<u>AGENDA</u>

Eau Claire County • LOCAL EMERGENCY PLANNING COMMITTEE •

Date: Thursday, September 16, 2021

Time: 4:00 p.m.

In-Person OR Remote Access

In-Person

Township Fire Station 1, 1607 S 50th Avenue, Eau Claire, Wisconsin 54703

Remote Access

*Event link below can be used to connect to meeting and interact (by the chair) from computer or through the WebEx Meeting smartphone app.

Join WebEx Meeting: https://eauclairecounty.webex.com Meeting ID: 145 919 2856 Password: mK94cbAGGs4

*Meeting audio can be listened to using this Audio conference dial in information.

Audio conference: 1-415-655-0001 Access Code: 1459192856##

For those wishing to make public comment, you must e-mail Sam Simmons at

<u>Samuel.Simmons@co.eau-claire.wi.us</u> at least 30 minutes prior to the start of the meeting. You will be called

on during the public comment period to make your comments.

*Please mute personal devices upon entry

- 1. Call to Order and confirmation of meeting notice
- 2. Roll Call
- 3. Public Comment (15 minute maximum)
- 4. Review Approval of the May 13, 2021 Minutes / Discussion Action PAGES 2 4
- 5. Review Approval of Off-Site Response Plans / Discussion Action
 - a. Central Storage & Warehouse PAGES 5 30
 - b. Indianhead Foodservice PAGES 31 65
 - c. Xcel Energy PAGES 66 86
 - d. Schuman Cheese PAGES 87 -116
 - e. Menard, Inc. PAGES 117 136
- 6. Emergency Management Updates / Discussion
- 7. Local Hazardous Materials Spill Response Team Report / Discussion
- 8. Proposed Business items for Next Meeting / Discussion
- 9. Adjourn

Prepared by: Samuel Simmons, Program Assistant, Eau Claire County Emergency Management

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 ADA Coordinator at 715-839–6945 (FAX) 715-839–1669 or (TDD) 715-839–4735 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 •

Date: Thursday, May 13, 2021

Time: 4:00 p.m.

In-Person OR Remote Access

In-Person (COVID-19 safety protocols will be in place)

Washington Town Hall 5750 Old Town Hall Road

Eau Claire, Wisconsin 54701

Remote Access

*Event link below can be used to connect to meeting and interact (by the chair) from computer or through the WebEx Meeting smartphone app.

Join WebEx Meeting: https://eauclairecounty.webex.com Meeting ID: 145 435 7828 Password: zpFXJtKD474

*Meeting audio can be listened to using this Audio conference dial in information.

Audio conference: 1-415-655-0001 Access Code: 1454357828##

For those wishing to make public comment, you must e-mail Sam Simmons at

Samuel.Simmons@co.eau-claire.wi.us at least 30 minutes prior to the start of the meeting. You will be called

on during the public comment period to make your comments.

*Please mute personal devices upon entry

Members Present: Robin Leary, Darrell Christy, Jason Knecht, Jack Running, Jamie Burkhardt, Marisa Stanley, Robert King, Frank Neibauer, Diane Hunter, Thomas Lochner, James Hager Members Absent: Ray Henning, Benjamin Frederick, Don Henning, Steve Vargo Staff Present: Tyler Esh, Sam Simmons

1. Call to Order and confirmation of meeting notice

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

2. Public Comment (15 minute maximum)

None.

3. Review – Approval of the February 11, 2021 Minutes / Discussion – Action

The Committee reviewed the February 11, 2021 Minutes.

ACTION: Motion by Jack Running to approve the February 11, 2021 Minutes as presented. Jason Knecht seconded. Motion carried by unanimous consent.

- 4. Review/Approval of Off-Site Response Plans / Discussion Action
 - a. AT&T PK0116 Tabled from 02/11/2021

The Committee reviewed the AT&T PK0116 Off-Site Response Plan. Sam Simmons, Emergency Management Program Assistant, informed the Committee that concerns raised about the plan at the previous meeting have been addressed. **ACTION:** Motion by Jim Hager to approve the AT&T PK0116 Off-Site Response Plan as presented. Seconded by Robin Leary. Motion carried by unanimous consent.

b. AT&T PK0106 – Tabled from 02/11/2021

The Committee reviewed the AT&T PK0106 Off-Site Response Plan. Mr. Simmons again noted the concerns raised about this plan at the previous meeting have been addressed. Robert King raised a concern about the facility layout provided in the plan and its readability. Others on the Committee noted that is unlikely that a better layout can be provided, and that Eau Claire Fire is familiar with the facility in case of an incident. **ACTION:** Motion by Jack Running to approve the AT&T PK0106 Off-Site Response Plan as presented. Jason Knecht seconded. Motion carried by unanimous consent.

c. Cleghorn Micro-PK9608

Mr. Simmons informed the Committee that the Cleghorn Micro-PK9608 plan is simply a letter stating that the facility no longer has chemicals over the amount to deem it as a planning facility. The Committee is required to approve the letter acknowledging that it is no longer a planning facility for EPCRA purposes. **ACTION:** Motion by Jack Running to approve the Cleghorn Micro-PK9608 Off-Site Response Plan as presented. Seconded by Frank Neibauer. Motion carried by unanimous consent.

d. Great Lakes Coca-Cola

The Committee reviewed the Great Lakes Coca-Cola Off-Site Response Plan. Mr. Simmons informed the Committee that there were no changes to the plan since it was last brought before the LEPC. **ACTION:** Motion by Robert King to approve the Great Lakes Coca-Cola Off-Site Response Plan as presented. Seconded by Jim Hager. Motion carried by unanimous consent.

e. Hutchinson Technology, Inc.

The Committee reviewed the Hutchinson Technology, Inc. Off-Site Response Plan. Mr. Simmons noted that the changes to the plan were adding some new hazardous substances, removing Copper Sulfate has an Extremely Hazardous Substance, and minor amendments to the narrative. Thomas Lochner, Facility Coordinator for Hutchinson Technology, Inc., stated that the facility is still maintaining 24/7 operations and conducting proper trainings. Chairman Christy asked how many employees asked how many employees are employed at the facility. Mr. Lochner stated around 390. **ACTION:** Motion by Tom Lochner to approve the Hutchinson Technology, Inc. Off-Site Response Plan as presented. Seconded by Robert King. Motion carried by unanimous consent.

5. Emergency Management Overview and Updates / Discussion

Tyler Esh, Emergency Management Coordinator for Eau Claire County, provided the Committee with an overview of the Emergency Management program. The presentation included an overview on grants, response and planning efforts, and future opportunities for the program. Robin Leary asked if Emergency Management is involved with Farm Tech Days. Mr. Esh confirmed that he is working with Township Fire and law enforcement. There was also discussion on possibly using EPCRA grant dollars for outreach materials.

6. Local Hazardous Materials Spill Response Team Report / Discussion

Jamie Burkhardt, of Eau Claire Fire & Rescue, provided the Committee with the Local Hazardous Materials Spill Report since February. There have been 38 reported incidents. 17 of those incidents were CO related and 10 were flammable liquids. These numbers are about average for this time of year.

7. LEPC Appointments/Reappointments / Discussion

Mr. Esh informed the Committee that several reappointments to the Committee took place in April. There is one vacancy, media, on the Committee.

8. Proposed Business items for Next Meeting / Discussion

Mr. Esh noted that the State of Wisconsin requires the LEPC to conduct one facility tour per grant cycle. It was decided that the next LEPC meeting will be held in August at either the Schuman Cheese facility in Fall Creek or Hutchinson Technology in Eau Claire to observe an annual exercise.

9. Adjourn

ACTION: Motion by Jack Running to adjourn the meeting. Jim Hager seconded. Motion carried by unanimous consent. Meeting adjourned at 4:46 p.m.

Respectfully Submitted,

Samuel Simmons Clerk, Local Emergency Planning Committee

COUNTY: Eau Claire	
NEW UPDATE FINAL UPDATE	
Facility ID No. : 198620	
Facility Name: Central Storage & Warehouse Co.	
Facility Address: 2650 Fortune Drive, 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.

Perrin Sanderson

Facility Coordinator

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

County Emergency Management Director

WEM / SERC ACCEPTANCE:

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

WEM Regional Director

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

WISCONSIN EMERGENCY MANAGEMENT PO BOX 7865 MADISON WI 53707-7865

§323.60 WI Stats **POW FFY 2021** Page 1 of 3

Date

07/26/2021

Date

Date

Date

MADISON WI 53707-7865

COUNTY: Eau Claire
Facility ID No. : 198620
Facility Name: Central Storage & Warehouse Co.
Facility Address: 2650 Fortune Drive, Eau Claire, Wisconsin 54703

FACILITY OFF-SITE PLAN REVIEW GUIDE

EPCF	RA 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	5
5)	Support and resources available from facility	5
6)	General Information / Assumptions (Disclaimer)	7
7)	Hazard analysis summary	5 - 6
8)	Special facilities affected	8 - 9
9)	Population protection	7
10)	Special considerations	7
11)	Site Plan / Facility Layout	Appendix 1 (12)
WISCO PO BO)	NSIN EMERGENCY MANAGEMENT (7865	§323.60 WI Stats POW FFY 2021

POW FFY 2021 Page 2 of 3

COUN	ΓΥ: Eau Claire
NEW	UPDATE 🖌 FINAL UPDATE
Facility	ID No. : 198620
Facility	Name: Central Storage & Warehouse Co.
Facility	Address: 2650 Fortune Drive, 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 <u>10 - 11</u>

B. Safety Data Sheet (SDS) for each EHS

C. Vulnerability Zone Calculations

D. Transportation route(s) map

Appendix 2 (19 - 32)

Appendix 3 (33 - 36)

WISCONSIN EMERGENCY MANAGEMENT PO BOX 7865 MADISON WI 53707-7865 §323.60 WI Stats POW FFY 2021 Page 3 of 3



Central Storage & Warehouse Co. Facility Off-Site Emergency Response Plan





Facility #198620 Central Storage & Warehouse Co. 2650 Fortune Drive Eau Claire, Wisconsin 54703 Eau Claire County Emergency Management 721 Oxford Avenue, Suite 3344 Eau Claire, Wisconsin 54703

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Hazardous Substances	5
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APPENDICES

Plant Layout	Appendix 1
Extremely Hazardous Substances MSDS	
CAMEO Calculations	Appendix 3

RECORD OF CHANGES

Change	Date Changed	Change Made By
Updated	July 25, 2016	JA
Special facilities updated	July 19, 2017	JA
Updated	July 26, 2021	SS

SECTION 1: FACILITY INFORMATION

A. Address

Central Storage & Warehouse Co. 2650 Fortune Drive Eau Claire, Wisconsin 54703 resource

B. Facility ID

198620

C. Map



D. Emergency Contacts

Primary: Perrin Sanderson Phone: 608-221-7600 24 Hour: 608-358-6209 psanderson@csw-wi.com <u>Secondary:</u> Jack Williams Phone: 608-235-4539 24 Hour: 608-235-4539 jackw@csw-wi.com

E. Extremely Hazardous Substances

Anhydrous Ammonia	Inventory:	Storage:
Chemical ID: 395173 CAS: 7664417	Max Daily Amount (lbs): 7400 Ave. Daily Amount (lbs): 7400	Container: Above ground tank Location: Receiver and accumulator
ERG: Guide 125	Number of days on site: 365	located in Engine room, Westernmost portion of building

Inventory:	Storage:
Max Daily Amount (lbs): 1730	Container: Batteries
Ave. Daily Amount (lbs): 1730	Location: Forklift batteries in
Number of days on site: 365	forklifts and in battery charging area
	Max Daily Amount (lbs): 1730 Ave. Daily Amount (lbs): 1730

F. Hazardous Substances

•					
	Lead	Inventory:	Storage:		
	Chemical ID: 395172	Max Daily Amount (lbs): 13985	Container: Batteries		
	CAS: 7439921	Ave. Daily Amount (lbs): 13985	Location: Charging room and		
	ERG: Guide 151	Number of days on site: 365	forklifts		

G. Resources/Support Available

There are detectors located in the Mechanical Room, fire alarm and ventilation systems, and alarm monitoring provided by True Lock.

H. Hazard Analysis

Central Storage & Warehouse provides a cold storage environment for storage of food products. To the east and north are agricultural fields; to the west is undeveloped land. Other industrial facilities are located to the south. The parcel is located near the border of Eau Claire and Chippewa counties. An average of ten (10) employees are on site at all times. The size of the building is 66,000 square feet. The cooling system for the facility uses Anhydrous Ammonia. Sulfuric Acid is used in electrolyte of batteries. The total quantity of sulfuric acid electrolyte is 6,750 lbs. The portion of the solution that is sulfuric acid can range up to 2,026 lbs. In the same screening scenarios as stated for anhydrous ammonia below, the evacuation radius for sulfuric acid is less than 0.1 mile.

