammability (solid, gas) : Extremely flammable in the presence of the following materials or conditions: oxidizing materials.

Lower and upper explosive (flammable) limits : Lower: 16%
Upper: 25%

Vapor pressure : 114.1 (psig)

Vapor density : 0.59 (Air = 1)

Specific Volume (ft^3/lb) : 20.79

Gas Density (lb/ft^3) : 0.0481 (32°C / 89.6 to °F)

Relative density : SPECIFIC GRAVITY (AIR=1): @ 70°F (21.1°C) = 0.59

Solubility : Soluble in water. Soluble in alcohol and ether.

Solubility in water : 540 g/l

Partition coefficient: n-octanol/water : Not available.

Auto-ignition temperature : 651°C (1203.8°F)

Decomposition temperature : Not available.

Viscosity : Not applicable.

Flow time (ISO 2431) : Not available.

Molecular weight : 17.03 g/mole

Aerosol product

Heat of combustion : -18589392 J/kg

Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

Section 10. Stability and reactivity

Incompatible materials : Oxidizers and Yellow Metals (brass & copper)

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Hazardous polymerization : Under normal conditions of storage and use, hazardous polymerization will not occur.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
ammonia	LC50 Inhalation Gas.	Rat	7338 ppm	1 hours

Irritation/Corrosion

Not available.

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure : Not available.

Potential acute health effects

Eye contact : Causes serious eye damage.

Inhalation : Harmful if inhaled.

Skin contact : Causes severe burns.

Ingestion : As this product is a gas, refer to the inhalation section.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following:, pain, watering, redness

Inhalation : No specific data.

Skin contact : Adverse symptoms may include the following:, pain or irritation, redness, blistering may occur

Section 11. Toxicological information

Ingestion : Adverse symptoms may include the following:, stomach pains

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Other information : IDLH : 300 ppm

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
ammonia	Acute EC50 29.2 mg/l Marine water Acute LC50 2080 µg/l Fresh water Acute LC50 0.53 ppm Fresh water Acute LC50 300 µg/l Fresh water Chronic NOEC 0.204 mg/l Marine water	Algae - Ulva fasciata - Zoea Crustaceans - Gammarus pulex Daphnia - Daphnia magna Fish - Hypophthalmichthys nobilis Fish - Dicentrarchus labrax	96 hours 48 hours 48 hours 96 hours 62 days

Persistence and degradability

Not available.

Bioaccumulative potential

Not available.

Mobility in soil

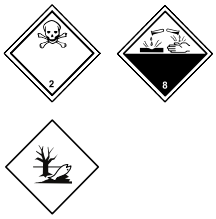
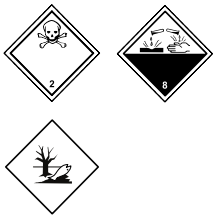
Soil/water partition coefficient (K_{OC}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Empty Airgas-owned pressure vessels should be returned to Airgas. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

Section 14. Transport information

	DOT	TDG	Mexico	IMDG	IATA
UN number	UN1005	UN1005	UN1005	UN1005	UN1005
UN proper shipping name	AMMONIA, ANHYDROUS	AMMONIA, ANHYDROUS; OR ANHYDROUS AMMONIA	AMMONIA, ANHYDROUS	AMMONIA, ANHYDROUS	AMMONIA, ANHYDROUS
Transport hazard class(es)	2.2 	2.3 (8) 	2.3 (8) 	2.3 (8) 	2.3 (8) 
Packing group	-	-	-	-	-
Environmental hazards	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.	Yes.	Yes. The environmentally hazardous substance mark is not required.

"Refer to CFR 49 (or authority having jurisdiction) to determine the information required for shipment of the product."

Additional information

DOT Classification : Inhalation hazard
This product is not regulated as a marine pollutant when transported on inland waterways in sizes of ≤5 L or ≤5 kg or by road, rail, or inland air in non-bulk sizes, provided the packagings meet the general provisions of §§ 173.24 and 173.24a.
Reportable quantity 100 lbs / 45.4 kg. Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.
Limited quantity Yes.
Quantity limitation Passenger aircraft/rail: Forbidden. Cargo aircraft: Forbidden.
Special provisions 13,T50

TDG Classification : Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.13-2.17 (Class 2), 2.40-2.42 (Class 8), 2.7 (Marine pollutant mark).
The marine pollutant mark is not required when transported by road or rail.
Explosive Limit and Limited Quantity Index 0
ERAP Index 3000
Passenger Carrying Ship Index Forbidden
Passenger Carrying Road or Rail Index Forbidden

Section 14. Transport information

Special provisions

Mexico Classification : Toxic Inhalation Hazard Zone D

IMDG : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.

IATA : The environmentally hazardous substance mark may appear if required by other transportation regulations.
Quantity limitation Passenger and Cargo Aircraft: Forbidden. Cargo Aircraft Only: Forbidden. Limited Quantities - Passenger Aircraft: Forbidden.

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL and the IBC Code : Not available.

Section 15. Regulatory information

U.S. Federal regulations : **TSCA 8(a) CDR Exempt/Partial exemption**: Not determined

Clean Water Act (CWA) 311: ammonia

Clean Air Act (CAA) 112 regulated toxic substances: ammonia

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Not listed

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

Name	%	EHS	SARA 302 TPQ (lbs)	SARA 302 TPQ (gallons)	SARA 304 RQ (lbs)	SARA 304 RQ (gallons)
ammonia	100	Yes.	500	-	100	-

SARA 304 RQ : 100 lbs / 45.4 kg

SARA 311/312

Classification : Refer to Section 2: Hazards Identification of this SDS for classification of substance.

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	ammonia	7664-41-7	100
Supplier notification	ammonia	7664-41-7	100

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts : This material is listed.

Section 15. Regulatory information

New York : This material is listed.

New Jersey : This material is listed.

Pennsylvania : This material is listed.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol (Annexes A, B, C, E)

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia : This material is listed or exempted.

Canada : This material is listed or exempted.

China : This material is listed or exempted.

Europe : This material is listed or exempted.

Japan : **Japan inventory (ENCS)**: This material is listed or exempted.
Japan inventory (ISHL): This material is listed or exempted.

Malaysia : This material is listed or exempted.

New Zealand : This material is listed or exempted.

Philippines : This material is listed or exempted.

Republic of Korea : This material is listed or exempted.

Taiwan : This material is listed or exempted.

Thailand : Not determined.

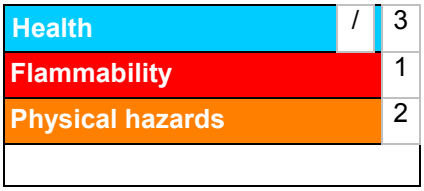
Turkey : This material is listed or exempted.

United States : This material is listed or exempted.

Viet Nam : Not determined.

Section 16. Other information

Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)

Section 16. Other information

Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright ©1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Procedure used to derive the classification

Classification	Justification
FLAMMABLE GASES - Category 2	Expert judgment
GASES UNDER PRESSURE - Liquefied gas	Expert judgment
ACUTE TOXICITY (inhalation) - Category 4	Expert judgment
SKIN CORROSION - Category 1	Expert judgment
SERIOUS EYE DAMAGE - Category 1	Expert judgment
AQUATIC HAZARD (ACUTE) - Category 1	Expert judgment

History

Date of printing : 10/9/2018

Date of issue/Date of revision : 10/9/2018

Date of previous issue : 10/5/2018

Version : 1.08

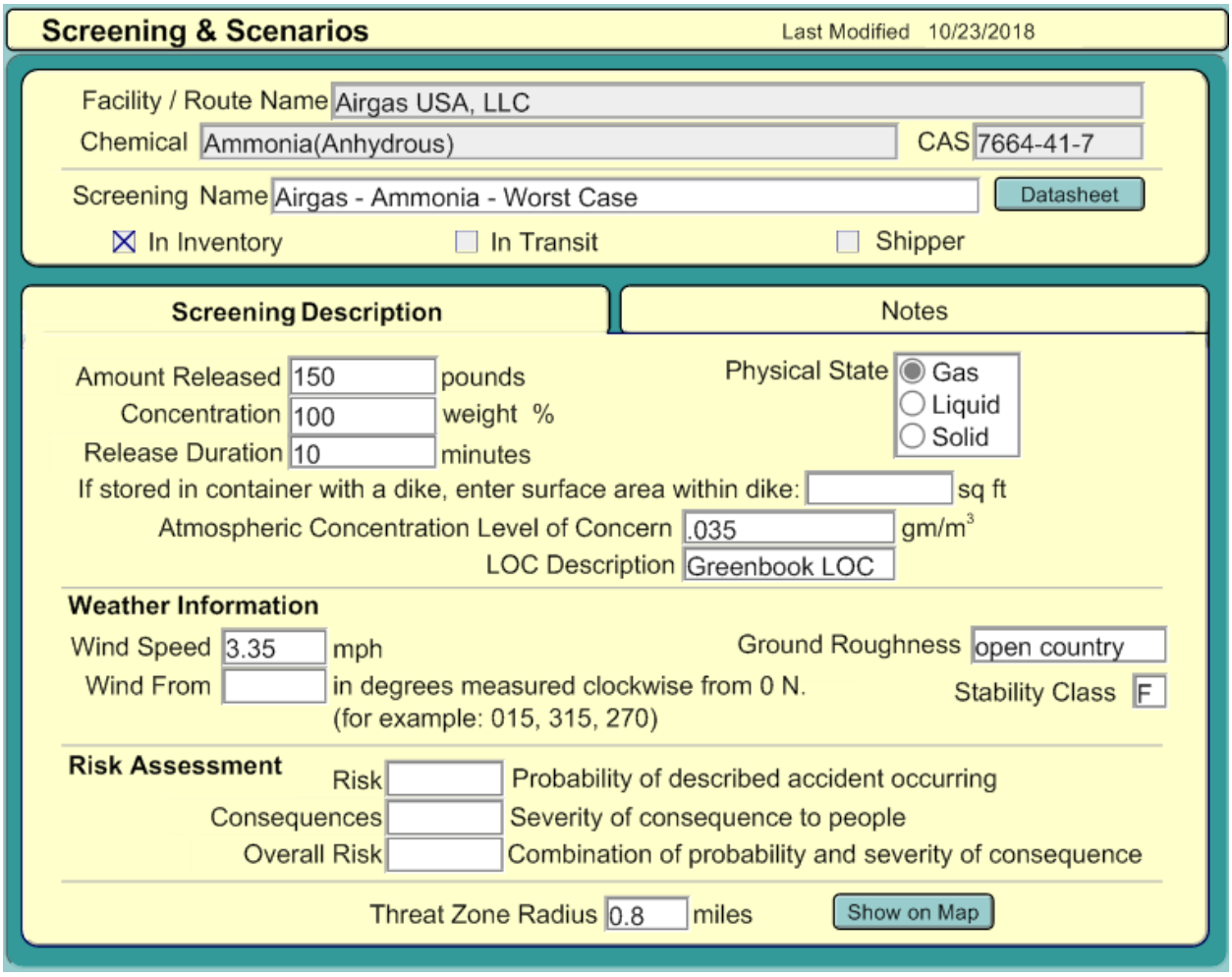
Key to abbreviations : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
UN = United Nations