The hazard analysis determined this Anhydrous Ammonia to be the major chemical hazard present at the facility. It is used in the cooling system which conditions air for the cold storage. Piping for the Anhydrous Ammonia is located above the roof of the building and inside the building. A diffuser is located on the roof top to disperse any system release of Anhydrous Ammonia. A leak of Anhydrous Ammonia in the main containment area would be detected by equipment that is monitored by True Lock Security (24/7). If a leak were to be detected Tru Lock would alert company personnel so they could take appropriate action. On site, strobes and siren annunciate the detected release of a chemical. There are 7,400 pounds of Anhydrous Ammonia (2,464 lbs.) ten minutes after a catastrophic failure of containment. The largest containment of Anhydrous Ammonia in the cooling system is the receiver. This is the amount of material used in the worst-case scenario.

The greatest potential for release would be the failure of "receiver units" which contain the greatest volume of material. Anhydrous Ammonia is delivered to the facility by truck. The maximum shipment is 2,500 pounds.

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 evacuation radius, as calculated by CAMEO software for a 2,464 pound Anhydrous Ammonia release, was determined to be 6.2 miles. It is estimated that 68,661 people may be affected by the release.

Reevaluation of a 2,464 pound release of Anhydrous Ammonia using more realistic variables in the CAMEO model yields an evacuation radius of seven miles.

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

I. Access to Facility

There are two access points on Fortune Drive. Fortune Drive is accessible from Venture Drive and North Clairemont Avenue.

SECTION 2: OUTSIDE RESOURCES

A. Primary Response Agencies

Fire:	EMS:	Law:	Emergency Management:
City of Eau Claire Fire	City of Eau Claire Fire	City of Eau Claire Police	Eau Claire Emergency
Station	Station	721 Oxford Avenue	Management
		Eau Claire, WI 54703	721 Oxford Avenue
Eau Claire, WI 54703	Eau Claire, WI 54703	Phone: 715-839-4972	Suite 3344
Phone: 715-834-6868	Phone: 715-834-6868		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.

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

None.

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 airborne 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 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 actual response to an incident will be determined by the field incident commander 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.

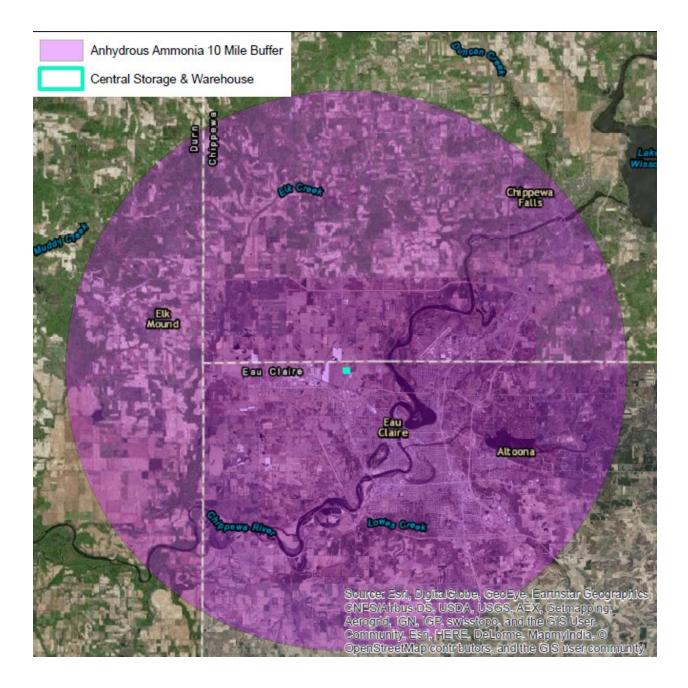
B. Special Facilities Affected

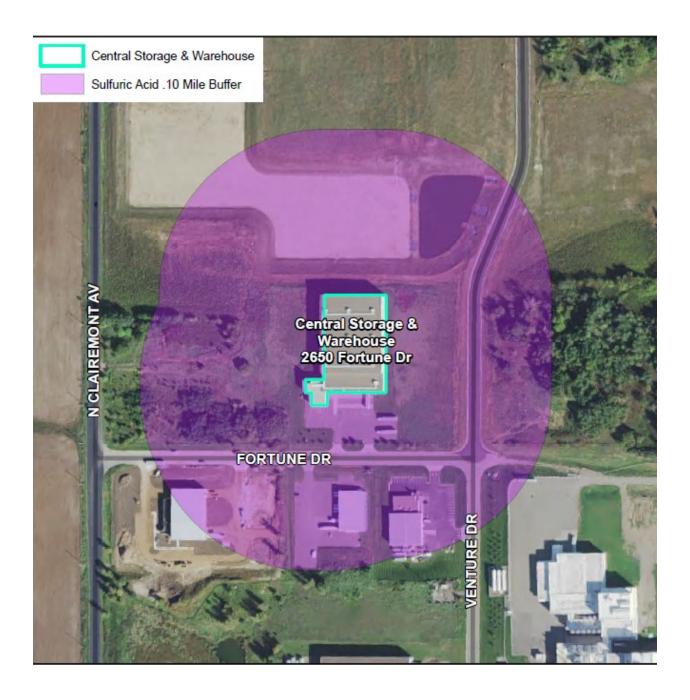
AmericInn Hotel & Suites Eau Claire	Big Brothers Big Sisters	Brighter Beginning Early Learning
6200 Texaco Dr	424 Galloway St	1612 Truax Blvd
Eau Claire, WI 54703	Eau Claire, WI 54703	Eau Claire, WI 54703
715-874-4900	715-835-0161	715-831-9944
Calvary Baptist Church	Care Partners Assisted Living	Children's Secret Garden North
3036 Epiphany Ln	2320 Frank St	2857 Western Ave
Eau Claire, WI 54703	Eau Claire, WI 54703	Eau Claire, WI 54703
715-832-6363	715-835-6656	715-835-7021
Chippewa Valley Montessori	Chippewa Valley Museum	Chippewa Valley Regional Airport
Charter School	1204 Half Moon Dr	3800 Starr Ave
400 Cameron St	Eau Claire, WI 54703	Eau Claire, WI 54703
Eau Claire, WI 54703	715-834-7871	715-839-4900
715-852-6950		
Chippewa Valley Technical College-	Chippewa Valley Technical College-	Chippewa Valley Technical College-
Energy Education Center	Manufacturing Education Center	Emergency Service Education
4000 Campus Rd	2320 Alpine Rd	Center
Eau Claire, WI 54703	Eau Claire, WI 54703	3623 Campus Rd
715-855-7502	715-874-4600	Eau Claire, WI 54703
		715-855-7500
Clairemont Motel	Color My World Child Care	Dairyland Power Co-Op
2221 N Clairemont Ave	1903 Western Ave	5052 County Hwy X
Eau Claire, WI 54703	Eau Claire, WI 54703	Eau Claire, WI 54703
715-832-7611	715-835-2060	715-874-5413
Days Inn West-Eau Claire	Delong Middle School	Dove Healthcare- Orchard Hills
6319 Truax Ln	2000 Vine St	Assisted Living
Eau Claire, WI 54703	Eau Claire, WI 54703	1403 Truax Blvd
715-874-5550	715-852-4900	Eau Claire, WI 54703
/15-8/4-5550	/15-852-4500	715-552-1030
Eau Claire Children's Theatre	Eau Claire Express Stadium	Eau Claire Fire Station 8
1814 Oxford Ave	702 Carson Park Dr	3510 Starr Ave
Eau Claire, WI 54703	Eau Claire, WI 54701	Eau Claire, WI 54703
715-839-8877	715-839-7788	715-839-5012
Eau Claire Forestry & Parks	Eau Claire Gospel Center	Eau Claire North High School
1040 Forest St	1505 Cameron St	1801 Piedmont Rd
Eau Claire, WI 54703	Eau Claire, WI 54703	Eau Claire, WI 54703
715-839-5039	715-839-8628	715-852-6600
Eau Claire Transit Business	First Church of the Nazarene	Genesis Child Development Center
910 Forest St	1921 7th St	418 N Dewey St
Eau Claire, WI 54703	Eau Claire, WI 54703	Eau Claire, WI 54703
715-839-5111	715-835-9750	715-830-2275
Good Shepherd Senior Apartments	Hmong Christian Church	Hope Lutheran Church
3304 14th St	2749 70th St	2226 Eddy Ln
Eau Claire, WI 54703	Eau Claire, WI 54703	Eau Claire, WI 54703
715-834-3587	715-874-6644	715-832-1414
International Revenue Service		1
international Nevenue Service	Knights Inn Eau Claire	Lakes Gas Co
2403 Folsom St	Knights Inn Eau Claire 6260 Texaco Dr	2326 Western Ave
	-	
2403 Folsom St	6260 Texaco Dr	2326 Western Ave
2403 Folsom St Eau Claire, WI 54703	6260 Texaco Dr Eau Claire, WI 54703	2326 Western Ave Eau Claire, WI 54703
2403 Folsom St Eau Claire, WI 54703 715-836-8750	6260 Texaco Dr Eau Claire, WI 54703 715-874-6868	2326 Western Ave Eau Claire, WI 54703 888-289-8185
2403 Folsom St Eau Claire, WI 54703 715-836-8750 Lakeshore Elementary School	6260 Texaco Dr Eau Claire, WI 54703 715-874-6868 LE Phillips Senior Center	2326 Western Ave Eau Claire, WI 54703 888-289-8185 Learning Center
2403 Folsom St Eau Claire, WI 54703 715-836-8750 Lakeshore Elementary School 711 Lake St	6260 Texaco Dr Eau Claire, WI 54703 715-874-6868 LE Phillips Senior Center 1616 Bellinger St	2326 Western Ave Eau Claire, WI 54703 888-289-8185 Learning Center 1721 Westgate Rd
2403 Folsom St Eau Claire, WI 54703 715-836-8750 Lakeshore Elementary School 711 Lake St Eau Claire, WI 54703 715-852-3400	6260 Texaco Dr Eau Claire, WI 54703 715-874-6868 LE Phillips Senior Center 1616 Bellinger St Eau Claire, WI 54703 715-839-4909	2326 Western Ave Eau Claire, WI 54703 888-289-8185 Learning Center 1721 Westgate Rd Eau Claire, WI 54703 715-598-1819
2403 Folsom St Eau Claire, WI 54703 715-836-8750 Lakeshore Elementary School 711 Lake St Eau Claire, WI 54703 715-852-3400 Luther Midelfort Hospital	6260 Texaco Dr Eau Claire, WI 54703 715-874-6868 LE Phillips Senior Center 1616 Bellinger St Eau Claire, WI 54703	2326 Western Ave Eau Claire, WI 54703 888-289-8185 Learning Center 1721 Westgate Rd Eau Claire, WI 54703 715-598-1819 Mayo Clinic Health System
2403 Folsom St Eau Claire, WI 54703 715-836-8750 Lakeshore Elementary School 711 Lake St Eau Claire, WI 54703 715-852-3400	6260 Texaco Dr Eau Claire, WI 54703 715-874-6868 LE Phillips Senior Center 1616 Bellinger St Eau Claire, WI 54703 715-839-4909 Lutheran Church-Good Shepherd	2326 Western Ave Eau Claire, WI 54703 888-289-8185 Learning Center 1721 Westgate Rd Eau Claire, WI 54703 715-598-1819

Milestone Senior Living Assist	North Central Utility of Wisconsin	Paul Bunyan Logging Camp
5512 Renee Dr	LLC	Museum
Eau Claire, WI 54703	7427 Margaret Lane	1110 E Half Moon Dr
715-210-0178	Eau Claire, WI 54701	Eau Claire, WI 54703
	855-259-9595	715-835-6200
Plymouth United Church of Christ	Rachel's Place Early Learning	REACH
2010 Moholt Dr	Center	2205 Heimstead Rd
Eau Claire, WI 54703	2226 Eddy Lane	Eau Claire, WI 54703
715-835-5475	Eau Claire, WI 54703	715-552-2763
	715-832-1414 ext. 2200	
River Country Co-op	Roosevelt Elementary School	Sacred Heart St. Patrick Parish
2802 3rd St	3010 8th St	322 Fulton Street
Eau Claire, WI 54703	Eau Claire, WI 54703	Eau Claire, WI 54703
715-835-2003	715-852-4700	715-832-0925
Sam Davey Elementary School	Seminars	Sherman Elementary School
3000 Starr Ave	5130 Old Mill Plaza	3110 W Vine St
Eau Claire, WI 54703	Eau Claire, WI 54703	Eau Claire, WI 54703
715-852-3200		715-852-4800
Sleep Inn & Suites Conference	St Francis Food Pantry	St James The Greater Catholic
Center	1221 Truax Blvd	Church
5872 33rd Ave	Eau Claire, WI 54703	2502 11th St
Eau Claire, WI 54703	715-839-7706	Eau Claire, WI 54703
715-874-2900		715-835-5887
St. Olaf Catholic Church	Trinity Baptist Church	Truax Congregational United
3220 Monroe Street	3431 Fear St	1008 S 50th St
Eau Claire, WI 54703	Eau Claire, WI 54703	Eau Claire, WI 54703
715-832-2504		715-874-5422
Unity Christ Center	US Post Office	WBIZ Sports Radio AM 1400
1808 Folsom St	225 E Madison St	619 Cameron St
Eau Claire, WI 54703	Eau Claire, WI 54703	Eau Claire, WI 54703
715-836-0010	715-830-5300	715-830-4000
West Ridge Church	Westgate Motel	Westwinds Apartment Homes
3906 Kane Rd	1439 Fairmont Ave	2215 Folsom St
Eau Claire, WI 54703	Eau Claire, WI 54703	Eau Claire, WI 54703
715-834-1930	715-834-3580	715-835-7755