References : Not available.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.
Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

APPENDIX 3: CAMEO CALCULATIONS



Screening & Scenarios Last Modified 10/23/2018

Facility / Route Name: Airgas USA, LLC

Chemical: Ammonia(Anhydrous) CAS: 7664-41-7

Screening Name: Airgas - Ammonia - Worst Case [Datasheet]

☒ In Inventory ☐ In Transit ☐ Shipper

Screening Description | Notes

Amount Released: 150 pounds

Concentration: 100 weight %

Release Duration: 10 minutes

Physical State: ◉ Gas ○ Liquid ○ Solid

If stored in container with a dike, enter surface area within dike: sq ft

Atmospheric Concentration Level of Concern: .035 gm/m^3

LOC Description: Greenbook LOC

Weather Information

Wind Speed: 3.35 mph

Wind From: in degrees measured clockwise from 0 N. (for example: 015, 315, 270)

Ground Roughness: open country

Stability Class: F

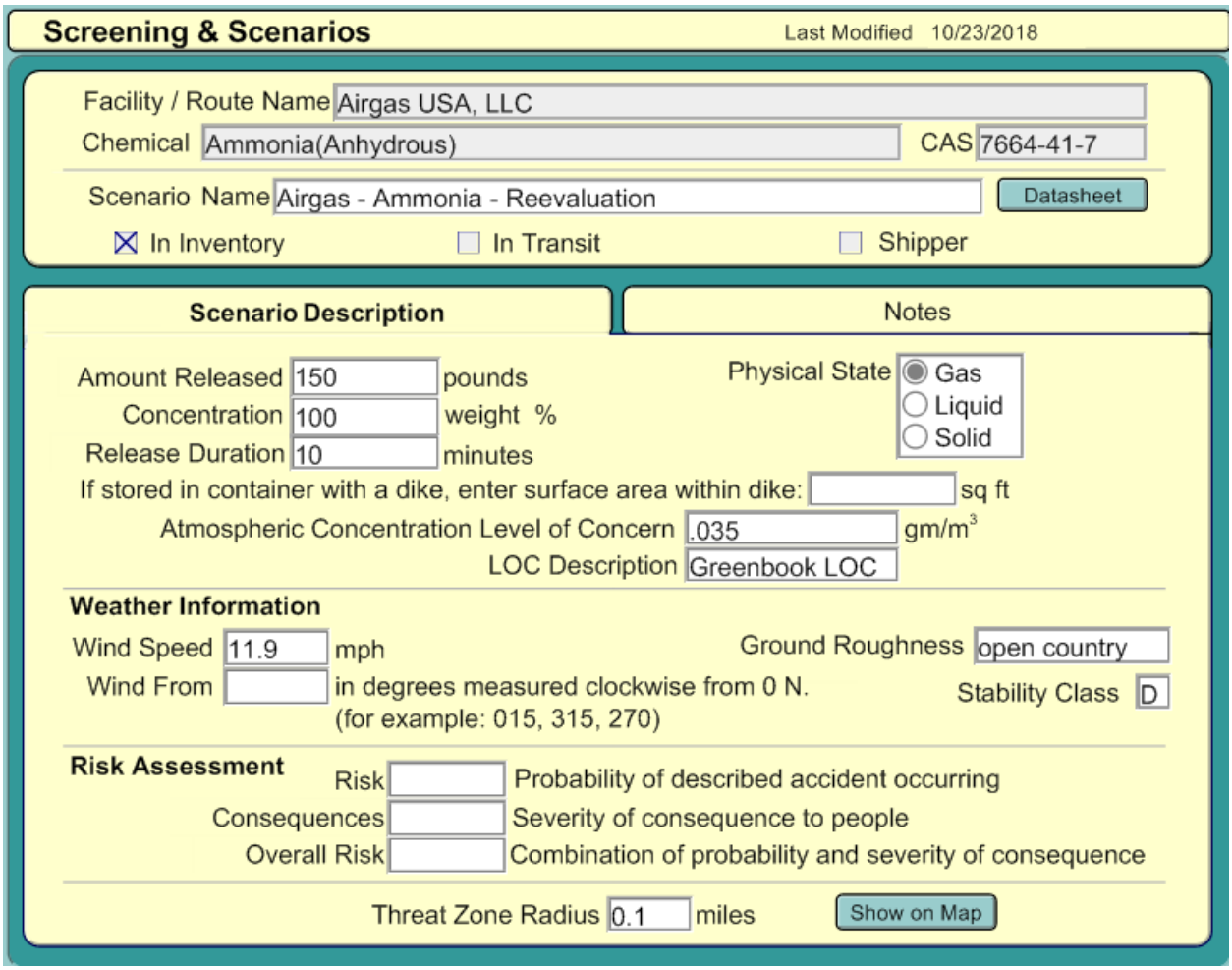
Risk Assessment

Risk: Probability of described accident occurring

Consequences: Severity of consequence to people

Overall Risk: Combination of probability and severity of consequence

Threat Zone Radius: 0.8 miles [Show on Map]


Screening & Scenarios
Last Modified 10/23/2018
Facility / Route Name Airgas USA, LLC
Chemical Ammonia(Anhydrous)
CAS 7664-41-7
Scenario Name Airgas - Ammonia - Reevaluation
Datasheet
In Inventory
In Transit
Shipper
Scenario Description
Notes
Amount Released 150 pounds
Concentration 100 weight %
Release Duration 10 minutes
Physical State Gas Liquid Solid
If stored in container with a dike, enter surface area within dike: sq ft
Atmospheric Concentration Level of Concern .035 gm/m3
LOC Description Greenbook LOC
Weather Information
Wind Speed 11.9 mph
Wind From in degrees measured clockwise from 0 N.
(for example: 015, 315, 270)
Ground Roughness open country
Stability Class D
Risk Assessment
Risk Probability of described accident occurring
Consequences Severity of consequence to people
Overall Risk Combination of probability and severity of consequence
Threat Zone Radius 0.1 miles
Show on Map

EPCRA HAZARDOUS MATERIALS FACILITY OFF-SITE PLAN

TRANSMITTAL FORM AND REVIEW GUIDE

COUNTY: Eau Claire

NEW ☐ UPDATE ☑ FINAL UPDATE ☐

Facility ID No. : 197641

Facility Name: CURT Group

Facility Address: 6208 Industrial Drive, Eau Claire, Wisconsin 54701

STATEMENT OF PLANNING PROCESS

This plan has been prepared in accordance with state and local requirements and is ready to be made a part of the County Emergency Operations Plan (EOP) / Emergency Response Plan (ERP) upon Wisconsin Emergency Management (WEM) / State Emergency Response Commission (SERC) acceptance. This plan meets the facility off-site planning guidance as established by WEM / SERC. Acceptance of this plan is for planning purposes and does not verify facility compliance with the requirements of EPCRA.

FACILITY SIGNATURES:

I have reviewed the attached plan and to the best of my knowledge, all facility information is true, accurate, and complete. The plan is consistent with facility emergency plans and procedures.

Dean Murphy — Facility Coordinator

04/26/2022 — Date

COUNTY SIGNATURES

I have reviewed the attached plan and to the best of my knowledge, all information is true, accurate, and complete.

_____ — County Local Emergency Planning Committee Chair

_____ — Date

_____ — County Emergency Management Director

_____ — Date

WEM / SERC ACCEPTANCE:

This plan has been reviewed and meets the off-site planning guidance as established by WEM / SERC.

_____ — WEM Regional Director

_____ — Date

NOTE: Facility Off-Site Plan Review Guide attached: Yes ☑ No ☐

EPCRA HAZARDOUS MATERIALS FACILITY OFF-SITE PLAN

TRANSMITTAL FORM AND REVIEW GUIDE

COUNTY: Eau Claire

NEW ☐ UPDATE ☑ FINAL UPDATE ☐

Facility ID No. : 197641

Facility Name: CURT Group

Facility Address: 6208 Industrial Drive, Eau Claire, Wisconsin 54701

FACILITY OFF-SITE PLAN REVIEW GUIDE

EPCRA Facility Off-Site Plan Elements		Page Number Reference
1)	The facility identification with address.	4
2)	Facility Coordinator / Alternate Coordinator	4
3)	Extremely Hazardous Substances (EHS) chemicals Identified with CAS numbers and maximum amount	4 - 5
4)	Primary emergency responders identified	7
5)	Support and resources available from facility	5
6)	General Information / Assumptions (Disclaimer)	8
7)	Hazard analysis summary	6
8)	Special facilities affected	9 - 12
9)	Population protection	7
10)	Special considerations	7
11)	Site Plan / Facility Layout	16 (Appendix 1)

EPCRA HAZARDOUS MATERIALS FACILITY OFF-SITE PLAN

TRANSMITTAL FORM AND REVIEW GUIDE

COUNTY: Eau Claire

NEW ☐ UPDATE ☑ FINAL UPDATE ☐

Facility ID No. : 197641

Facility Name: CURT Group

Facility Address: 6208 Industrial Drive, Eau Claire, Wisconsin 54701

12) Distribution list:

Facility

Fire Department of jurisdiction

Wisconsin Emergency Management- Region Office

Designated Hazmat team

County Emergency Management Office

Adjacent County Emergency Management Office when impacted by vulnerability zone

13) Required Attachments

A. Vulnerability Zone map highlighting special facilities: 13 - 15

B. Safety Data Sheet (SDS) for each EHS: 16 - 27 (Appendix 2)

C. Vulnerability Zone Calculations: 28 - 31 (Appendix 3)

D. Transportation route(s) map:

Curt Group
Facility Off-Site
Emergency Response Plan

Facility #197641
Curt Group
6208 Industrial Drive
Eau Claire, Wisconsin 54701

Eau Claire County Emergency Management
721 Oxford Avenue, Suite 3344
Eau Claire, Wisconsin 54703

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RECORD OF CHANGES

Change	Date Changed	Change Made By
Initial Draft	June 2018	J. Allen
Update	April 2022	S. Simmons

SECTION 1: FACILITY INFORMATION

A. Address

CURT Group
6208 Industrial Drive
Eau Claire, WI 54701

B. Facility ID

197641

C. Map

D. Emergency Contacts

Primary:
Dean Murphy
Phone: 715-471-6910
24 Hour: 715-225-6635
dean.murphy@curtgroup.com

Secondary:
Mike Christensen
Phone: 715-831-8713
24 Hour: 715-829-2804
michael.christensen@curtgroup.com

E. Extremely Hazardous Substances

Bonderite M-AD 35 Autodeposition Additive Known As Aquence 35 Activator (Hydrogen Fluoride) Chemical ID: 453067 CAS: 7664393 **ERG: Guide 125**	**Inventory:** Max Daily Amount (lbs): 4149 Ave. Daily Amount (lbs): 4149 Number of days on site: 365 10% Hydrogen Fluoride Max Daily Amount (lbs): 414.9	**Storage:** Container: Plastic or Nonmetallic Drum Location: Northeast Main Manufacturing Building
Bonderite S-WT 443 Watere Treatment Known As Base 443 Chemical ID: 453068 CAS: 7664939 **ERG: Guide 137**	**Inventory:** Max Daily Amount (lbs): 7200 Ave. Daily Amount (lbs): 7200 Number of days on site: 365 60% Sulfuric Acid Max Daily Amount (lbs): 4320	**Storage:** Container: Plastic or Nonmetallic Drum Location: Northeast Main Manufacturing Building