C. Vulnerability Zone Map

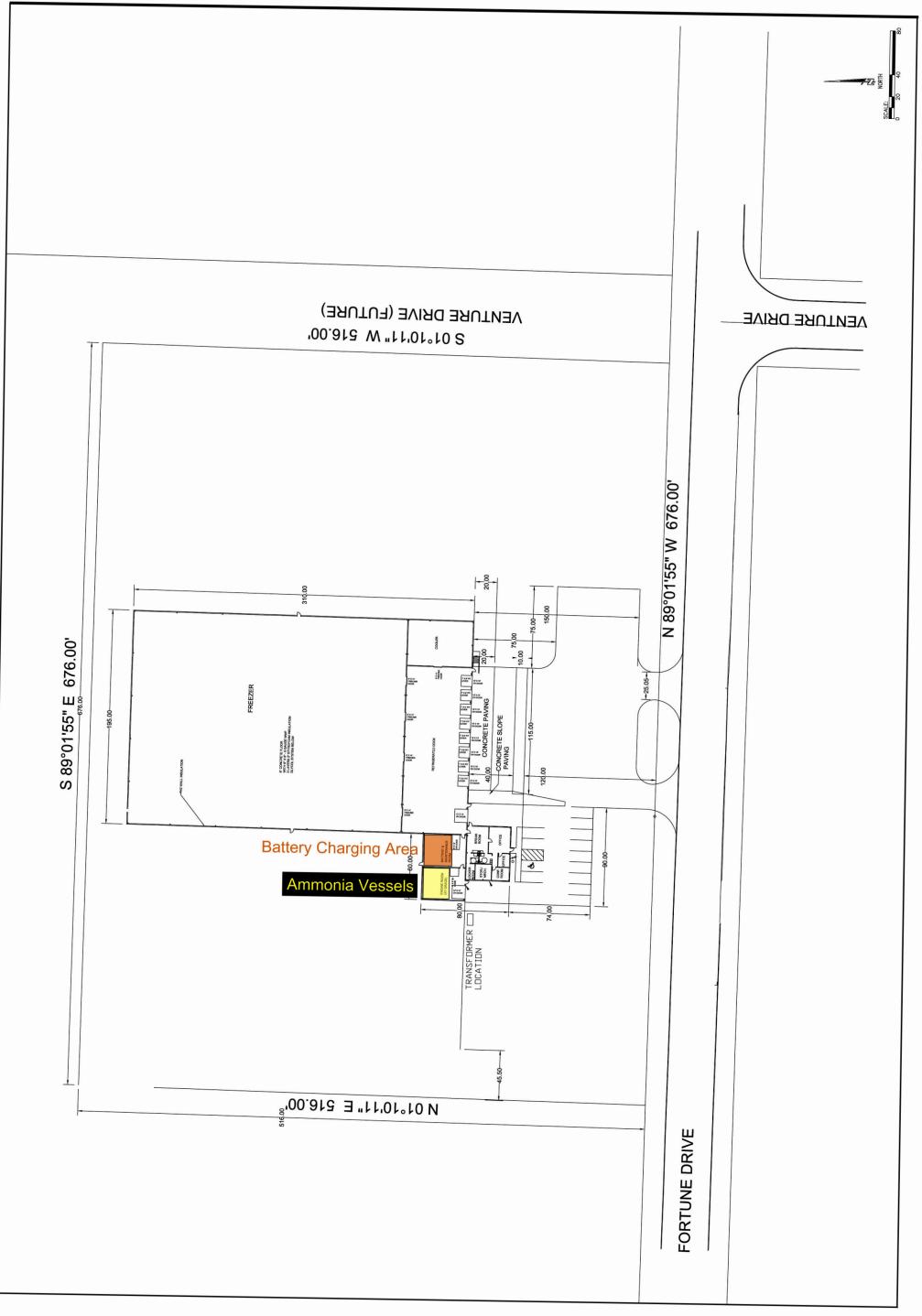
See attached maps





APPENDIX 1: PLANT LAYOUT

Central Storage & Warehouse Co. 2650 Fortune Dr. Eau Claire, WI 54703



APPENDIX 2: EXTREMELY HAZARDOUS SUBSTANCES MSDS



				AIr	Jas.			
Material Safe	ety Data She	et# 4001			Last Revision 06	/20/07	Page 1 of 3	2
			N 1: CHEN	ICAL PRODU	CT & COMPANY I			-
	NAME: Anhy				TRADE NAMES /			
DISTRIBUTO					EMERGENCY TEL			
Airgas Specia					Transportation (CH		1-800-424-9	
	oaf Parkway, 3	300			Transportation, Ca			
Duluth, GA 3	0097 USA				Environmental/Hea			
					Customer Service		1-877-295-2	225
					FORMATION ON			
<u>CHEMICAL</u>	<u>FORMULA</u>	<u>% BY N</u>		CAS	OSHA PEL	NIOSH REL / A	CGIH TLV	<u>IDLH</u>
Ammonia	NH ₃	<u>C-grade</u> 99.5	<u>P-grade</u> 99.995	7664-41-7	25 ppm (Californ 50 ppm (TWA)	25 ppm (TWA)	35 ppm (STEL)	300ppm
Water	H ₂ O	0.4	33 ppm	7732-18-5	None	None	None	ooohhiii
Oil		0.1	2 ppm		None	None	None	
				ON 3: HAZAF	RDS IDENTIFICAT			
		V: 1. Colorle			d with a pungent, su		Liquid ammonia r	eacts
					th liquid and vapor.			
					untered outdoors.			· · · ·
	HEALTH EF			-				
					stion TARGET OF			
					or can cause painfu			
					Prolonged contact			
					N: Depending on			n, effects
					g from laryngeal ar			- 4 ¹ - 11
					possible fatal resul			
					chemical burns, na CARCINOGENIC			
	innai aunospi		=		T AID MEASURES		IANCTINU USI	
	OT Elusha	ith large ome			minutes then imme		lical aid	
					for at least 15 minu			lina
				Seek immedia		ites while removin		iing
					or is difficult, admi	nister artificial res	piration or oxyger	n as neede
	iate medical a							
NGESTION:	: Do not indu	ce vomiting.	Have victim	drink large qua	ntities of water if co	nscious, Immedi	ately seek medica	l aid.
<u>Never give a</u>	nything by mo	outh to an une	conscious pe	rson.			-	
			SECTI	ON 5: FIRE F	IGHTING MEASU	RES		
FLASH POIN	NT(method u	sed): Not Ap	plicable FL	AMMABLE LI	MITS: 15-28% in a	ir (for labeling pu	rposes, not DOT	
		UISHING ME	DIA: With a	source of ignit	ion, ammonia will b	urn in the range c	of 15-28% in air. St	op flow
of gas or liqu								
					n fire zone if possib			
					rectly on liquid amn	nonia. Personnel	must be equipped	with
	protective clot						()	
	RD CLASSI	-ICATION:				eactivity: 0	(least-0 4-	highest)
					AL RELEASE MEA			
n US, releas	e of 100 lb. o	r more of am	monia must l	be reported imr	nediately to the Na	tional Response (Center at (800) 424	1-8802,
					eak if feasible. Ave			
					se copious amount			
					un-off to prevent an of loading, transpo			
	J.S. DOT as r				or loading, danspo	nang, unioaung c	or temporary stora	ige, musi
	.0. 001 03 1	Squirea by 40			LING AND STORA	CE		
Refer to the		tandard for el			ation. Protect conta		al damage and	
					ns. Zinc, copper, s			t not he
					Avoid hydrostatic			
					Irostatic pressure re			
<u>~</u>					ROLS/PERSONAL			
RESPIRATO	RY PROTEC				by NIOSH / MSHA		st be used when e	xposure
					contained breathing			
				nitude of expo		0		
1-1-1-1-1 P			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					

MSDS 4001 Revision 06-20-07

SKIN PROTECTION: Rubber gloves and rubber or other types of approved protective clothing should b	e used to	preve	ent sl	kin
contact. A face shield should be used for increased protection from contact with liquid or vapor.				

EYE PROTECTION: Chemical splash goggles, approved for use with ammonia, must be worn to prevent eye contact with liquid or vapor. A face shield should be used for increased protection from contact with liquid.

VENTILATION: Local positive pressure and/or exhaust ventilation should be used to reduce vapor concentrations in confined spaces. Ammonia vapor, being lighter than air, can be expected to dissipate to the upper atmosphere. Ammonia concentrations may also be reduced by the use of an appropriate absorbent or reactant material.

	SECTION 9: PHY	SICAL AND CHEMICAL PROPERTIE	ES
BOILING POINT: -28.1	°F	SPECIFIC GRAVITY: 0.62	@ 60°F (water=1)
SOLUBILITY IN WATE		VAPOR DENSITY: 0.60 @) 32°F (Air=1)
MELTING POINT: -107		pH: Approx. 11.6 for 1 N S	
PERCENT VOLATILE		APPEARANCE: Colorless	, pungent gas
VAPOR PRESSURE: 4	4802.9 mm Hg @ 60°F or 107.6 j		
		: STABILITY AND REACTIVITY	
		ing above ambient temperature cause	
		n react violently with strong acids. Und	
		ompounds, which explode spontaneou	Isly. Reactions of ammonia with
	o form explosive fulminate-like co		
	ntact with certain metals such as	ogen on heating to over 850°F. The de	composition temperature may be
	ERIZATION: Will not occur	CONDITIONS TO AVOID:	Not applicable
		TOXICOLOGICAL INFORMATION	
Ammonia is a strong alk		tissues. Ammonia is not a cumulative	motobolic poison
			vailable and no adverse effects are
anticipated.	ductive, initiagenicity, relatoge		valiable and no adverse effects are
Synergistic Materials: N	Jone known.		
[2: ECOLOGICAL INFORMATION	
AQUATIC TOXICITY: 2	2.0-2.5 ppm/1-4 days/ goldfish an		ERFOWL TOXICITY: 120 ppm
	60-80 ppm/3 days/crayfish/LC ₁₀₀ ;		YGEN DEMAND: Not pertinent
	3.2ppm/96hr/fathead minnow/TLn		ITRATION POTENTIAL: None
		: DISPOSAL CONSIDERATIONS	
Recover ammonia if fea	sible. Otherwise, let ammonia e	vaporate if appropriate. Only personne	el experienced in ammonia spills
		ammonia as a fertilizer or in an industr	
	24-9346, the RCRA Hotline.		• • • • • • • • • • • • • • • • • • • •
	SECTION 1	4: TRANSPORT INFORMATION	
	DOMESTIC SHIPMENTS	INTERNATIONAL SHIPMENTS	CANADIAN TDG ACT
Proper shipping name:	Ammonia, Anhydrous	Ammonia, Anhydrous	Ammonia, Anhydrous
Shipping Class:	DOT 2.2 (nonflammable gas)	2.3 (poison gas)	2.4 (9.2)
Identification Number:	UN1005	UN1005	UN1005
Packing Group:	None	None	None
		: REGULATORY INFORMATION	
NOTICE: This product	is subject to the reporting require	ments of SARA (1986, Section 313 of	Title III) and 40 CFR Part 370.
		releases of 100 lb. or more of ammor	
		SERC, and the LEPC. Written follow	
		10.1200: Ammonia is considered a ha	azardous chemical.
	CONTROL ACT: This material is	TO-KNOW ACT (SARA, TITLE III): S	action 302 Extremely Hazardous
		s: Immediate (Acute) Health Hazards;	
	(1%) CALIFORNIA PROPOSIT		arcinogen: <u>No</u>
		910.119: This product is subject to the	
		n quantities of 10,000 lb. or greater.	·······
		ON, 40 CFR PART 68: This product i	s subject to the Risk Management
Plan requirements of 40) CFR Part 68 if maintained on-si	te in quantities of 10,000 lb. or greater	
DRINKING WATER: M	<u>laximum use dosage in potable v</u>	vater is 5mg/l.	
	SECTION	16: OTHER INFORMATION	
		Customer Service Number in Section	
			ndustries to Airgas Specialty Products.
MSDS PREPARED BY	: Airgas Specialty Products	d. 5. California PEL limits added.	
This information is taken fi correctness or sufficiency o	rom sources or based upon data believe f any of the foregoing or that additional or	ed to be reliable, however, Airgas Specialty Pr other measures may not be required under part	oducts makes no warranty as to the absolute icular conditions.



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Material Safety Data Sheet Sulfuric acid MSDS

Section 1: Chemical Product and Company Identification				
Product Name: Sulfuric acid	Contact Information:			
Catalog Codes: SLS2539, SLS1741, SLS3166, SLS2371, SLS3793	Sciencelab.com, Inc. 14025 Smith Rd. Houston, Texas 77396			
CAS#: 7664-93-9 RTECS: WS5600000	US Sales: 1-800-901-7247 International Sales: 1-281-441-4400			
TSCA: TSCA 8(b) inventory: Sulfuric acid	Order Online: ScienceLab.com			
CI#: Not applicable.	CHEMTREC (24HR Emergency Telephone), call: 1-800-424-9300			
Synonym: Oil of Vitriol; Sulfuric Acid	International CHEMTREC, call: 1-703-527-3887			
Chemical Name: Hydrogen sulfate For non-emergency assistance, call: 1-281-441-4400 Chemical Formula: H2-SO4 For non-emergency assistance, call: 1-281-441-4400				

Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Sulfuric acid	7664-93-9	95 - 98

Toxicological Data on Ingredients: Sulfuric acid: ORAL (LD50): Acute: 2140 mg/kg [Rat.]. VAPOR (LC50): Acute: 510 mg/m 2 hours [Rat]. 320 mg/m 2 hours [Mouse].

Section 3: Hazards Identification

Potential Acute Health Effects:

Very hazardous in case of skin contact (corrosive, irritant, permeator), of eye contact (irritant, corrosive), of ingestion, of inhalation. Liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract. Skin contact may produce burns. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. Severe over-exposure can result in death. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

Potential Chronic Health Effects:

CARCINOGENIC EFFECTS: Classified 1 (Proven for human.) by IARC, + (Proven.) by OSHA. Classified A2 (Suspected for human.) by ACGIH. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance may be toxic to kidneys, lungs, heart, cardiovascular system, upper respiratory tract, eyes, teeth. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated or prolonged

contact with spray mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection. Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

Section 4: First Aid Measures

Eye Contact:

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately.

Skin Contact:

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

Serious Skin Contact:

Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Serious Inhalation:

Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. WARNING: It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention.

Ingestion:

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: Non-flammable.

Auto-Ignition Temperature: Not applicable.

Flash Points: Not applicable.

Flammable Limits: Not applicable.

Products of Combustion:

Products of combustion are not available since material is non-flammable. However, products of decomposition include fumes of oxides of sulfur. Will react with water or steam to produce toxic and corrosive fumes. Reacts with carbonates to generate carbon dioxide gas. Reacts with cyanides and sulfides to form poisonous hydrogen cyanide and hydrogen sulfide respectively.

Fire Hazards in Presence of Various Substances: Combustible materials

Explosion Hazards in Presence of Various Substances:

Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available. Slightly explosive in presence of oxidizing materials.

Fire Fighting Media and Instructions: Not applicable.

Special Remarks on Fire Hazards:

Metal acetylides (Monocesium and Monorubidium), and carbides ignite with concentrated sulfuric acid. White Phosphorous + boiling Sulfuric acid or its vapor ignites on contact. May ignite other combustible materials. May cause fire when sulfuric acid is mixed with Cyclopentadiene, cyclopentanone oxime, nitroaryl amines, hexalithium disilicide, phorphorous (III) oxide, and oxidizing agents such as chlorates, halogens, permanganates.

Special Remarks on Explosion Hazards:

M i x t u r e s o f s u l f u r i c a c i d a n d a n y o f t h e f o l l o w i n g c a n e x p l o d e : p - n i t r o t o l u e n e , p e n t a s i l v e r trihydroxydiaminophosphate, perchlorates, alcohols with strong hydrogen peroxide, ammonium tetraperoxychromate, mercuric nitrite, potassium chlorate, potassium permanganate with potassium chloride, carbides, nitro compounds, nitrates, carbides, phosphorous, iodides, picratres, fulminats, dienes, alcohols (when heated) Nitramide decomposes explosively on contact with concentrated sulfuric acid. 1,3,5-Trinitrosohexahydro-1,3,5-triazine + sulfuric acid causes explosive decompositon.

Section 6: Accidental Release Measures

Small Spill:

Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. If necessary: Neutralize the residue with a dilute solution of sodium carbonate.

Large Spill:

Corrosive liquid. Poisonous liquid. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not get water inside container. Do not touch spilled material. Use water spray curtain to divert vapor drift. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. Neutralize the residue with a dilute solution of sodium carbonate. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Section 7: Handling and Storage

Precautions:

Keep locked up.. Keep container dry. Do not ingest. Do not breathe gas/fumes/ vapor/spray. Never add water to this product. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, reducing agents, combustible materials, organic materials, metals, acids, alkalis, moisture. May corrode metallic surfaces. Store in a metallic or coated fiberboard drum using a strong polyethylene inner package.

Storage:

Hygroscopic. Reacts. violently with water. Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above 23°C (73.4°F).

Section 8: Exposure Controls/Personal Protection

Engineering Controls:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection:

Face shield. Full suit. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves. Boots.

Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits:

TWA: 1 STEL: 3 (mg/m3) [Australia] Inhalation TWA: 1 (mg/m3) from OSHA (PEL) [United States] Inhalation TWA: 1 STEL: 3 (mg/m3) from ACGIH (TLV) [United States] [1999] Inhalation TWA: 1 (mg/m3) from NIOSH [United States] Inhalation TWA: 1 (mg/m3) [United Kingdom (UK)]Consult local authorities for acceptable exposure limits.

Section 9: Physical and Chemical Properties

Physical state and appearance: Liquid. (Thick oily liquid.) Odor: Odorless, but has a choking odor when hot. Taste: Marked acid taste. (Strong.) Molecular Weight: 98.08 g/mole Color: Colorless. pH (1% soln/water): Acidic. **Boiling Point:** 270°C (518°F) - 340 deg. C Decomposes at 340 deg. C Melting Point: -35°C (-31°F) to 10.36 deg. C (93% to 100% purity) Critical Temperature: Not available. Specific Gravity: 1.84 (Water = 1) Vapor Pressure: Not available. Vapor Density: 3.4 (Air = 1) Volatility: Not available. Odor Threshold: Not available. Water/Oil Dist. Coeff.: Not available. lonicity (in Water): Not available. Dispersion Properties: See solubility in water. Solubility: Easily soluble in cold water. Sulfuric is soluble in water with liberation of much heat. Soluble in ethyl alcohol.

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability:

Conditions to Avoid: Incompatible materials, excess heat, combustible material materials, organic materials, exposure to moist air or water, oxidizers, amines, bases. Always add the acid to water, never the reverse.

Incompatibility with various substances:

Reactive with oxidizing agents, reducing agents, combustible materials, organic materials, metals, acids, alkalis, moisture.

Corrosivity:

Extremely corrosive in presence of aluminum, of copper, of stainless steel(316). Highly corrosive in presence of stainless steel(304). Non-corrosive in presence of glass.

Special Remarks on Reactivity:

Hygroscopic. Strong oxidizer. Reacts violently with water and alcohol especially when water is added to the product. Incompatible (can react explosively or dangerously) with the following: ACETIC ACID, ACRYLIC ACID, AMMONIUM HYDROXIDE, CRESOL, CUMENE, DICHLOROETHYL ETHER, ETHYLENE CYANOHYDRIN, ETHYLENEIMINE, NITRIC ACID, 2-NITROPROPANE, PROPYLENE OXIDE, SULFOLANE, VINYLIDENE CHLORIDE, DIETHYLENE GLYCOL MONOMETHYL ETHER, ETHYL ACETATE, ETHYLENE CYANOHYDRIN, ETHYLENE GLYCOL MONOETHYL ETHER ACETATE, GLYOXAL, METHYL ETHYL KETONE, dehydrating agents, organic materials, moisture (water), Acetic anhydride, Acetone, cyanohydrin, Acetone+nitric acid, Acetone + potassium dichromate, Acetonitrile, Acrolein, Acrylonitrile, Acrylonitrile +water, Alcohols + hydrogen peroxide, ally compounds such as Allyl alcohol, and Allyl Chloride, 2-Aminoethanol, Ammonium hydroxide, Ammonium triperchromate, Aniline, Bromate + metals, Bromine pentafluoride, n-Butyraldehyde, Carbides, Cesium acetylene carbide, Chlorates, Cyclopentanone oxime, chlorinates, Chlorates + metals, Chlorine trifluoride, Chlorosulfonic acid, 2-cyano-4-nitrobenzenediazonium hydrogen sulfate, Cuprous nitride, p-chloronitrobenzene, 1,5-Dinitronaphthlene + sulfur, Diisobutylene, p-dimethylaminobenzaldehyde, 1,3-Diazidobenzene, Dimethylbenzylcarbinol + hydrogen peroxide, Epichlorohydrin, Ethyl alcohol + hydrogen peroxide, Ethylene diamine, Ethylene glycol and other glycols, , Ethylenimine, Fulminates, hydrogen peroxide, Hydrochloric acid, Hydrofluoric acid, lodine heptafluoride, Indane + nitric acid, Iron, Isoprene, Lithium silicide, Mercuric nitride, Mesityl oxide, Mercury nitride, Metals (powdered), Nitromethane, Nitric acid + glycerides, p-Nitrotoluene, Pentasilver trihydroxydiaminophosphate, Perchlorates, Perchloric acid, Permanganates + benzene, 1-Phenyl-2-methylpropyl alcohol + hydrogen peroxide, Phosphorus, Phosphorus isocyanate, Picrates, Potassium tert-butoxide, Potassium chlorate, Potassium Permanganate and other permanganates, halogens, amines, Potassium Permanganate + Potassium chloride, Potassium Permanganate + water, Propiolactone (beta)-, Pyridine, Rubidium aceteylene carbide, Silver permanganate, Sodium, Sodium carbonate, sodium hydroxide, Steel, styrene monomer, toluene + nitric acid, Vinyl acetate, Thalium (I) azidodithiocarbonate, Zinc chlorate, Zinc Iodide, azides, carbonates, cyanides, sulfides, sulfites, alkali hydrides, carboxylic acid anhydrides, nitriles, olefinic organics, aqueous acids, cyclopentadiene, cyano-alcohols, metal acetylides, Hydrogen gas is generated by the action of the acid on most metals (i.e. lead, copper, tin, zinc, aluminum, etc.). Concentrated sulfuric acid oxidizes, dehydrates, or sulfonates most organic compounds.

Special Remarks on Corrosivity:

Non-corrosive to lead and mild steel, but dillute acid attacks most metals. Attacks many metals releasing hydrogen. Minor corrosive effect on bronze. No corrosion data on brass or zinc.

Polymerization: Will not occur.

Section 11: Toxicological Information

Routes of Entry: Absorbed through skin. Dermal contact. Eye contact. Inhalation. Ingestion.

Toxicity to Animals:

WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE. Acute oral toxicity (LD50): 2140 mg/kg [Rat.]. Acute toxicity of the vapor (LC50): 320 mg/m3 2 hours [Mouse].

Chronic Effects on Humans:

CARCINOGENIC EFFECTS: Classified 1 (Proven for human.) by IARC, + (Proven.) by OSHA. Classified A2 (Suspected for human.) by ACGIH. May cause damage to the following organs: kidneys, lungs, heart, cardiovascular system, upper respiratory tract, eyes, teeth.

Other Toxic Effects on Humans:

Extremely hazardous in case of inhalation (lung corrosive). Very hazardous in case of skin contact (corrosive, irritant, permeator), of eye contact (corrosive), of ingestion, .