Forklift Batteries (Sulfuric Acid and Lead) Chemical ID: 453069 CAS: N/A **ERG: Guide 137**	**Inventory:** Max Daily Amount (lbs): 47003.2 Ave. Daily Amount (lbs): 47003.2 Number of days on site: 365 10.45% Sulfuric Acid Max Daily Amount (lbs): 4911.8344	**Storage:** Container: Other Desc: Forklift Battery Location: Forklift

F. Hazardous Substances

Argon (Compressed) Chemical ID: 453063 CAS: 7440371 **ERG: Guide 121**	**Inventory:** Max Daily Amount (lbs): 34890 Ave. Daily Amount (lbs): 34890 Number of days on site: 365	**Storage:** Container: Above Ground Tank Location: North Alley Behind Main Manufacturing Building
Bonderite M-AD 1500CL Neutralizer Known As Neutralizer 1500CL (Sodium Hydroxide) Chemical ID: 453070 CAS: N/A **ERG: Guide**	**Inventory:** Max Daily Amount (lbs): 16048 Ave. Daily Amount (lbs): 16048 Number of days on site: 365	**Storage:** Container: Tote Bin Location: Northeast Main Manufacturing Building
Carbon Dioxide (Liquid) Chemical ID: 453065 CAS: 124389 **ERG: Guide 120**	**Inventory:** Max Daily Amount (lbs): 12000 Ave. Daily Amount (lbs): 12000 Number of days on site: 365	**Storage:** Container: Above Ground Tank Location: North Alley Behind Main Manufacturing Building
Nitrogen (Liquid) Chemical ID: 453066 CAS: 7727379 **ERG: Guide 121**	**Inventory:** Max Daily Amount (lbs): 87685 Ave. Daily Amount (lbs): 87685 Number of days on site: 365	**Storage:** Container: Above Ground Tank Location: North Alley Behind Main Manufacturing Building
Oxygen (Liquid) Chemical ID: 28581 CAS: 7782447 **ERG: Guide 122**	**Inventory:** Max Daily Amount (lbs): 28581 Ave. Daily Amount (lbs): 28581 Number of days on site: 365	**Storage:** Container: Above Ground Tank Location: North Alley Behind Main Manufacturing Building

G. Resources/Support Available

CURT has limited resources/support available for off-site Emergencies. There are 150 extinguishers on site, located throughout the manufacturing and distribution facilities. Limited absorbent supplies and containment are available. Communication equipment is mostly done through cell phones. Forklifts and scissors lifts are used and available if needed.

H. Hazard Analysis

CURT Group is a hitch and towing products manufacturer. There are an average of 300 employees on site for first shift and 160 at all other times. The size of the building is approximately 150,000 square feet. The facility uses Bonderite M-AD 35 and Bonderite S-WT 443 are used in the Powder department located in the northeastern corner of the building. Bonderite M-AD 35 contains 10% Hydrogen Fluoride, an extremely hazardous substance (EHS). Bonderite S-WT 443 contains 60% Sulfuric Acid, an extremely hazardous substance.

Sulfuric Acid is present at 4,912 lbs in a concentration of 10.45% or less, battery electrolyte solution. The credible worst-case scenario involves a release of 4,912 lbs of Sulfuric Acid in battery electrolyte solution at a concentration of 10.45% or less. The result is a vulnerability zone that would stay within the perimeters of the facility and would not affect any special facilities off-site.

The hazard analysis determined Hydrogen Fluoride and Sulfuric Acid to be the major chemical hazards present at the facility. The modeled evaluation area is based on the worst-case scenario for both chemicals ten minutes after a catastrophic failure of containment. The largest amount of hydrogen fluoride (414.9 pounds) is located in four plastic or non-metallic drums at the main manufacturing building. The largest amount of sulfuric acid (4,320 pounds) is located in 16 plastic or non-metallic drums at the main manufacturing building.

The worst-case scenario criteria are:
Neutral Air Stability (Class F)
Night Time
Open Country
3.35 mph wind
1/10 IDLH (Immediately Dangerous to Life and Health) concentration
Rapid release of maximum quantity of chemical in a single vessel (10 min.)
The reevaluation scenario criteria are:
Neutral Air Stability (Class D)
Open Country
11.9 mph wind
1/10 IDLH (Immediately Dangerous to Life and Health) concentration
10 minute release of maximum quantity of chemical in a single vessel

The evacuation radius, as calculated by the CAMEO software package for a 414.9-pound Hydrogen Fluoride release, was determined to be greater than 10 miles. It is estimated that 109,168 people may be affected by the release (46,244 housing units).

Reevaluation of a 414.9-pound release of Hydrogen Fluoride using more realistic variables in the CAMEO model yields an evacuation radius of 1.5 miles. The population in this area is estimated to be 5,405 people (2,561 housing units).

The evacuation radius, as calculated by the CAMEO software package for a 4,320-pound Sulfuric Acid release, was determined to be less than 0.1 miles. It is estimated that 0 people may be affected by the release (0 housing units); a release will primarily affect those on the site.

Reevaluation of a 4,320 pound Sulfuric Acid using more realistic variables in the CAMEO model yields an evacuation radius of less than 0.1 miles. The affected population in this area is likely those in the immediate vicinity of the facility.

I. Access to Facility

Curt Group is accessed from Industrial Drive at the southwestern site boundary by heading East of Eau Claire on US Highway 12. The access road is surfaced with asphalt and leads to asphalt-paved parking areas present to the south of the manufacturing building and in the center portion of the site, which are connected by a paved roadway located between the manufacturing and distribution buildings. Asphalt and concrete-paved loading areas are present along the eastern wall of the manufacturing building and the western wall of the distribution building. The areas south of both buildings and around the perimeter of the center parking lot are landscaped with grass and other vegetation, and heavily wooded areas are located on the northern, eastern, and southeastern portions of the site. The heavily wooded areas do not have any points of access and are located on steeply sloped land.

Operations at the site are conducted 20 hours per day in two or three shifts, seven days a week.

SECTION 2: OUTSIDE RESOURCES

A. Primary Response Agencies

Fire:	**EMS:**	**Law:**	**Emergency Management:**
Altoona Fire Department 1904 Spooner Avenue Altoona, WI 54720 Phone: 715-839-2970	Altoona Fire Department 1904 Spooner Avenue Altoona, WI 54720 Phone: 715-839-2970	City of Altoona Police 1904 Spooner Avenue Altoona, WI 54720 Phone: 715-839-6090	Eau Claire County Emergency Management 721 Oxford Avenue Suite 3344 Eau Claire, WI 54703 Phone: 715-839-4736

B. Hazardous Materials Response Teams

Eau Claire County has a Level B hazardous materials response team. For Level B response, the local Fire Chief notifies the Level B team of a response needed through the Eau Claire County Emergency Communications Center. For Level A responses by the Type 1 Regional Hazardous Materials Response Team, requests shall be made through the WEM Duty officer by the county Emergency Management Coordinator.

C. Other Outside Assistance

See the County-Wide Hazardous Materials Strategic Plan for a listing of resources.

SECTION 3: POPULATION/ENVIRONMENTAL PROTECTION

A. Shelter-In-Place

The lead time for a hazardous materials incident may be very short. As a result, there may not be time enough for 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.

B. Evacuation

Experience indicated that shelter space would need to be provided for only 30% of the population within the initial isolation and evacuation zones and the remaining 70% would seek shelter with family and friends outside the risk zone. All public schools listed are eligible evacuation shelters.

C. Nearby Shelters

Not applicable

SECTION 4: VULNERABILITY ZONES

A. General Information and Assumptions

The vulnerability zones set forth in the Plan are based on the EPA Technical Guidance for Hazards Analysis. The zones are based on a credible worst-case scenario and identify the potential area for impact should an air-borne release of a single EHS chemical occur.

The vulnerability zones are NOT intended to be used as a guide for population protection in fire-related incidents. Fire incidents were considered in the development of this plan and the plan provides basic information about the facility for first responders to employ. However, in an actual fire situation at this facility, the Incident commander is strongly recommended to reference the fire department own individual agency pre-emergency plans and standard operating procedures as well as the county's Emergency Operations Plan – Annex K: Fire and Rescue, as they may relate to this facility when making decisions at an incident involving fire.

Further, fire departments that would respond to an incident at this facility are strongly encouraged to meet with facility representatives to determine ways to minimize an event at the facility and to determine what additional information and factors should be taken into consideration in the event of a fire, should one occur.

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 the Plan are for general PLANNING PURPOSES.

B. Special Facilities Affected

"I" Care Day Care Center Inc 2821 Fairfax St Eau Claire, WI 54720	**A Child's World Early Learning Center** 2857 Western Ave	**Altoona Early Education Center** 701 W Seventh St Altoona, WI 54720

715-552-1234	Eau Claire, WI 54703 715-835-7021	715-832-5543
Altoona Elementary School 157 Bartlett Ave Altoona, WI 54720 715-839-6050	**Altoona Family Child Care Center** 819 S Hillcrest Pkwy Altoona, WI 54720 715-552-5437	**Altoona High School** 711 7th Street West Altoona, WI 54720 715-839-6031
Altoona Middle School 1903 Bartlett Ave Altoona, WI 54720 715-839-6030	**Aurora Residential** 1302 Arien Ct Eau Claire, WI 54703 715-835-9202	**Aurora Residential Alternative** 3635 Livingston Ln Eau Claire, WI 54701 715-838-0719
Azura Memory of Eau Claire 3712 Damon St Eau Claire, WI 54701 715-832-6696	**Babes in Toyland Childcare** 4430 Tower Dr Eau Claire, WI 54703 715-830-9432	**Beautiful Minds Child Care** 2821 Fairfax St Eau Claire, WI 54701 715-834-4360
Bethel Christian School 2361 N Hastings Way Eau Claire, WI 54703 715-835-8866	**Brighter Beginnings Early Learning** 1612 Truax Blvd Eau Claire, WI 54703 715-831-9944	**Broadview University** 4955 Bullis Farm Rd Eau Claire, WI 54701 715-855-6600
Care Partners 887 Briar Ln Altoona, WI 54720 715-598-7401	**Care Partners Assisted Living** 3325 Birch St Eau Claire, WI 54701 715-514-3709	**Children's House Montessori** 415 E Lake St Eau Claire, WI 54701 715-835-7861
Chippewa Falls County Altrntv 2820 E Park Ave Chippewa Falls, WI 54729 715-723-5542	**Chippewa Falls Halmstad Elementary School** 565 South Ave Chippewa Falls, WI 54729 715-726-2415	**Chippewa Falls High School** 735 Terrill St Chippewa Falls, WI 54729 715-726-2406
Chippewa Falls Middle School 750 Tropicana Blvd Chippewa Falls, WI 54729 715-726-2400	**Chippewa Falls School District** 1130 Miles St Chippewa Falls, WI 54729 715-726-2417	**Chippewa Manor Retirement** 756 Irvine St Chippewa Falls, WI 54729 715-726-2123
Chippewa Valley Montessori Charter School 400 Cameron St Eau Claire, WI 54703 715-852-6950	**Chippewa Valley Technical College - Business Education Center** 620 W Clairemont Ave Eau Claire, WI 54701 715-833-6200	**Chippewa Valley Technical College-Emergency Service Education Center** 3623 Campus Rd Eau Claire, WI 54703 715-855-7500
Chippewa Valley Technical College-Energy Education Center 4000 Campus Rd Eau Claire, WI 54703 715-855-7502	**Chippewa Valley Technical College- Health Education Center** 615 W Clairemont Ave Eau Claire, WI 54701 715-833-6417	**Chippewa Valley Technical College-Manufacturing Education Center** 2320 Alpine Rd Eau Claire, WI 54703 715-874-4600
Circle Friends Early Learning 1750 Hallie Rd Chippewa Falls, WI 54729 715-552-9696	**City of Altoona** 1303 Lynn Ave Altoona, WI 54720 715-839-5192	**City of Eau Claire** 203 S Farwell St Eau Claire, WI 54701 715-839-4947
Clearwater Care Center 2120 Heights Dr Eau Claire, WI 54701 715-832-1681	**Color My World Child Care** 1903 Western Ave Eau Claire, WI 54703 715-835-2060	**Community Based Residential** 1930 Cleveland St Eau Claire, WI 54703 715-832-7904
Country Terrace of Altoona 1511 Devney Dr Altoona, WI 54720 715-835-3474	**Days Gone By Early Learning** 3221 Lorch Ave Eau Claire, WI 54701 715-835-1234	**Dearwood** 2011 N 60th Ave Eau Claire, WI 54703 715-830-0518
Delong Middle School 2000 Vine Street Eau Claire, WI 54703 715-852-4900	**Dove Healthcare- South Eau Claire** 3656 Mall Dr Eau Claire, WI 54701 715-552-1035	**Dove Healthcare- West Eau Claire** 1405 Truax Blvd Eau Claire, WI 54703 715-552-1030
Eau Claire Academy	**Eau Claire County Courthouse**	**Eau Claire County Jail**