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans:

Mutagenicity: Cytogenetic Analysis: Hamster, ovary = 4mmol/L Reproductive effects: May cause adverse reproductive effects based on animal data. Developmental abnormalities (musculoskeletal) in rabbits at a dose of 20 mg/m3 for 7 hrs.(RTECS) Teratogenecity: neither embryotoxic, fetoxic, nor teratogenetic in mice or rabbits at inhaled doses producing some maternal toxicity

Special Remarks on other Toxic Effects on Humans:

Acute Potential Health Effects: Skin: Causes severe skin irritation and burns. Continued contact can cause tissue necrosis. Eye: Causes severe eye irritation and burns. May cause irreversible eye injury. Ingestion: Harmful if swallowed. May cause permanent damage to the digestive tract. Causes gastrointestial tract burns. May cause perforation of the stomach, GI bleeding, edema of the glottis, necrosis and scarring, and sudden circulatory collapse(similar to acute inhalation). It may also cause systemic toxicity with acidosis. Inhalation: May cause severe irritation of the respiratory tract and mucous membranes with sore throat, coughing, shortness of breath, and delayed lung edema. Causes chemical burns to the repiratory tract. Inhalation may be fatal as a result of spasm, inflammation, edema of the larynx and bronchi, chemical pneumonitis, and pulmonary edema. Cause corrosive action on mucous membranes. May affect cardiovascular system (hypotension, depressed cardiac output, bradycardia). Circulatory collapse with clammy skin, weak and rapid pulse, shallow respiration, and scanty urine may follow. Circulatory shock is often the immediate cause of death. May also affect teeth(changes in teeth and supporting structures - erosion, discoloration). Chronic Potential Health Effects: Inhalation: Prolonged or repeated inhalation may affect behavior (muscle contraction or spasticity), urinary system (kidney damage), and cardiovascular system, heart (ischemic heart leisons), and respiratory system/lungs(pulmonary edema, lung damage), teeth (dental discoloration, erosion). Skin: Prolonged or repeated skin contact may cause dermatitis, an allergic skin reaction.

Section 12: Ecological Information

Ecotoxicity: Ecotoxicity in water (LC50): 49 mg/l 48 hours [bluegill/sunfish].

BOD5 and COD: Not available.

Products of Biodegradation:

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are less toxic than the product itself.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal:

Sulfuric acid may be placed in sealed container or absorbed in vermiculite, dry sand, earth, or a similar material. It may also be diluted and neutralized. Be sure to consult with local or regional authorities (waste regulators) prior to any disposal. Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14: Transport Information

DOT Classification: Class 8: Corrosive material

Identification: : Sulfuric acid UNNA: 1830 PG: II

Special Provisions for Transport: Not available.

Section 15: Other Regulatory Information

Federal and State Regulations:

Illinois toxic substances disclosure to employee act: Sulfuric acid New York release reporting list: Sulfuric acid Rhode Island RTK hazardous substances: Sulfuric acid Pennsylvania RTK: Sulfuric acid Minnesota: Sulfuric acid Massachusetts RTK: Sulfuric acid New Jersey: Sulfuric acid California Director's List of Hazardous Substances (8 CCR 339): Sulfuric acid Tennessee RTK: Sulfuric acid TSCA 8(b) inventory: Sulfuric acid SARA 302/304/311/312 extremely hazardous substances: Sulfuric acid SARA 313 toxic chemical notification and release reporting: Sulfuric acid CERCLA: Hazardous substances.: Sulfuric acid: 1000 lbs. (453.6 kg)

Other Regulations:

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications:

WHMIS (Canada):

CLASS D-1A: Material causing immediate and serious toxic effects (VERY TOXIC). CLASS E: Corrosive liquid.

DSCL (EEC):

R35- Causes severe burns. S2- Keep out of the reach of children. S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S30- Never add water to this product. S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

HMIS (U.S.A.):

Health Hazard: 3

Fire Hazard: 0

Reactivity: 2

Personal Protection:

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

Health: 3

Flammability: 0

Reactivity: 2

Specific hazard:

Protective Equipment:

Gloves. Full suit. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Face shield.

Section 16: Other Information

References:

-Material safety data sheet emitted by: la Commission de la Santé et de la Sécurité du Travail du Québec. -The Sigma-Aldrich Library of Chemical Safety Data, Edition II. -Hawley, G.G.. The Condensed Chemical Dictionary, 11e ed., New York N.Y., Van Nostrand Reinold, 1987.

Other Special Considerations: Not available.

Created: 10/09/2005 11:58 PM

Last Updated: 05/21/2013 12:00 PM

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APPENDIX 3: CAMEO CALCULATIONS

5	Screening & Scenarios Last Modified 7/20/2017
	Facility / Route Name Central Storage & Warehouse Company Chemical Anhydrous Ammonia CAS 7664-41-7
	Scenario Name CSW - Ammonia - Worst Case Datasheet
	In Inventory In Transit Shipper
$\left[\right]$	Scenario Description Notes
	Amount Released 2464 pounds Physical State Gas Concentration 100 weight % Release Duration 10 minutes 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 Ground Roughness open country Wind From in degrees measured clockwise from 0 N. Stability Class F (for example: 015, 315, 270)
	Risk Probability of described accident occurring Consequences Severity of consequence to people Overall Risk Combination of probability and severity of consequence
L	Threat Zone Radius 6.2 miles Show on Map

S	Creening & Scenarios Last Modified 7/20/2017)
	Facility / Route Name Central Storage & Warehouse Company Chemical Anhydrous Ammonia CAS 7664-41-7 Scenario Name CSW - Ammonia Datasheet	
L	X In Inventory In Transit Shipper	
	Scenario Description Notes	
	Amount Released 2464 pounds Physical State Gas Concentration 100 weight % Solid Release Duration 10 minutes 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 11.9 mph Ground Roughness open country Wind From in degrees measured clockwise from 0 N. Stability Class D (for example: 015, 315, 270)	
	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 0.7 miles Show on Map	

COUNTY: Eau Claire	
NEW UPDATE FINAL UPDATE	
Facility ID No. : 137176	
Facility Name: Indianhead Foodservice	
Facility Address: 313 Hastings Place, PO Box 1506, Eau Claire, Wisconsin 54702-1506	
	_

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

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

County Emergency Management Director

WEM / SERC ACCEPTANCE:

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

WEM Regional Director

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

WISCONSIN EMERGENCY MANAGEMENT **PO BOX 7865** MADISON WI 53707-7865

§323.60 WI Stats **POW FFY 2021** Page 1 of 3

27/2021

Date

Date

Date

FACILITY OFF-SITE PLAN REVIEW GUIDE

<u>EPCR</u>	A 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 - 11
9)	Population protection	6
10)	Special considerations	6
11)	Site Plan / Facility Layout	16 (Appendix 1)
РО ВОХ	ISIN EMERGENCY MANAGEMENT 7865 N WI 53707-7865	§323.60 WI Stats POW FFY 2021 Page 2 of 3

COUNTY: Eau Claire
IEW UPDATE FINAL UPDATE
Facility ID No. : 137176
acility Name: Indianhead Foodservice
acility Address: 313 Hastings Place, PO Box 1506, Eau Claire, Wisconsin 54702-1506

 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 B. Safety Data Sheet (SDS) for each EHS C. Vulnerability Zone Calculations 29 - 32 					
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Adjacent County Emergency Management Office when impacted by vulnerability zone 13) Required Attachments A. Vulnerability Zone map highlighting special facilities 12 - 15 B. Safety Data Sheet (SDS) for each EHS 17 - 28 20 22	Designated Hazmat team				
 13) Required Attachments A. Vulnerability Zone map highlighting special facilities <u>12 - 15</u> B. Safety Data Sheet (SDS) for each EHS <u>17 - 28</u> 20 - 22 		Cou	ity Emergency Management Office		
 A. Vulnerability Zone map highlighting special facilities <u>12 - 15</u> B. Safety Data Sheet (SDS) for each EHS <u>17 - 28</u> 		Adja	cent County Emergency Management Office when imp	pacted by vulnerability zone	
B. Safety Data Sheet (SDS) for each EHS 17 - 28	13)	Req	uired Attachments		
		A.	Vulnerability Zone map highlighting special facilities	12 - 15	
C. Vulnerability Zone Calculations 29 - 32		B.	Safety Data Sheet (SDS) for each EHS	17 - 28	
		C.	Vulnerability Zone Calculations	29 - 32	

D.

Transportation route(s) map



Indianhead Foodservice Distributor Facility Off-Site Emergency Response Plan





Facility #137176 Indianhead Foodservice Distributor 313 Hastings Place PO Box 1506 Eau Claire, Wisconsin 54702-1506 Eau Claire County Emergency Management 721 Oxford Avenue, Suite 3344 Eau Claire, Wisconsin 54703

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CAMEO Calculations	Appendix 3

RECORD OF CHANGES

Change	Date Changed	Change Made By
Created	April 30, 2018	JA
Facility Updates	May 7, 2018	Dan Walker
Plan Update	May 27, 2021	SS

SECTION 1: FACILITY INFORMATION

A. Address

Indianhead Foodservice Distributor 313 Hastings Place PO Box 1506 Eau Claire, Wisconsin 54702-1506

B. Facility ID

137176

C. Map



D. Emergency Contacts

Primary: Jesse Gillett Phone: 715-930-7977 24 Hour: 715-271-0717 jgillett@callifd.com

<u>Secondary:</u> Dan Walker Phone: 715-834-6513 ext. 127 24 Hour: 715-225-8864 dwalker@callifd.com

E. Extremely Hazardous Substances

Anhydrous Ammonia	Inventory:	Storage:				
Chemical ID: 407114	Max Daily Amount (lbs): 6083	Container: Above ground tank				
CAS: 7664417	Ave. Daily Amount (lbs.): 6000	Location: Throughout the building as				
ERG: Guide 125	Number of days on site: 365	part of refrigeration system				
Sulfuric Acid Chemical ID: 407115 CAS: 7664939 ERG: Guide 137	Inventory: Max Daily Amount (lbs.): 8878.64 Ave. Daily Amount (lbs.): 8800 Number of days on site: 365	Storage: Container: Batteries Location: Forklift batteries				

F. Hazardous Substances

Not applicable

G. Resources/Support Available

The facility is equipped with ammonia detectors including coolers and engine room. The facility has access to the following Personal Protective Equipment (PPE):

- Mask (1)
- Aprons (1)
- PR Boots (1)
- Pair of Gloves (1)

H. Hazard Analysis

Indianhead Foodservice Distributor is a food warehousing operation that supplies food products for the awayfrom-home eating industry. The facility has 69,357 square feet of cooled floor space for product storage. The facility is located in an urban area east of Highway 53 and South of Birch Street; the immediate area is primarily a commercial district.

Sulfuric acid is used in batteries that power forklifts and other machinery used to move the food products inside the building; forklifts move throughout the building. It is unlikely that all batteries would spill contents at one time. Batteries vary in capacity from 36V batteries containing 262 pounds of sulfuric acid to 6V batteries containing 39 pounds of sulfuric acid; all batteries contain a 30% solution.

Based on the total amount of pure sulfuric acid on site, the evacuation area is estimated to be less than .1 miles using the scenario criteria listed below. Both the evaluation and reevaluation scenarios show an evacuation radius of less than .1 miles for a release of 8,800 pounds of sulfuric acid. A release at this location of sulfuric acid would impact employees on site and approximately 0 housing units.

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

Anhydrous ammonia is used by this industry for the cooling of food products that are warehoused at the facility. The largest container of anhydrous ammonia is a storage tank in the engine room. The system service agency estimates that the maximum amount of material that could be released during a catastrophic failure of a single vessel would be approximately 6,083 pounds. Anhydrous ammonia moves through the closed cooling system, therefore the volumes of the chemical change locations. It would be rare that this entire quantity would be present in the large storage tank, but it is possible.

Based on the total amount of anhydrous ammonia on site, the evacuation area is estimated to be greater than 10 miles using the scenario criteria listed below. The impact area would encompass the cities of Chippewa Falls, Lake Hallie, and Eau Claire and affect approximately 111,945 people (47,707 housing units) according to the CAMEO modeling tool.

Using the reevaluation criteria listed below, the evacuation area for a release of 4,245 pounds of anhydrous ammonia is 1.2 miles. The impact area would affect approximately 9,109 people (4,347 housing units) according to the CAMEO modeling tool.

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

I. Access to Facility

The facility currently operates on a 24/7 schedule, with the exception of a time period from 12:00 p.m. on Saturday to 10:00 a.m. Sunday. The facility has an arrangement with the Fire Department to obtain access to the building on the South side of the building along Galloway Street.

SECTION 2: OUTSIDE RESOURCES

A. Primary Response Agencies

Fire:	EMS:	Law:	Emergency Management:
Eau Claire Fire Dept.	Eau Claire Fire Dept.	City of Eau Claire Police	Eau Claire Office of
Eau Claire, WI 54701	Eau Claire, WI 54701	721 Oxford Avenue	Emergency Management
Phone: 715-839-5012	Phone: 715-839-5012	Eau Claire, WI 54703	721 Oxford Avenue
		Phone: 715-839-4972	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.

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

None.

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 preemergency 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	A Child's World Early Learning	Altoona Early Education Center
2821 Fairfax St	Center	701 W Seventh St
Eau Claire, WI 54720	2857 Western Ave	Altoona, WI 54720
715-552-1234	Eau Claire, WI 54703 715-835-7021	715-832-5543
Altoona Elementary School	Altoona Family Child Care Center	Altoona High School
157 Bartlett Ave	819 S Hillcrest Pkwy	711 7th Street West
Altoona, WI 54720	Altoona, WI 54720	Altoona, WI 54720
715-839-6050	715-552-5437	715-839-6031
Altoona Middle School	Aurora Residential	Aurora Residential Alternative
1903 Bartlett Ave	1302 Arien Ct	3635 Livingston Ln
Altoona, WI 54720	Eau Claire, WI 54703	Eau Claire, WI 54701
715-839-6030	715-835-9202	715-838-0719
Azura Memory of Eau Claire	Babes in Toyland Childcare	Beautiful Minds Child Care
3712 Damon St	4430 Tower Dr	2821 Fairfax St
Eau Claire, WI 54701	Eau Claire, WI 54703	Eau Claire, WI 54701
715-832-6696	715-830-9432	715-834-4360
Bethel Christian School	Brighter Beginnings Early Learning	Broadview University
2361 N Hastings Way	1612 Truax Blvd	4955 Bullis Farm Rd
Eau Claire, WI 54703	Eau Claire, WI 54703	Eau Claire, WI 54701
715-835-8866	715-831-9944	715-855-6600
Care Partners	Care Partners Assisted Living	Children's House Montessori
887 Briar Ln	3325 Birch St	415 E Lake St
Altoona, WI 54720	Eau Claire, WI 54701	Eau Claire, WI 54701
715-598-7401	715-514-3709	715-835-7861
Chippewa Falls County Altrntv	Chippewa Falls Halmstad	Chippewa Falls High School
2820 E Park Ave	Elementary School	735 Terrill St
Chippewa Falls, WI 54729	565 South Ave	Chippewa Falls, WI 54729
715-723-5542	Chippewa Falls, WI 54729 715-726-2415	715-726-2406
Chippewa Falls Middle School	Chippewa Falls School District	Chippewa Manor Retirement
750 Tropicana Blvd	1130 Miles St	756 Irvine St
Chippewa Falls, WI 54729	Chippewa Falls, WI 54729	Chippewa Falls, WI 54729
715-726-2400	715-726-2417	715-726-2123
Chippewa Valley Montessori	Chippewa Valley Technical College -	Chippewa Valley Technical College
	Business Education Center	
Charter School		Emergency Service Education
400 Cameron St	620 W Clairemont Ave	Center
Eau Claire, WI 54703	Eau Claire, WI 54701	3623 Campus Rd
715-852-6950	715-833-6200	Eau Claire, WI 54703 715-855-7500
Chippewa Valley Technical College-	Chippewa Valley Technical College-	Chippewa Valley Technical College
Energy Education Center	Health Education Center	Manufacturing Education Center
4000 Campus Rd	615 W Clairemont Ave	2320 Alpine Rd
Eau Claire, WI 54703	Eau Claire, WI 54701	Eau Claire, WI 54703
715-855-7502	715-833-6417	715-874-4600
Circle Friends Early Learning	City of Altoona	City of Eau Claire
1750 Hallie Rd	1303 Lynn Ave	203 S Farwell St
Chippewa Falls, WI 54729	Altoona, WI 54720	Eau Claire, WI 54701
	715-839-5192	715-839-4947
	, 10 000 0102	
715-552-9696	Color My World Child Caro	Community Bacad Basidantial
715-552-9696 Clearwater Care Center	Color My World Child Care	Community Based Residential
715-552-9696 Clearwater Care Center 2120 Heights Dr	1903 Western Ave	1930 Cleveland St
715-552-9696		_

Country Terrace of Altoona	Days Gone By Early Learning	Dearwood
1511 Devney Dr	3221 Lorch Ave	2011 N 60th Ave
Altoona, WI 54720	Eau Claire, WI 54701	Eau Claire, WI 54703
715-835-3474	715-835-1234	715-830-0518
Delong Middle School	Dove Healthcare- South Eau Claire	Dove Healthcare- West Eau Claire
2000 Vine Street	3656 Mall Dr	1405 Truax Blvd
Eau Claire, WI 54703	Eau Claire, WI 54701	Eau Claire, WI 54703
715-852-4900	715-552-1035	715-552-1030
Eau Claire Academy	Eau Claire County Courthouse	Eau Claire County Jail
550 N Dewey St	721 Oxford Ave	710 2nd Ave
Eau Claire, WI 54703	Eau Claire, WI 54703	Eau Claire, WI 54703
715-834-6681	715-839-4710	715-839-4702
Eau Claire Extension Office	Eau Claire Family Child Care	Eau Claire KinderCare
227 1st St W A	2140 Sherwin Ave	2115 Fairfax St
Altoona, WI 54720	Eau Claire, WI 54701	Eau Claire, WI 54701
715-839-4712	715-834-5439	715-832-8099

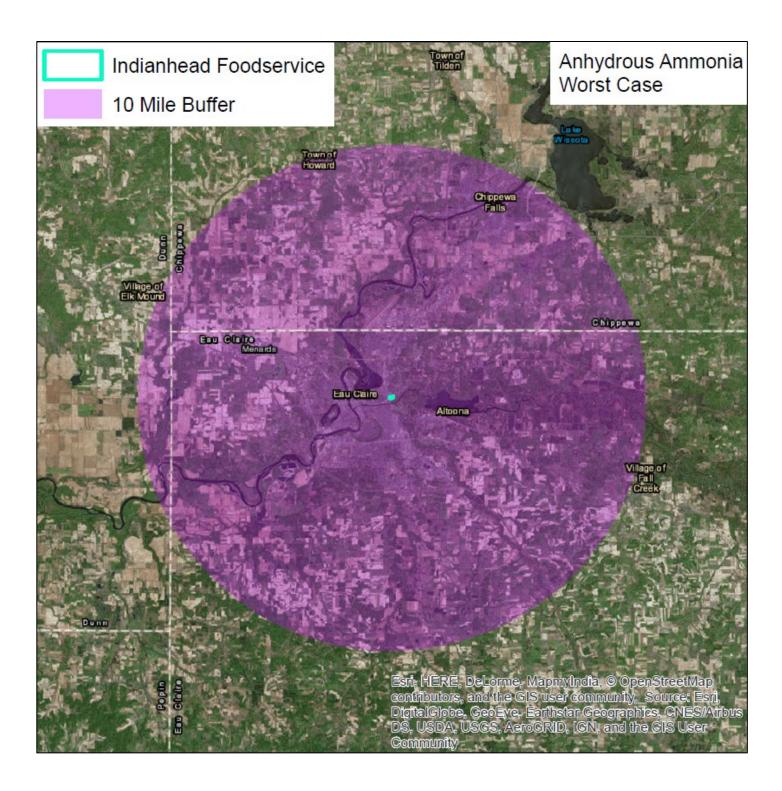
Eau Claire Police Department	Elk Mound High School	Elk Mound Middle School
740 2nd Ave	405 University St	302 University St
Eau Claire, WI 54703	Elk Mound, WI 54739	Elk Mound, WI 54739
715-839-4972	715-879-5521	715-879-5595
Family Tree	Family Tree Child Care Center	Federal Bureau of Investigation
2005 Agnes St	320 Division St	216 Pinnacle Way #310
Eau Claire, WI 54701	Altoona, WI 54720	Eau Claire, WI 54701
715-832-3663	715-894-7529	715-835-3761
Flynn Elementary School	From the Roots Early Learning	GCBK Group Homes Inc
1430 Lee St	Center, LLC	2821 Beverly Hills Dr
Eau Claire, WI 54701	2912 London Rd	Eau Claire, WI 54701
715-852-3300	Eau Claire, WI 54701	715-855-7701
	715-514-4881	
Genesis Child Development Center	Giggles Child Care Center	Grace Edgewood Asst
418 N Dewey St	1626 Starr Ave	2512 Spooner Ave
Eau Claire, WI 54703	Eau Claire, WI 54703	Altoona, WI 54720
715-830-2275	715-833-8767	715-832-5813
Grace Lutheran Communities	Grace Lutheran Communities- River	Grace Lutheran Foundation Inc
3410 Sky Park Blvd	Pines	822 Porter Ave
Eau Claire, WI 54701	206 N Willson Dr	Eau Claire, WI 54701
715-832-3003	Altoona, WI 54720	715-832-3003
	715-598-7800	
Grace School Age Child Care	Grace Willowbrook	Grace Woodlands
3410 Sky Park Blvd	4868 Otteson Ln	3214 Gala St
Eau Claire, WI 54701	Eau Claire, WI 54701	Eau Claire, WI 54703
715-832-3039	715-835-0429	715-831-8100
Gracelands Daycare LLC	Hand in Hand- A Place-Children	Harbor House
1711 Bellinger St	800 Wisconsin St	3712 Damon St
Eau Claire, WI 54703	Eau Claire, WI 54703	Eau Claire, WI 54701
715-832-4310	715-833-7744	715-832-6696
Heatherwood Assisted Living &	Heritage Court Memory Care	Heritage Court Memory Care
Memory Care	3515 E Hamilton Ave	3515 E Hamilton Ave
4510 Gateway Dr	Eau Claire, WI 54701	Eau Claire, WI 54701
Eau Claire, WI 54701	715-831-8200	715-831-8200
715-598-2768		
Heritage Senior Living at Oakwood Hills	Holy Ghost Elementary School	Hope Lutheran Preschool
3706 Damon St	436 Main St	2226 Eddy Ln
Eau Claire, WI 54701 715-831-9118	Chippewa Falls, WI 54729	Eau Claire, WI 54703
	715-723-6478	715-832-2998

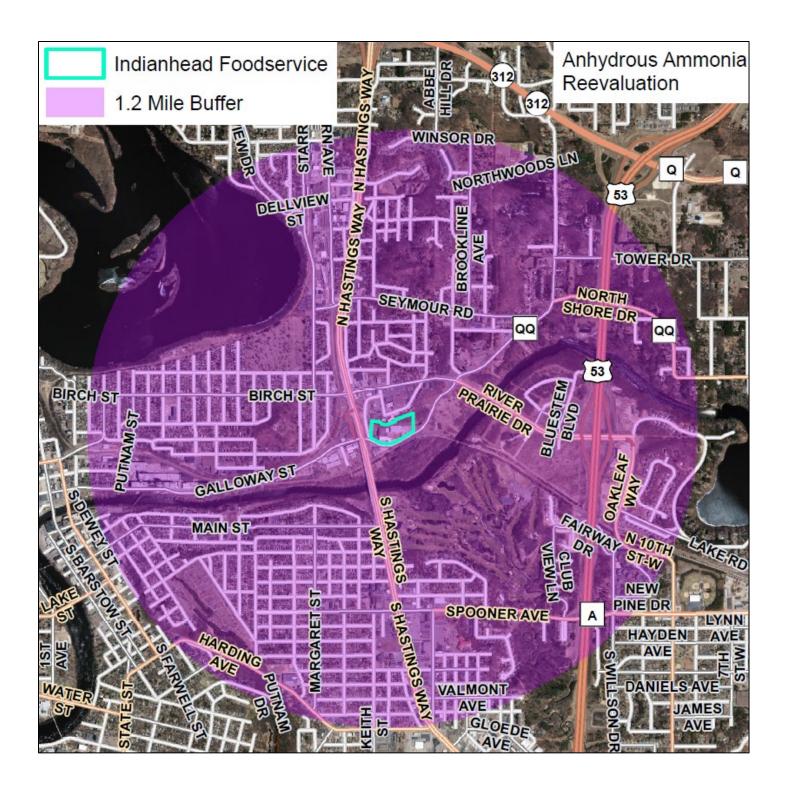
Immanuel Lutheran High School,	Kids Kingdom Mcp Llc	Lake Hallie Memory Care
College, & Seminary	3628 Spooner Ave	4407 124th St
501 Grover Rd	•	
	Altoona, WI 54720	Chippewa Falls, WI 54729
Eau Claire, WI 54701	715-514-3381	715-738-0011
715-836-6621		
Lakeshore Elementary School	Learn-A-Lot Preschool & Daycare	Learning Center
711 Lake Street	2834 W Princeton Ave	1721 Westgate Rd
Eau Claire, WI 54703	Eau Claire, WI 54703	Eau Claire, WI 54703
715-852-3400	715-834-0308	715-598-1819
Liberty Christian School	lil dudes-N-divas Daycare	Little Bloomers Child Care Center
6027 60th Ave	3631 E Hamilton Ave	3980 Tamara Dr
Chippewa Falls, WI 54729	Eau Claire, WI 54701	Eau Claire, WI 54701
715-723-0336	715-598-7003	715-839-1050
Little Jungle Childcare	Little School House. LLC	Little Star 2
5433 Star Ridge Rd	2328 N Hillcrest Pkwy	428 1st St W
Eau Claire, WI 54703	Altoona, WI 54720	Altoona, WI 54720
715-874-6300	715-214-6609	715-271-0743
Little Star Daycare	Locust Lane Elementary School	Luther Midelfort Clairemont
2245 Hayden Ave	3245 Locus Ln	733 W Clairemont Ave
Altoona, WI 54720	Eau Claire, WI 54703	Eau Claire, WI 54703
715-832-1513 ext. 4	715-852-3700	715-838-5222
Manz Elementary School	Marshfield Clinic	Marshfield Clinic
1000 E. Fillmore Ave	1002 W Clairemont Ave	1262 W Clairemont Ave
Eau Claire, WI 54701	Eau Claire, WI 54701	Eau Claire, WI 54701
715-852-3900	715-858-4099	715-858-4610
Mayo Clinic - Luther Campus	Mayo Clinic Health System	McDonnell Central Catholic High
1221 Whipple St	1400 Bellinger St	School
Eau Claire, WI 54703	Eau Claire, WI 54702	1316 Bel Air Blvd
715-838-3311	715-838-5222	Chippewa Falls, WI 54729
/15 050 5511	715 050 5222	715-723-9126
McKinley Charter School	Meadowview Elementary School	Memorial High School
1266 McKinley Road	4714 Fairfax Street	2225 Keith St
Eau Claire, WI 54703	Eau Claire, WI 54701	Eau Claire, WI 54701
715-852-6900	715-852-4000	715-852-6300
Mike Wilson House		
2409 Rudolph Rd	Milestone Senior Living- Eau Claire 5512 Renee Dr	Mound View Elementary School
1		455 University St
Eau Claire, WI 54701	Eau Claire, WI 54703	Elk Mound, WI 54739
715-838-9967	715-210-0178	715-879-5744
Natural Resources Conservation	New Hope Inc	North High School
1304 N Hillcrest Pkwy # A	10875 40th Ave	1801 Piedmont Rd
Altoona, WI 54720	Chippewa Falls, WI 54729	Eau Claire, WI 54703
715-832-6547	715-720-7360	715-852-6600
Northstar Middle School	Oak Gardens Place	OakLeaf Surgical Hospital
2711 Abbe Hill Dr	342 Twin Oak Dr	1000 OakLeaf Way
Eau Claire, WI 54703	Altoona, WI 54720	Altoona, WI 54720
715-852-5100	715-598-3447	715-831-8130
Oakwood Villa	Oakwood Villa	Our House Senior Living- Memory
2512 New Pine Dr	2512 New Pine Dr	Care
Altoona, WI 54720	Altoona, WI 54720	733 W Hamilton Ave
715-833-0400	715-839-7027	Eau Claire, WI 54701
		715-832-3970
Parkview Elementary School	Popular Place	Putnam Heights Elementary School
501 Jefferson Ave	3012 Milton Rd	633 W MacArthur Ave
Chippewa Falls, WI 54729	Eau Claire, WI 54703	Eau Claire, WI 54701
715-720-3750	715-832-1745	715-852-4200
	Real Life Co-Op	Redeemer Christian Preschool
	4115 Jeffers Rd	601 Fall St