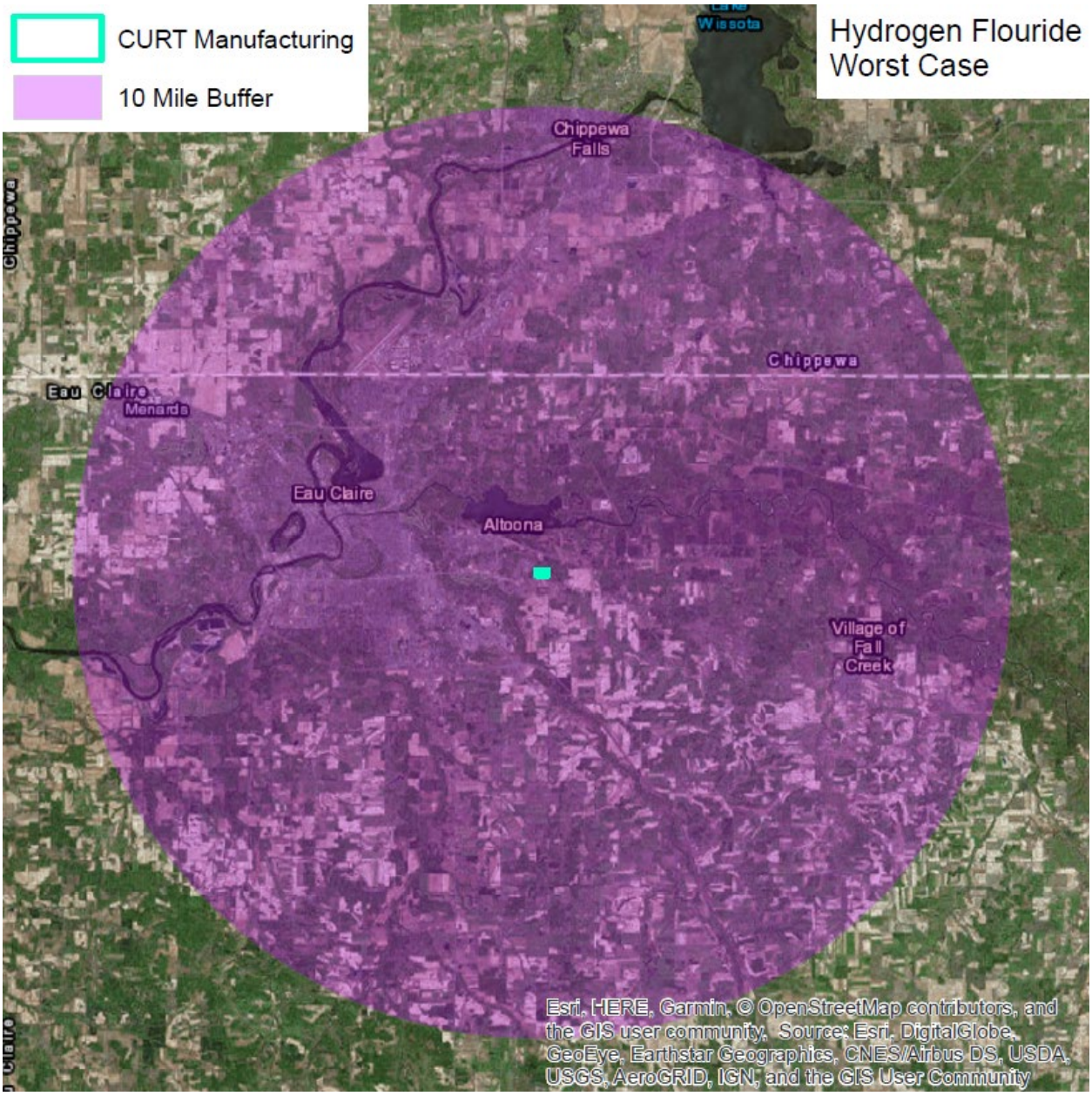
550 N Dewey St Eau Claire, WI 54703 715-834-6681	721 Oxford Ave Eau Claire, WI 54703 715-839-4710	710 2nd Ave Eau Claire, WI 54703 715-839-4702
Eau Claire Extension Office 227 1st St W A Altoona, WI 54720 715-839-4712	**Eau Claire Family Child Care** 2140 Sherwin Ave Eau Claire, WI 54701 715-834-5439	**Eau Claire KinderCare** 2115 Fairfax St Eau Claire, WI 54701 715-832-8099
Eau Claire Police Department 740 2nd Ave Eau Claire, WI 54703 715-839-4972	**Elk Mound High School** 405 University St Elk Mound, WI 54739 715-879-5521	**Elk Mound Middle School** 302 University St Elk Mound, WI 54739 715-879-5595
Family Tree 2005 Agnes St Eau Claire, WI 54701 715-832-3663	**Family Tree Child Care Center** 320 Division St Altoona, WI 54720 715-894-7529	**Federal Bureau of Investigation** 216 Pinnacle Way #310 Eau Claire, WI 54701 715-835-3761
Flynn Elementary School 1430 Lee St Eau Claire, WI 54701 715-852-3300	**From the Roots Early Learning Center, LLC** 2912 London Rd Eau Claire, WI 54701 715-514-4881	**GCBK Group Homes Inc** 2821 Beverly Hills Dr Eau Claire, WI 54701 715-855-7701
Genesis Child Development Center 418 N Dewey St Eau Claire, WI 54703 715-830-2275	**Giggles Child Care Center** 1626 Starr Ave Eau Claire, WI 54703 715-833-8767	**Grace Edgewood Asst** 2512 Spooner Ave Altoona, WI 54720 715-832-5813
Grace Lutheran Communities 3410 Sky Park Blvd Eau Claire, WI 54701 715-832-3003	**Grace Lutheran Communities-River Pines** 206 N Willson Dr Altoona, WI 54720 715-598-7800	**Grace Lutheran Foundation Inc** 822 Porter Ave Eau Claire, WI 54701 715-832-3003
Grace School Age Child Care 3410 Sky Park Blvd Eau Claire, WI 54701 715-832-3039	**Grace Willowbrook** 4868 Otteson Ln Eau Claire, WI 54701 715-835-0429	**Grace Woodlands** 3214 Gala St Eau Claire, WI 54703 715-831-8100
Gracelands Daycare LLC 1711 Bellinger St Eau Claire, WI 54703 715-832-4310	**Hand in Hand- A Place-Children** 800 Wisconsin St Eau Claire, WI 54703 715-833-7744	**Harbor House** 3712 Damon St Eau Claire, WI 54701 715-832-6696
Heatherwood Assisted Living & Memory Care 4510 Gateway Dr Eau Claire, WI 54701 715-598-2768	**Heritage Court Memory Care** 3515 E Hamilton Ave Eau Claire, WI 54701 715-831-8200	**Heritage Court Memory Care** 3515 E Hamilton Ave Eau Claire, WI 54701 715-831-8200
Heritage Senior Living at Oakwood Hills 3706 Damon St Eau Claire, WI 54701 715-831-9118	**Holy Ghost Elementary School** 436 Main St Chippewa Falls, WI 54729 715-723-6478	**Hope Lutheran Preschool** 2226 Eddy Ln Eau Claire, WI 54703 715-832-2998
Immanuel Lutheran High School, College, & Seminary 501 Grover Rd Eau Claire, WI 54701	**Kids Kingdom Mcp Llc** 3628 Spooner Ave Altoona, WI 54720 715-514-3381	**Lake Hallie Memory Care** 4407 124th St Chippewa Falls, WI 54729 715-738-0011
Lakeshore Elementary School 711 Lake Street Eau Claire, WI 54703 715-852-3400	**Learn-A-Lot Preschool & Daycare** 2834 W Princeton Ave Eau Claire, WI 54703 715-834-0308	**Learning Center** 1721 Westgate Rd Eau Claire, WI 54703 715-598-1819
Liberty Christian School 6027 60th Ave	**lil dudes-N-divas Daycare** 3631 E Hamilton Ave	**Little Bloomers Child Care Center** 3980 Tamara Dr

Chippewa Falls, WI 54729 715-723-0336	Eau Claire, WI 54701 715-598-7003	Eau Claire, WI 54701 715-839-1050
Little Jungle Childcare 5433 Star Ridge Rd Eau Claire, WI 54703 715-874-6300	**Little School House. LLC** 2328 N Hillcrest Pkwy Altoona, WI 54720 715-214-6609	**Little Star 2** 428 1st St W Altoona, WI 54720 715-271-0743
Little Star Daycare 2245 Hayden Ave Altoona, WI 54720 715-832-1513 ext. 4	**Locust Lane Elementary School** 3245 Locus Ln Eau Claire, WI 54703 715-852-3700	**Luther Midelfort Clairemont** 733 W Clairemont Ave Eau Claire, WI 54703 715-838-5222
Manz Elementary School 1000 E. Fillmore Ave Eau Claire, WI 54701 715-852-3900	**Marshfield Clinic** 1002 W Clairemont Ave Eau Claire, WI 54701 715-858-4099	**Marshfield Clinic** 1262 W Clairemont Ave Eau Claire, WI 54701 715-858-4610
Mayo Clinic - Luther Campus 1221 Whipple St Eau Claire, WI 54703 715-838-3311	**Mayo Clinic Health System** 1400 Bellinger St Eau Claire, WI 54702 715-838-5222	**McDonnell Central Catholic High School** 1316 Bel Air Blvd Chippewa Falls, WI 54729 715-723-9126
McKinley Charter School 1266 McKinley Road Eau Claire, WI 54703 715-852-6900	**Meadowview Elementary School** 4714 Fairfax Street Eau Claire, WI 54701 715-852-4000	**Memorial High School** 2225 Keith St Eau Claire, WI 54701 715-852-6300
Mike Wilson House 2409 Rudolph Rd Eau Claire, WI 54701 715-838-9967	**Milestone Senior Living- Eau Claire** 5512 Renee Dr Eau Claire, WI 54703 715-210-0178	**Mound View Elementary School** 455 University St Elk Mound, WI 54739 715-879-5744
Natural Resources Conservation 1304 N Hillcrest Pkwy # A Altoona, WI 54720 715-832-6547	**New Hope Inc** 10875 40th Ave Chippewa Falls, WI 54729 715-720-7360	**North High School** 1801 Piedmont Rd Eau Claire, WI 54703 715-852-6600
Northstar Middle School 2711 Abbe Hill Dr Eau Claire, WI 54703 715-852-5100	**Oak Gardens Place** 342 Twin Oak Dr Altoona, WI 54720 715-598-3447	**OakLeaf Surgical Hospital** 1000 OakLeaf Way Altoona, WI 54720 715-831-8130
Oakwood Villa 2512 New Pine Dr Altoona, WI 54720 715-833-0400	**Oakwood Villa** 2512 New Pine Dr Altoona, WI 54720 715-839-7027	**Our House Senior Living- Memory Care** 733 W Hamilton Ave Eau Claire, WI 54701 715-832-3970
Parkview Elementary School 501 Jefferson Ave Chippewa Falls, WI 54729 715-720-3750	**Popular Place** 3012 Milton Rd Eau Claire, WI 54703 715-832-1745	**Putnam Heights Elementary School** 633 W MacArthur Ave Eau Claire, WI 54701 715-852-4200
Rachel's Place Early Learning 2226 Eddy Ln Eau Claire, WI 54703 715-832-1414 ext. 2200	**Real Life Co-Op** 4115 Jeffers Rd Eau Claire, WI 54703 715-835-7622	**Redeemer Christian Preschool** 601 Fall St Eau Claire, WI 54703 715-835-5239
Regis Child Development Center 2114 Fenwick Ave Eau Claire, WI 54701 715-830-2274	**Regis High School** 2100 Fenwick Ave Eau Claire, WI 54701 715-830-2271	**Robins Elementary** 3832 E Hamilton Ave Eau Claire, WI 54701 715-852-4600
Sacred Heart Hospital 900 W Clairemont Ave Eau Claire, WI 54701	**Saint Charles Borromeo Primary School** 429 W Spruce St	**Sandy's Helping Hands Daycare** 1639 Ludgate St Chippewa Falls, WI 54729

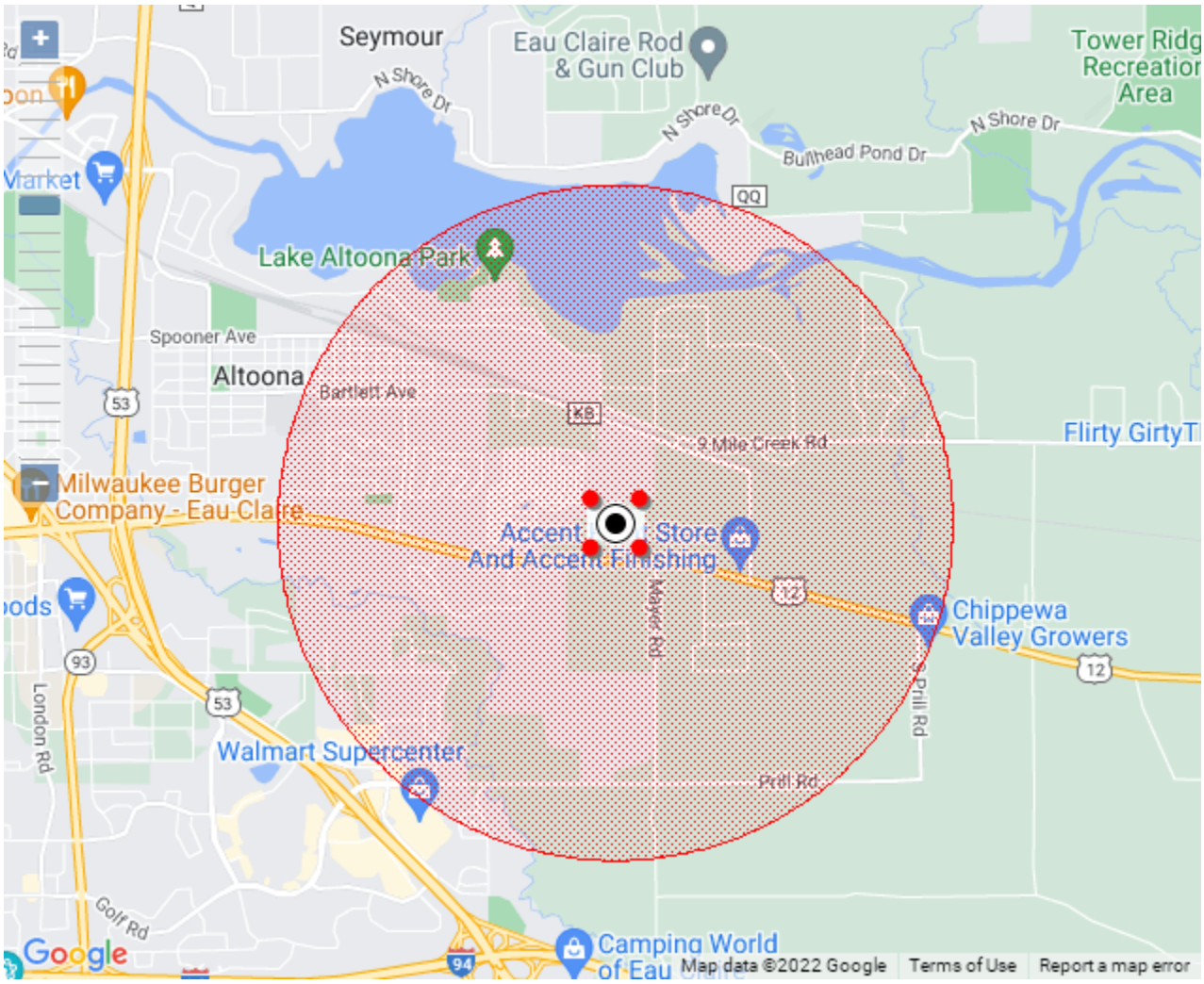
715-717-4121	Chippewa Falls, WI 54729 715-723-5827	715-723-8168
Shared Blessings Child Development Center 520 E Grand Ave Chippewa Falls, WI 54729 534-220-7051	**Sisters of St Benedict** 2120 Heights Dr Eau Claire, WI 54701 715-852-6221	**Sleepers to Sneakers** 1303 Margaret St Eau Claire, WI 54701 715-834-6794
South Middle School 2115 Mitscher Ave Eau Claire, WI 54701 715-852-5200	**Southview Elementary School** 615 A St Chippewa Falls, WI 54729 715-726-2411	**St Mark's Lutheran School** 3307 State St Eau Claire, WI 54701 715-834-5782
Stay N Play 417 William St Eau Claire, WI 54703 715-833-8331	**Syverson Lutheran Home** 816 Porter Ave Eau Claire, WI 54701 715-832-1644	**The Classic at Hillcrest Greens** 2455 Sawgrass Pl Altoona, WI 54720 715-839-0200
The Kiddie Patch Early Learning Center 4605 London Rd Eau Claire, WI 54701 715-833-9464	**The Learning Tree Child Care Center** 2140 Sherwin Ave Eau Claire, WI 54701 715-834-5439	**University of Wisconsin Eau Claire** 105 Garfield Ave P.O. Box 4004 Eau Claire, WI 54702 715-836-4636
Westridge 3841 96th St Chippewa Falls, WI 54729 715-720-1309	**YMCA-St. Mary's Elementary School** 1828 Lynn Ave Altoona, WI 54720 715-830-2278	**Youthful Minds Learning Center** 827 S Hillcrest Pkwy. Altoona, WI 54720 715-894-7529

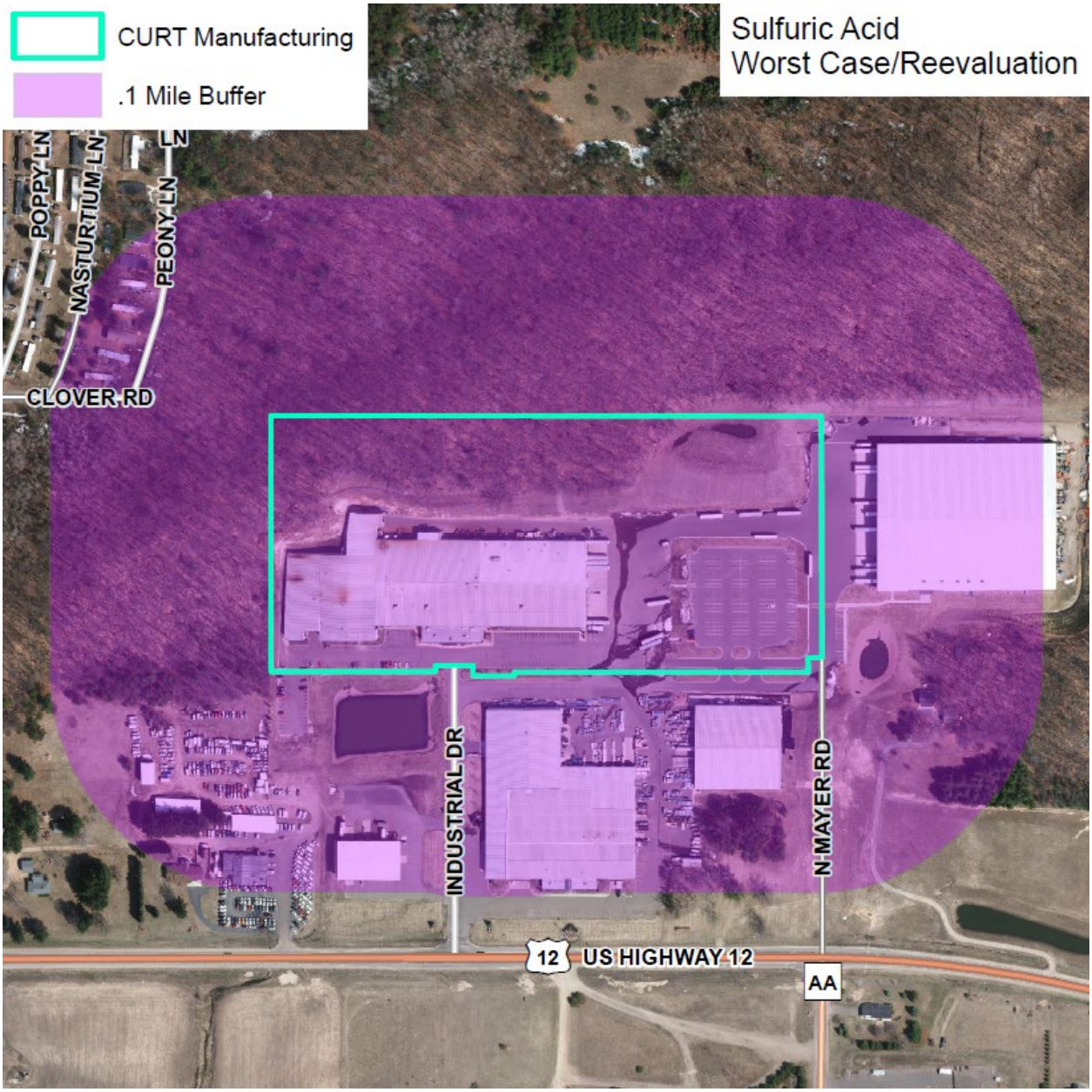
C. Vulnerability Zone Map

See attached maps


CURT Manufacturing
10 Mile Buffer
Hydrogen Flouride
Worst Case
Wissota
Chippewa
Falls
Chippewa
Eau Claire
Menards
Eau Claire
Altoona
Village of
Fall
Creek
Esri, HERE, Garmin, © OpenStreetMap contributors, and the GIS user community, Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Hydrogen Flouride – Reevaluation – 1.5 Mile Buffer