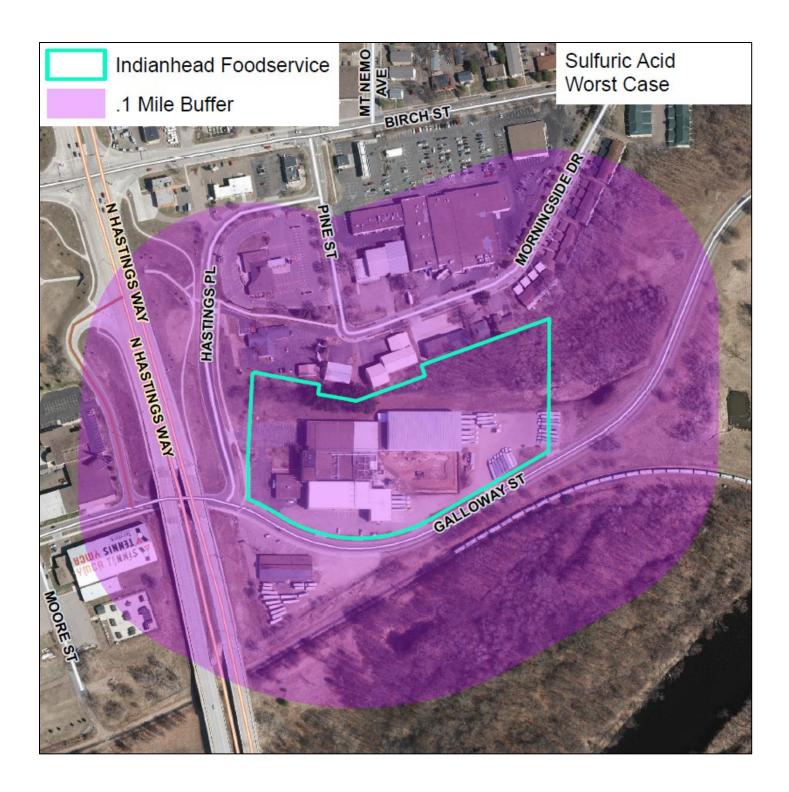
Rachel's Place Early Learning	Eau Claire, WI 54703	Eau Claire, WI 54703
2226 Eddy Ln	715-835-7622	715-835-5239
Eau Claire, WI 54703		
715-832-1414 ext. 2200		
Regis Child Development Center	Regis High School	Robins Elementary
2114 Fenwick Ave	2100 Fenwick Ave	3832 E Hamilton Ave
Eau Claire, WI 54701	Eau Claire, WI 54701	Eau Claire, WI 54701
715-830-2274	715-830-2271	715-852-4600
Sacred Heart Hospital	Saint Charles Borromeo Primary	Sandy's Helping Hands Daycare
900 W Clairemont Ave	School	1639 Ludgate St
Eau Claire, WI 54701	429 W Spruce St	Chippewa Falls, WI 54729
715-717-4121	Chippewa Falls, WI 54729	715-723-8168
	715-723-5827	
Shared Blessings Child	Sisters of St Benedict	Sleepers to Sneakers
Development Center	2120 Heights Dr	1303 Margaret St
520 E Grand Ave	Eau Claire, WI 54701	Eau Claire, WI 54701
Chippewa Falls, WI 54729	715-852-6221	715-834-6794
534-220-7051		

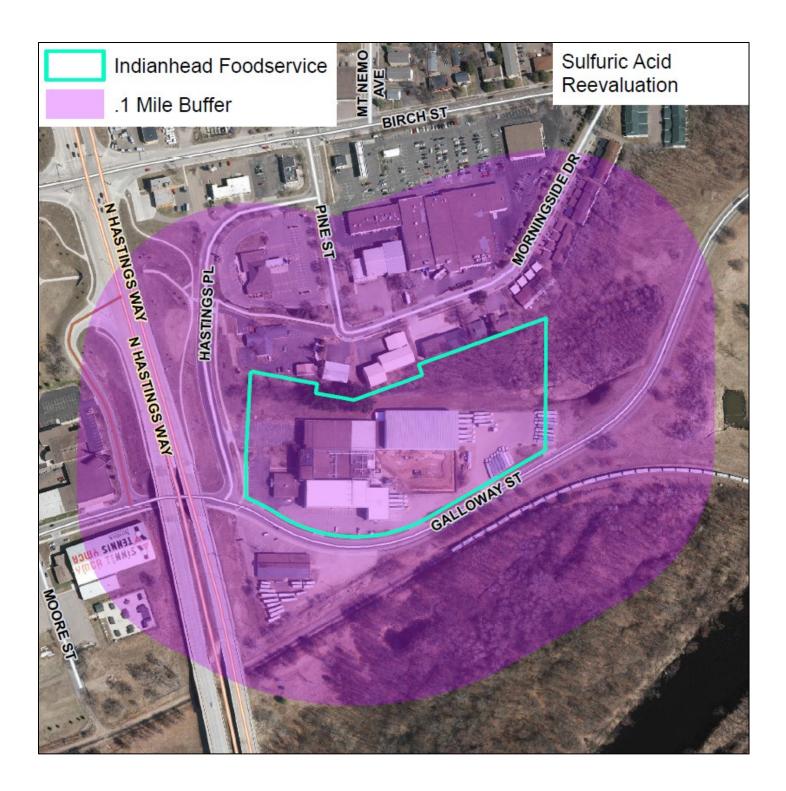
South Middle School	Southview Elementary School	St Mark's Lutheran School
2115 Mitscher Ave	615 A St	3307 State St
Eau Claire, WI 54701	Chippewa Falls, WI 54729	Eau Claire, WI 54701
715-852-5200	715-726-2411	715-834-5782
Stay N Play	Syverson Lutheran Home	The Classic at Hillcrest Greens
417 William St	816 Porter Ave	2455 Sawgrass Pl
Eau Claire, WI 54703	Eau Claire, WI 54701	Altoona, WI 54720
715-833-8331	715-832-1644	715-839-0200
The Kiddie Patch Early Learning	The Learning Tree Child Care Center	University of Wisconsin Eau Claire
Center	2140 Sherwin Ave	105 Garfield Ave P.O. Box 4004
4605 London Rd	Eau Claire, WI 54701	Eau Claire, WI 54702
Eau Claire, WI 54701	715-834-5439	715-836-4636
715-833-9464		
Westridge	YMCA-St. Mary's Elementary	Youthful Minds Learning Center
3841 96th St	School	827 S Hillcrest Pkwy.
Chippewa Falls, WI 54729	1828 Lynn Ave Altoona, WI 54720	
715-720-1309	Altoona, WI 54720 715-894-7529	
	715-830-2278	

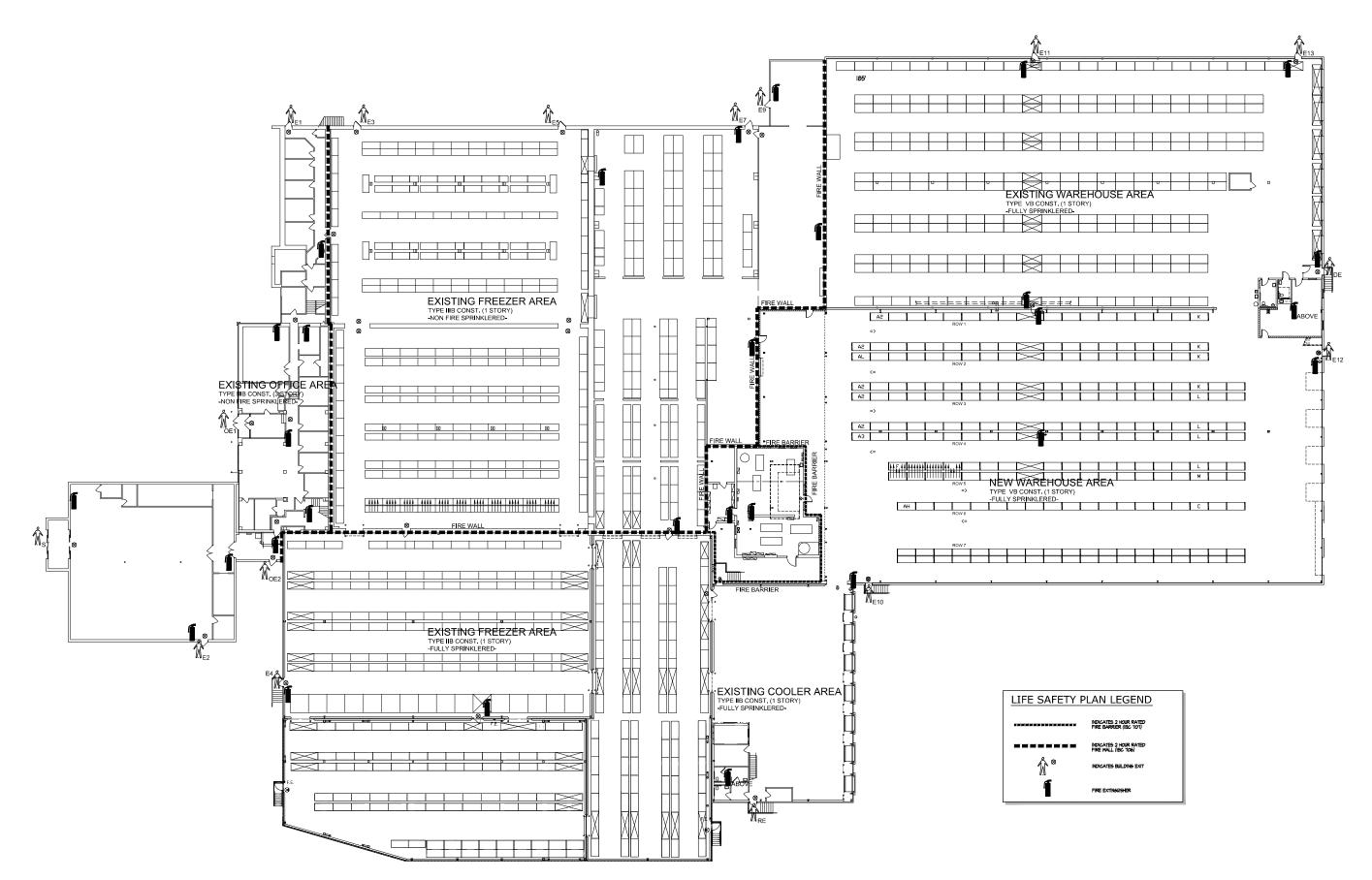
C. Vulnerability Zone Map See attached maps