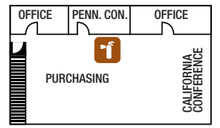



CURT Manufacturing
.1 Mile Buffer
Sulfuric Acid
Worst Case/Reevaluation
POPPY LN
NASTURTIUM LN
PEONY LN
LN
CLOVER RD
INDUSTRIAL DR
N MAYER RD
12
US HIGHWAY 12
AA

MAIN BUILDING

N

SECOND LEVEL (above breakroom)



- STRETCHING STATION
- STORM SHELTER
- FIRE EXTINGUISHER
- EYE WASH STATION
- MEDICAL SUPPLIES
- ENTRANCE/EXIT
- BIOHAZARD
- FIRE HYDRANT
- EAR PROTECTION
- SDS ACCESS
- SHOWER STATION
- CONVEYOR E-STOP BUTTON
- FIRE DOOR
- DOOR

RAW MATERIAL RECEIVING
RECEIVER TUBE AND STANDARD PARTS
BALL MOUNTS
GAS TANKS
LOX
CO2
ARG
SMOKING AREA
MATERIAL STORAGE
MAINTENANCE AREA
MANUEL WELD
WELDING CELLS
WELDING CELLS
BALL MOUNTS
BURN OFF OVEN
AQUENCE
A-COAT LAB
LABEL STORAGE
POWDER APPLICATION
CURE OVEN
CHEMICAL STAGING AREA
OFFICES
KITCHEN
BREAK ROOM
RAW MATERIALS
TUBING WIP
FIXTURE STORAGE
KANBAN STORAGE FOR REC. TUBES
FIXTURE STORAGE
FIXTURE STORAGE
GENESIS RT ROBOT
ROUND TUBE ROBOTIC WELD
GENESIS ROBOTS
OTC
OTC
SQUARE TUBE ROBOTIC WELD
FIXTURE STORAGE
FIXTURE STORAGE
FIXTURE ASSEMBLY/STORAGE
ELECTRICAL ASSEMBLY
D01 PACKAGING
CHAIN ASSEMBLY
ELEC. OFF.
FIRE CONTROL PANEL
SMOKING AREA
WHITNEY - PLASMA/PUNCH
WHITNEY - PLASMA/PUNCH
HIGH VOLUME PLATE PROCESSING
INTERMEDIATE VOLUME PLATE PROCESSING
LOW VOLUME PLATE PROCESSING
VERTICAL BAND SAW
TUBE PROCESSING
VERTICAL BAND SAW
VERTICAL BAND SAW
VERTICAL BAND SAW
HAAS MACHINING CENTER
TUBE LASER
OMF & OBS
FIRST TO MARKET (ENGINEERING)
TUBE BENDING
TUBE BENDING
YLM BENDER
AIR COMPRESSOR ROOM
WIP
WIP
IT CAGE
ACCOUNTING
CON. ROOM
SAFETY MGR
GEORGIA CON.
HR
HR
HR
CFO
ACCT
ACCT
WISCONSIN CONFERENCE
VIDEO
ENG LIFT
1ST LEVEL: RESTROOMS
ELEVATOR

40 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 29 33 34 35 36 37 38 39

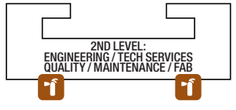
R R R R R R

H H F R R

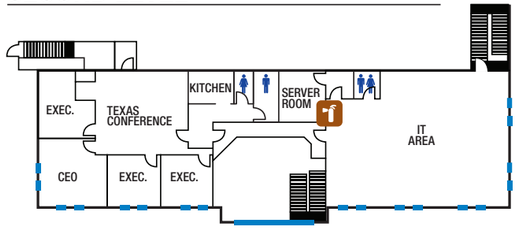
H - Handicap V - Visitor F - Featured Associate R - Reserved

MAIN ENTRANCE

SECOND LEVEL (above restrooms)



SECOND LEVEL



ROAD ENTRANCE

H - Handicap V - Visitor F - Featured Associate R - Reserved

J & D MANUFACTURING

Safety Data Sheet

Revision Number: 004.3

Issue date: 03/31/2017

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: **BONDERITE M-AD 35 AUTODEPOSITION ADDITIVE known as AQUENCE 35 ACTIVATOR**

IDH number: 593920

Product type: Additive

Item number: 593920

Restriction of Use: None identified

Region: United States

Company address:
Henkel Corporation
One Henkel Way
Rocky Hill, Connecticut 06067

Contact information:
Telephone: +1 (860) 571-5100
MEDICAL EMERGENCY Phone: Poison Control Center
1-877-671-4608 (toll free) or 1-303-592-1711
TRANSPORT EMERGENCY Phone: CHEMTREC
1-800-424-9300 (toll free) or 1-703-527-3887
Internet: www.henkelna.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER: TOXIC IF SWALLOWED.
FATAL IN CONTACT WITH SKIN.
CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.
MAY CAUSE AN ALLERGIC SKIN REACTION.
HARMFUL IF INHALED.
CAUSES DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE.

HAZARD CLASS	HAZARD CATEGORY
ACUTE TOXICITY ORAL	3
ACUTE TOXICITY INHALATION	4
ACUTE TOXICITY DERMAL	2
SKIN CORROSION	1B
SERIOUS EYE DAMAGE	1
SKIN SENSITIZATION	1
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE	1

PICTOGRAM(S)

Precautionary Statements

Prevention: Do not breathe vapors, mist, or spray. Do not get in eyes, on skin, or on clothing. Wash affected area thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, clothing, eye and face protection.

Response:	IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. Rinse mouth. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN: Gently wash with plenty of soap and water. Immediately call a POISON CENTER or doctor/ physician. If on skin (or hair): Take off immediately all contaminated clothing. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if you feel unwell. If skin irritation or rash occurs: Get medical attention. Take off contaminated clothing.
Storage:	Store locked up.
Disposal:	Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Percentage*
Hydrogen fluoride	7664-39-3	5 - 10

* Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections.

4. FIRST AID MEASURES

Inhalation:	If mist or vapor of this product is inhaled, remove person immediately to fresh air. Seek medical attention if symptoms develop or persist.
Skin contact:	Rinse with large amounts of running water. GET MEDICAL ATTENTION IMMEDIATELY! If iced 0.13% benzalkonium chloride (Zephiran) solution or 2.5% calcium gluconate gel are available, the rinsing may be limited to 5 minutes, with the soaks or gel applied as soon as the rinsing is stopped. If benzalkonium chloride or calcium gluconate gel is not available, rinsing must continue until medical treatment is provided.
Eye contact:	In case of contact with the eyes, rinse immediately with plenty of water for 15 minutes, and seek immediate medical attention.
Ingestion:	DO NOT induce vomiting unless directed to do so by medical personnel. Give one to two glasses of water or milk. Never give anything by mouth to a victim who is unconscious or is having convulsions.
Symptoms:	See Section 11.
Notes to physician:	Ocular exposure to corrosive fluoride compounds has been treated with isotonic sodium chloride or magnesium chloride. Dermal exposure to corrosive fluoride compounds has been treated with calcium gluconate or calcium carbonate gel applied topically to the affected areas to relieve pain at the site of exposure. Treatment of hypocalcemia associated with corrosive fluoride compounds exposure may be corrected by intravenous calcium gluconate or calcium chloride. Treatment of hypomagnesemia may be corrected by intravenous magnesium sulfate.

5. FIRE FIGHTING MEASURES

Extinguishing media:	Use media appropriate for surrounding material.

Special firefighting procedures: Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

Unusual fire or explosion hazards: This product is an aqueous mixture which will not burn.

Hazardous combustion products: Irritating and toxic gases or fumes may be released during a fire. Flammable and explosive hydrogen gas may be formed when hydrofluoric acid reacts with certain metals. Hydrogen fluoride gas may evolve when chemical is subjected to prolonged high temperature.

6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Wear suitable protective clothing, gloves and eye/face protection. Block any potential routes to water systems.

Clean-up methods: Absorb spill with inert material. Shovel material into appropriate container for disposal.

7. HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin and clothing. Avoid breathing mists or aerosols of this product. Wash thoroughly after handling. Do not take internally. For industrial use only.

Storage: For safe storage, store at or above 0 °C (32°F)
Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials.

For information on product shelf life, please review labels on container or check the Technical Data Sheet.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Hydrogen fluoride	2 ppm Ceiling (as F) 0.5 ppm TWA (as F) (SKIN) (as F)	2.5 mg/m3 PEL (as F) 3 ppm TWA	None	None

Engineering controls: Provide local and general exhaust ventilation to effectively remove and prevent buildup of any vapors or mists generated from the handling of this product.

Respiratory protection: If ventilation is not sufficient to effectively prevent buildup of aerosols, mists or vapors, appropriate NIOSH/MSHA respiratory protection must be provided.

Eye/face protection: Wear chemical goggles; face shield (if splashing is possible).

Skin protection: Chemical resistant, impermeable gloves. Recommended gloves include butyl rubber and neoprene. Use of impervious apron and boots are recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid
Color: Pink, Dark
Odor: Acrid
Odor threshold: Not available.
pH: < 1

Vapor pressure:	Not determined
Boiling point/range:	> 100 °C (> 212°F)calculated
Melting point/ range:	Not determined
Specific gravity:	1.01 - 1.03
Vapor density:	Not determined
Flash point:	Not applicable
Flashback:	Not applicable
Flame projection:	Not applicable
Flammable/Explosive limits - lower:	Not determined
Flammable/Explosive limits - upper:	Not determined
Autoignition temperature:	Not determined
Flammability:	Not applicable
Evaporation rate:	Not available.
Solubility in water:	Complete Aqueous solution
Partition coefficient (n-octanol/water):	Not determined
VOC content:	Not determined
Viscosity:	Not available.
Decomposition temperature:	Not available.

10. STABILITY AND REACTIVITY

Stability:	Stable at normal conditions.
Hazardous reactions:	None under normal processing.
Hazardous decomposition products:	May liberate hydrogen fluoride.
Incompatible materials:	Alkalis.
Reactivity:	This product may react with strong alkalies. This material will react with glass, concrete, certain metals, silica containing materials, rubber, leather, and many organics.
Conditions to avoid:	Store away from incompatible materials.

11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure: Skin, Inhalation, Eyes

Potential Health Effects/Symptoms

Inhalation: Mists, vapors or liquid may cause severe irritation or burns.

Skin contact: This product is severely irritating to the skin and may cause burns. Following skin exposure to this product, the sensation of irritation or pain may be delayed. Hydrofluoric acid will penetrate the skin and attack underlying tissue and bone. Large burns (over 25 square inches) may also cause hypocalcemia and other systemic effects which may be fatal.

Eye contact: This product is severely irritating to the eyes and may cause irreversible damage including burns and blindness.

Ingestion: This product may produce corrosive damage to the gastrointestinal tract if it is swallowed. Ingestion of small amounts of this product may result in potentially fatal hypocalcemia and systemic toxicity. Ingestion of large amounts of this product may result in fluoride poisoning including symptoms of calcification of the ligaments and severe bone changes making normal movements painful, mottling of the teeth, pulmonary fibrosis, anemia, anorexia, dental effects, and possibly death.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Hydrogen fluoride	None	Allergen, Blood, Bone Marrow, Cardiac, Central nervous system, Corrosive, Irritant, Kidney, Liver, Lung, Muscle, Nervous System, Respiratory, Teeth

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Hydrogen fluoride	No	No	No

12. ECOLOGICAL INFORMATION

Ecological information: No data available.

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Dispose of according to Federal, State and local governmental regulations.

Hazardous waste number: This product, if discarded directly, would be a characteristic RCRA corrosive waste (D002). This product contains a component or components identified as hazardous under 40 CFR 261.24. U134: Hydrogen fluoride

14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

U.S. Department of Transportation Ground (49 CFR)

Proper shipping name: Hydrofluoric acid
Hazard class or division: 8 (6.1)
Identification number: UN 1790
Packing group: II
DOT Hazardous Substance(s): Hydrofluoric acid

International Air Transportation (ICAO/IATA)

Proper shipping name: Hydrofluoric acid
Hazard class or division: 8 (6.1)
Identification number: UN 1790
Packing group: II

Water Transportation (IMO/IMDG)

Proper shipping name:	HYDROFLUORIC ACID
Hazard class or division:	8 (6.1)
Identification number:	UN 1790
Packing group:	II

15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status:	All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.
TSCA 12 (b) Export Notification:	None above reporting de minimis
CERCLA/SARA Section 302 EHS:	Hydrogen fluoride (CAS# 7664-39-3).
CERCLA/SARA Section 311/312:	Immediate Health, Delayed Health
CERCLA/SARA Section 313:	This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372). Hydrogen fluoride (CAS# 7664-39-3).
California Proposition 65:	No California Proposition 65 listed chemicals are known to be present.

Canada Regulatory Information

CEPA DSL/NDSL Status:	All components are listed on or are exempt from listing on the Canadian Domestic Substances List.

16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: New Safety Data Sheet format. 16

Prepared by: Mark Mau, Manager, Regulatory Affairs

Issue date: 03/31/2017

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Revision Number: 001.2

Issue date: 09/09/2014

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: **BONDERITE S-WT 443 WATERE TREATMENT known as BASE 443**

IDH number: 760715

Product type: Acidic Cleaner for Industrial Application

Restriction of Use: None identified

Region: United States

Company address:
Henkel Corporation
32100 Stephenson Highway
Madison Heights, MI 48071

Contact information:
Telephone: 248.583.9300
MEDICAL EMERGENCY Phone: Poison Control Center
1-877-671-4608 (toll free) or 1-303-592-1711
TRANSPORT EMERGENCY Phone: CHEMTREC
1-800-424-9300 (toll free) or 1-703-527-3887
Internet: www.henkelna.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW	
DANGER:	CAUSES SEVERE SKIN BURNS AND EYE DAMAGE. MAY CAUSE CANCER. CAUSES DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE.

HAZARD CLASS	HAZARD CATEGORY
SKIN CORROSION	1B
SERIOUS EYE DAMAGE	1
CARCINOGENICITY	1A
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE	1

PICTOGRAM(S)

Precautionary Statements

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe vapors, mist, or spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves, eye protection, and face protection. Use personal protective equipment as required.

Response: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical attention. Immediately call a poison control center or physician. Wash contaminated clothing before reuse.

Storage: Store locked up.

Disposal: Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Percentage*
Sulfuric acid	7664-93-9	30 - 60

* Exact percentage is a trade secret. Concentration range is provided to assist users in providing appropriate protections.

4. FIRST AID MEASURES

Inhalation: If mist or vapor of this product is inhaled, remove person immediately to fresh air. Seek medical attention if symptoms develop or persist.

Skin contact: Remove contaminated clothing and footwear. For skin contact, flush with large amounts of water. Seek immediate medical attention.

Eye contact: In case of contact with the eyes, rinse immediately with plenty of water for 15 minutes, and seek immediate medical attention.

Ingestion: DO NOT induce vomiting unless directed to do so by medical personnel. Give one to two glasses of water or milk. Never give anything by mouth to a victim who is unconscious or is having convulsions.

Symptoms: See Section 11.

Notes to physician: Treat symptomatically and supportively.

5. FIRE FIGHTING MEASURES

Extinguishing media: Use media appropriate for surrounding material. In case of fire, keep containers cool with water spray. Avoid direct contact of this product with water since this can cause a violent exothermic reaction.

Special firefighting procedures: Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

Unusual fire or explosion hazards: This product is an aqueous mixture which will not burn.

Hazardous combustion products: Irritating and toxic gases or fumes may be released during a fire. Oxides of sulfur.

6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Wear appropriate personal protective equipment. Do not allow product to enter sewer or waterways.

Clean-up methods: Absorb spill with inert material. Shovel material into appropriate container for disposal. Dispose of according to Federal, State and local governmental regulations. Eliminate all sources of ignition or flammables that may come into contact with a spill of this material.

7. HANDLING AND STORAGE

Handling: Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Do not take internally. For industrial use only.

Storage: For safe storage, store at or above 40 °F (4.4 °C)
Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials. Thaw and mix thoroughly if frozen.

For information on product shelf life, please review labels on container or check the Technical Data Sheet.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Sulfuric acid	0.2 mg/m3 TWA Thoracic fraction.	1 mg/m3 PEL	None	None

Engineering controls: Provide local and general exhaust ventilation to effectively remove and prevent buildup of any vapors or mists generated from the handling of this product.

Respiratory protection: If ventilation is not sufficient to effectively prevent buildup of aerosols, mists or vapors, appropriate NIOSH/MSHA respiratory protection must be provided.

Eye/face protection: Wear chemical goggles; face shield (if splashing is possible).

Skin protection: Chemical resistant, impermeable gloves. Gloves should be tested to determine suitability for prolonged contact. Use of impervious apron and boots are recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid
Color: Colorless
Odor: Odorless
Odor threshold: Not available.
pH: < 1
Vapor pressure: Not determined
Boiling point/range: > 100 °C (> 212°F) calculated
Melting point/ range: Not determined
Vapor density: Not determined
Flash point: Not applicable
Flammable/Explosive limits - lower: Not available.
Flammable/Explosive limits - upper: Not available.
Autoignition temperature: Not applicable
Evaporation rate: Not available.
Solubility in water: Complete
Partition coefficient (n-octanol/water): Not determined
VOC content: Not applicable
Viscosity: Not available.
Decomposition temperature: Not available.

10. STABILITY AND REACTIVITY

Stability: Stable at normal conditions.

Hazardous reactions: Will not occur.

Hazardous decomposition products: Oxides of sulfur.

Incompatible materials: Keep away from organic materials, combustible materials, alkalis and metals. Adding water to this product may cause localized overheating and splattering.

Reactivity: Not available.

Conditions to avoid: None identified.

11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure: Skin, Inhalation, Eyes

Potential Health Effects/Symptoms

Inhalation: Mists, vapors or liquid may cause severe irritation or burns.

Skin contact: Corrosive to the skin. Contact with the skin or mucous membranes may cause severe irritation and burns.

Eye contact: This product is severely irritating to the eyes and may cause irreversible damage including burns and blindness.

Ingestion: This product may produce corrosive damage to the gastrointestinal tract if it is swallowed.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Sulfuric acid	Inhalation LC50 (RAT, 1 h) = 347 mg/l	Carcinogen, Corrosive, Irritant, Lung

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Sulfuric acid	Known To Be Human Carcinogen.	Group 1	No

12. ECOLOGICAL INFORMATION

Ecological information: Because of the low pH of this product, it would be expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems.

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Follow all local, state, federal and provincial regulations for disposal.

Hazardous waste number: This product, if discarded directly, would be a characteristic RCRA corrosive waste (D002).

14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

U.S. Department of Transportation Ground (49 CFR)

Proper shipping name: Sulfuric acid
Hazard class or division: 8
Identification number: UN 2796
Packing group: II
DOT Hazardous Substance(s): Sulfuric acid

International Air Transportation (ICAO/IATA)

Proper shipping name: Sulphuric acid
Hazard class or division: 8
Identification number: UN 2796
Packing group: II

Water Transportation (IMO/IMDG)

Proper shipping name: SULPHURIC ACID
Hazard class or division: 8
Identification number: UN 2796
Packing group: II

15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status: All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.
TSCA 12 (b) Export Notification: None above reporting de minimis

CERCLA/SARA Section 302 EHS: Sulfuric acid (CAS# 7664-93-9).
CERCLA/SARA Section 311/312: Immediate Health, Delayed Health, Reactive
CERCLA/SARA Section 313: This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372). Sulfuric acid (CAS# 7664-93-9).
CERCLA Reportable quantity: Sulfuric acid (CAS# 7664-93-9) 1,000 lbs. (454 kg)

California Proposition 65: This product contains a chemical known in the State of California to cause cancer.

Canada Regulatory Information

CEPA DSL/NDSL Status: All components are listed on or are exempt from listing on the Canadian Domestic Substances List.

16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: New Material Safety Data Sheet format.

Prepared by: Jennifer Mckay, Regulatory Affairs Specialist

Issue date: 09/09/2014

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Facility Name: Curt Group Report Year: 2022 City: Eau Claire State: WI

Chemical Name: Hydrogen Fluoride CAS Number: 7664-39-3

Scenario Name: Curt Group - Hydrogen Fluoride - Worst Case

Scenario Description

Amount Released	414.9	pounds
Concentration	100	% by weight
Release Duration	10	minutes
Physical State	(•) Gas ( ) Liquid ( ) Solid	
Surface area within dike		sq ft (enter a value only if stored in a container with a dike)
Atmospheric Concentration Level of Concern	0.0016	gm/m^3

Matches the EPA Green Book LOC value for this chemical.

Weather Information

Wind Speed	3.35	mph
Wind From		degrees clockwise from 0 N (for example 45 means wind from NE)
Ground Roughness	Open Country	
Stability Class	F	

Risk Assessment

Risk		Probability of described accident occurring
Consequences		Severity of consequences to people
Overall Risk		Combination of probability and severity of consequences

Estimate Threat Zone Radius Threat Zone Radius > 10 miles Show on Map

Facility Name: Curt Group Report Year: 2022 City: Eau Claire State: WI

Chemical Name: Hydrogen Fluoride CAS Number: 7664-39-3

Scenario Name: Curt Group - Hydrogen Fluoride - Reevaluation

Scenario Description

Amount Released	414.9	pounds
Concentration	100	% by weight
Release Duration	10	minutes
Physical State	(●) Gas ( ) Liquid ( ) Solid	
Surface area within dike		sq ft (enter a value only if stored in a container with a dike)
Atmospheric Concentration Level of Concern	0.0016	gm/m^3

Matches the EPA Green Book LOC value for this chemical.

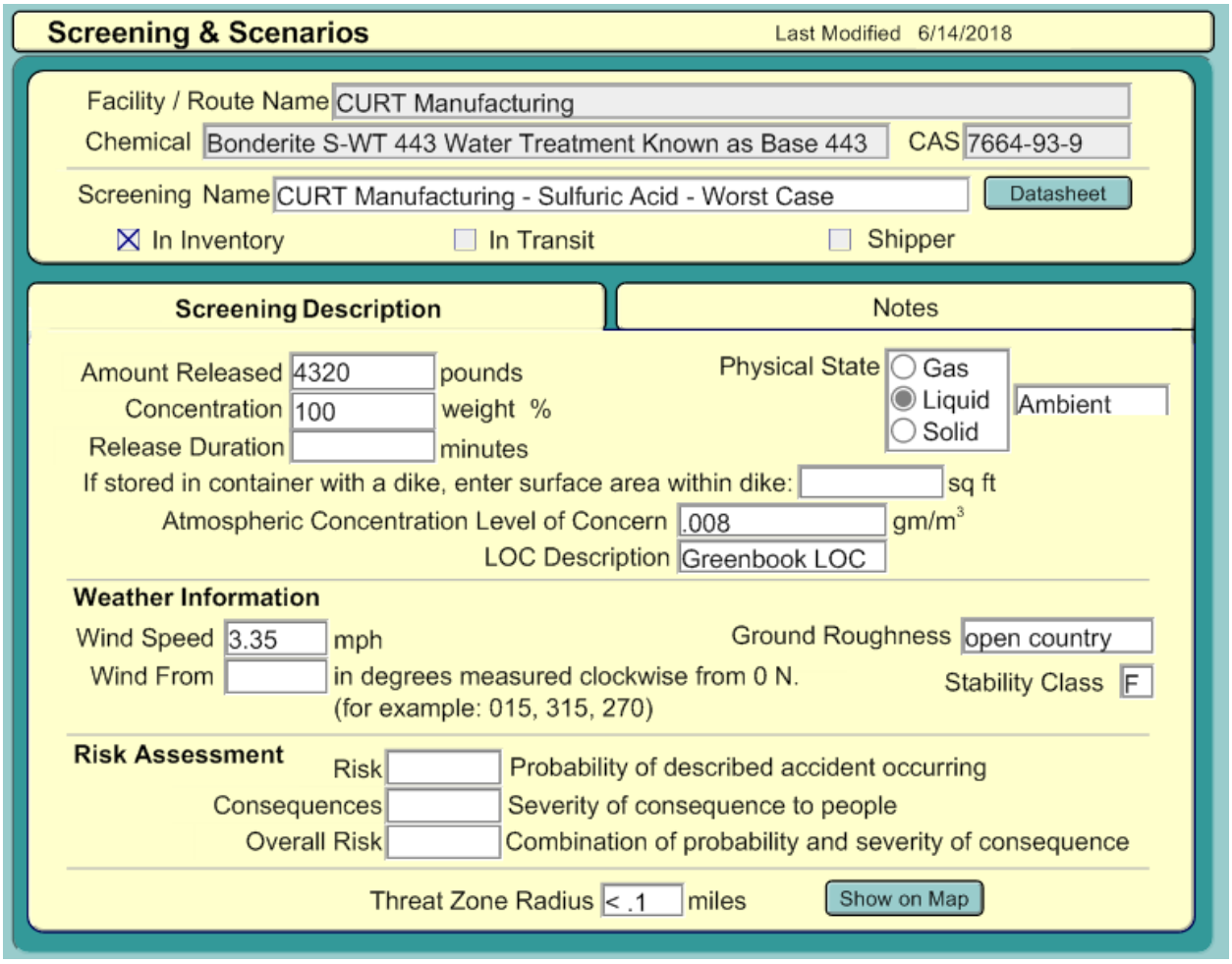
Weather Information

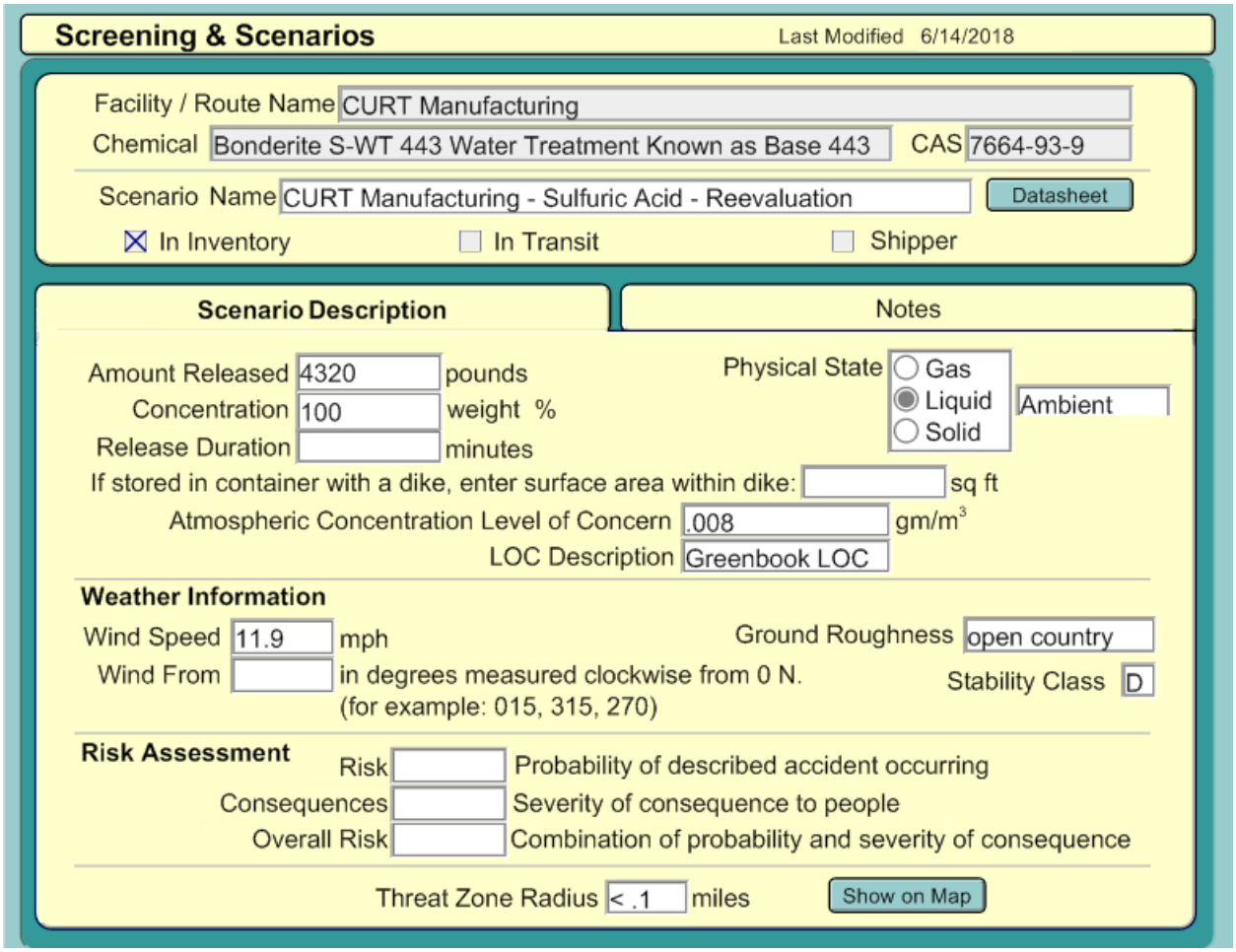
Wind Speed	11.9	mph
Wind From		degrees clockwise from 0 N (for example 45 means wind from NE)
Ground Roughness	Open Country	
Stability Class	D	

Risk Assessment

Risk		Probability of described accident occurring
Consequences		Severity of consequences to people
Overall Risk		Combination of probability and severity of consequences

Estimate Threat Zone Radius Threat Zone Radius 1.5 miles Show on Map


Screening & Scenarios
Last Modified 6/14/2018
Facility / Route Name CURT Manufacturing
Chemical Bonderite S-WT 443 Water Treatment Known as Base 443
CAS 7664-93-9
Screening Name CURT Manufacturing - Sulfuric Acid - Worst Case
Datasheet
In Inventory
In Transit
Shipper
Screening Description
Notes
Amount Released 4320 pounds
Concentration 100 weight %
Release Duration minutes
Physical State Gas Liquid Solid
Ambient
If stored in container with a dike, enter surface area within dike: sq ft
Atmospheric Concentration Level of Concern .008 gm/m3
LOC Description Greenbook LOC
Weather Information
Wind Speed 3.35 mph
Wind From in degrees measured clockwise from 0 N.
(for example: 015, 315, 270)
Ground Roughness open country
Stability Class F
Risk Assessment
Risk Probability of described accident occurring
Consequences Severity of consequence to people
Overall Risk Combination of probability and severity of consequence
Threat Zone Radius < .1 miles
Show on Map


Screening & Scenarios
Last Modified 6/14/2018
Facility / Route Name CURT Manufacturing
Chemical Bonderite S-WT 443 Water Treatment Known as Base 443
CAS 7664-93-9
Scenario Name CURT Manufacturing - Sulfuric Acid - Reevaluation
Datasheet
In Inventory
In Transit
Shipper
Scenario Description
Notes
Amount Released 4320 pounds
Concentration 100 weight %
Release Duration minutes
Physical State Gas Liquid Solid
Ambient
If stored in container with a dike, enter surface area within dike: sq ft
Atmospheric Concentration Level of Concern .008 gm/m3
LOC Description Greenbook LOC
Weather Information
Wind Speed 11.9 mph
Wind From in degrees measured clockwise from 0 N.
(for example: 015, 315, 270)
Ground Roughness open country
Stability Class D
Risk Assessment
Risk Probability of described accident occurring
Consequences Severity of consequence to people
Overall Risk Combination of probability and severity of consequence
Threat Zone Radius < .1 miles
Show on Map