APPENDIX 1: FACILITY LAYOUT

FIRST FLOOR LIFE SAFETY/EVACUATION PLAN



AMMONIA, ANHYDROUS

NON-FLAMMABLE GAS 2

INHALATION HAZARD



ATION ARD 2

Chemical Identifiers

CAS Number	UN/NA Number	DOT Hazard Label	CHRIS Code
7664-41-7 🏾 🎊	1005	Non-Flammable Gas (domestic)	AMA
		Inhalation Hazard (Special Provision 13) (domestic)	
		Poison Gas (international)	
		Corrosive (international)	

NFPA 704

Diamond	Hazard	Value	Description
1	Health	3	Can cause serious or permanent injury.
3 0	+ Flammability	1	Must be preheated before ignition can occur.
	Instability	0	Normally stable, even under fire conditions.
	Special		

Note: The Refrigeration System Classification section of the International Mechanical Code requires a value of 3 for the red quadrant (flammability hazard) for indoor ammonia refrigeration equipment. (NFPA, 2010)

General Description

A clear colorless gas with a strong odor. Shipped as a liquid under its own vapor pressure. Density (liquid) 6 lb / gal. Contact with the unconfined liquid can cause frostbite. Gas generally regarded as nonflammable but does burn within certain vapor concentration limits and with strong ignition. Fire hazard increases in the presence of oil or other combustible materials. Although gas is lighter than air, vapors from a leak initially hug the ground. Prolonged exposure of containers to fire or heat may cause violent rupturing and rocketing. Long-term inhalation of low concentrations of the vapors or short-term inhalation of high concentrations has adverse health effects. Used as a fertilizer, as a refrigerant, and in the manufacture of other chemicals.

Rate of onset: Immediate

Persistence: Minutes

Odor threshold: 17 ppm

Source/use/other hazard: Explosives manufacture; pesticides; detergents industry.

Hazards

Reactivity Alerts

Mater-Reactive

Air & Water Reactions

Soluble in water with evolution of heat. The amount of heat generated may be large.

Fire Hazard

Mixing of ammonia with several chemicals can cause severe fire hazards and/or explosions. Ammonia in container may explode in heat of fire. Incompatible with many materials including silver and gold salts, halogens, alkali metals, nitrogen trichloride, potassium chlorate, chromyl chloride, oxygen halides, acid vapors, azides, ethylene oxide, picric acid and many other chemicals. Mixing with other chemicals and water. Hazardous polymerization may not occur. (EPA, 1998)

Health Hazard

Vapors cause irritation of eyes and respiratory tract. Liquid will burn skin and eyes. Poisonous; may be fatal if inhaled. Contact may cause burns to skin and eyes. Contact with liquid may cause frostbite. (EPA, 1998)

Reactivity Profile

AMMONIA is a base. Reacts exothermically with all acids. Violent reactions are possible. Readily combines with silver oxide or mercury to form compounds that explode on contact with halogens. When in contact with chlorates it forms explosive ammonium chlorate [Kirk-Othmer, 3rd ed., Vol. 2, 1978, p. 470]. Reacts violently or produces explosive products with fluorine, chlorine, bromine and iodine and some of the interhalogen compounds (bromine pentafluoride, chlorine trifluoride). Mixing of bleaching powder (hypochlorite solution) with ammonia solutions produces toxic/explosive ammonia trichloride vapors. Undergoes potentially violent or explosive reactions on contact with 1,2-dichloroethane (with liquid ammonia), boron halides, ethylene oxide (polymerization), perchlorates or strong oxidants (chromyl chloride, chromium trioxide, chromic acid, nitric acid, hydrogen peroxide, chlorates, fluorine, nitrogen oxide, liquid oxygen). Reacts with silver chloride, silver oxide, silver nitrate or silver azide to form the explosive silver nitride. May react with some heavy metal compounds (mercury, gold(III) chloride) to produce materials that may explode when dry. [Bretherick, 5th ed., 1995, p. 1553].

Belongs to the Following Reactive Group(s)

• Bases, Weak

Potentially Incompatible Absorbents

No information available.

Response Recommendations

Isolation and Evacuation

Excerpt from GUIDE 125 [Gases - Corrosive]:

As an immediate precautionary measure, isolate spill or leak area for at least 100 meters (330 feet) in all

directions.

SPILL: See ERG Tables 1 and 3 - Initial Isolation and Protective Action Distances on the UN/NA 1005 datasheet.

FIRE: If tank, rail car or tank truck is involved in a fire, ISOLATE for 1600 meters (1 mile) in all directions; also, consider initial evacuation for 1600 meters (1 mile) in all directions. (ERG, 2016)

Firefighting

Wear positive pressure breathing apparatus and full protective clothing.

Small fires: dry chemical or carbon dioxide. Large fires: water spray, fog or foam. Apply water gently to the surface. Do not get water inside container. Move container from fire area if you can do it without risk. Stay away from ends of tanks. Cool containers that are exposed to flames with water from the side until well after fire is out. Isolate area until gas has dispersed. (EPA, 1998)

Non-Fire Response

Excerpt from GUIDE 125 [Gases - Corrosive]:

Fully encapsulating, vapor-protective clothing should be worn for spills and leaks with no fire. Do not touch or walk through spilled material. Stop leak if you can do it without risk. If possible, turn leaking containers so that gas escapes rather than liquid. Prevent entry into waterways, sewers, basements or confined areas. Do not direct water at spill or source of leak. Use water spray to reduce vapors or divert vapor cloud drift. Avoid allowing water runoff to contact spilled material. Isolate area until gas has dispersed. (ERG, 2016)

Protective Clothing

For emergency situations, wear a positive pressure, pressure-demand, full facepiece self-contained breathing apparatus (SCBA) or pressure- demand supplied air respirator with escape SCBA and a fully-encapsulating, chemical resistant suit. (EPA, 1998)

Normalized Breakthrough Times (in Minutes)												
Chemical	CAS Number	State	QC	SL	TF	ТР	C3	BR	LV	RC	ТК	RF
Ammonia (gas)	7664-41-7	Vapor	imm.	26	20	90	imm.	133	133	133	>480	>480
Ammonia (liquid, < -35°C)	7664-41-7	Liquid				>480	>480				>480	>480
Anhydrous ammonia (gas)	7664-41-7	Vapor	imm.	26	20	90	imm.	133	133	133	>480	>480
Anhydrous ammonia (liquid, < -35°C)	7664-41-7	Liquid				>480	>480				>480	>480

DuPont Tychem® Suit Fabrics

> indicates greater than.

"imm." indicates immediate; having a normalized breakthrough time of 10 minutes or less.

A blank cell indicates the fabric has not been tested. The fabric may or may not offer barrier.

Special Warnings from DuPont

- 1. Serged and bound seams are degraded by some hazardous liquid chemicals, such as strong acids, and should not be worn when these chemicals are present.
- 2. CAUTION: This information is based upon technical data that DuPont believes to be reliable. It is subject to revision as additional knowledge and experience are gained. DuPont makes no guarantee of

results and assumes no obligation or liability... (DuPont, 2016)

First Aid

Warning: Ammonia is extremely corrosive to the skin, eyes, and mucous membranes. Contact with the liquified gas may cause frostbite. Caution is advised.

Signs and Symptoms of Acute Ammonia Exposure: Inhalation of ammonia may cause irritation and burns of the respiratory tract, laryngitis, dyspnea (shortness of breath), stridor (high-pitched respirations), and chest pain. Pulmonary edema and pneumonia may also result from inhalation. A pink frothy sputum, convulsions, and coma are often seen following exposure to high concentrations. When ammonia is ingested, nausea and vomiting may result; oral, esophageal, and stomach burns are common. If ammonia has contacted the eyes, irritation, pain, conjunctivitis (red, inflamed eyes), lacrimation (tearing), and corneal erosion may occur. Loss of vision is possible. Dermal exposure may result in severe burns and pain.

Emergency Life-Support Procedures: Acute exposure to ammonia may require decontamination and life support for the victims. Emergency personnel should wear protective clothing appropriate to the type and degree of contamination. Air-purifying or supplied-air respiratory equipment should also be worn, as necessary.

Inhalation Exposure:

1. Move victims to fresh air. Emergency personnel should avoid self-exposure to ammonia.

2. Evaluate vital signs including pulse and respiratory rate, and note any trauma. If no pulse is detected, provide CPR. If not breathing, provide artificial respiration. If breathing is labored, administer oxygen or other respiratory support.

3. Obtain authorization and/or further instructions from the local hospital for administration of an antidote or performance of other invasive procedures.

4. Transport to a health care facility.

Dermal/Eye Exposure:

1. Remove victims from exposure. Emergency personnel should avoid self- exposure to ammonia.

2. Evaluate vital signs including pulse and respiratory rate, and note any trauma. If no pulse is detected, provide CPR. If not breathing, provide artificial respiration. If breathing is labored, administer oxygen or other respiratory support. Warning: Do not attempt to neutralize with an acid wash; excessive liberation of heat may result.

3. If eye exposure has occurred, eyes must IMMEDIATELY be flushed with lukewarm water for at least 15 minutes.

4. Remove contaminated clothing as soon as possible.

5. Wash exposed skin areas THOROUGHLY with soap and water.

6. Obtain authorization and/or further instructions from the local hospital for administration of an antidote or performance of other invasive procedures.

7. Transport to a health care facility.

Ingestion Exposure:

1. Evaluate vital signs including pulse and respiratory rate, and note any trauma. If no pulse is detected, provide CPR. If not breathing, provide artificial respiration. If breathing is labored, administer oxygen or other respiratory support.

2. DO NOT induce vomiting or attempt to neutralize!

3. Obtain authorization and/or further instructions from the local hospital for administration of an antidote or performance of other invasive procedures.

4. Activated charcoal does not strongly bind ammonia, and therefore is of little or no value.

5. Give the victims water or milk: children up to 1 year old, 125 mL (4 oz or 1/2 cup); children 1 to 12 years old, 200 mL (6 oz or 3/4 cup); adults, 250 mL (8 oz or 1 cup). Water or milk should be given only if victims are conscious and alert.

6. Transport to a health care facility. (EPA, 1998)

Physical Properties

Chemical Formula: H3N

Flash Point: data unavailable

Lower Explosive Limit (LEL): 16 % (EPA, 1998)

Upper Explosive Limit (UEL): 25 % (EPA, 1998)

Autoignition Temperature: 1204 ° F (USCG, 1999)

Melting Point: -107.9 ° F (EPA, 1998)

Vapor Pressure: 400 mm Hg at -49.72 ° F (EPA, 1998)

Vapor Density (Relative to Air): 0.6 (EPA, 1998)

Specific Gravity: 0.6818 at -28.03 ° F (EPA, 1998)

Boiling Point: -28.03 ° F at 760.0 mm Hg (EPA, 1998)

Molecular Weight: 17.03 (EPA, 1998)

Water Solubility: data unavailable

IDLH: 300 ppm (NIOSH, 2003)

AEGLs (Acute Exposure Guideline Levels)

Final AEGLs for Ammonia (7664-41-7)

Exposure Period	AEGL-1	AEGL-2	AEGL-3
10 minutes	30 ppm	220 ppm	2700 ppm
30 minutes	30 ppm	220 ppm	1600 ppm
60 minutes	30 ppm	160 ppm	1100 ppm
4 hours	30 ppm	110 ppm	550 ppm
8 hours	30 ppm	110 ppm	390 ppm

(NAC/NRC, 2016)

ERPGs (Emergency Response Planning Guidelines)

Chemical	ERPG-1	ERPG-2	ERPG-3
Ammonia (7664-41-7)	25 ppm 🕸	150 ppm	1500 ppm

indicates that odor should be detectable near ERPG-1.(AIHA, 2015)

PACs (Protective Action Criteria)

Chemical	PAC-1	PAC-2	PAC-3	
Ammonia (7664-41-7)	30 ppm	160 ppm	1100 ppm	LEL = 150000 ppm

(SCAPA, 2016)

Regulatory Information

EPA Consolidated List of Lists

Regulatory Name	CAS Number/ 313 Category Code	EPCRA 302 EHS TPQ	EPCRA 304 EHS RQ	CERCLA RQ	EPCRA 313 TRI	RCRA Code	CAA 112(r) RMP TQ
Ammonia	7664-41-7	500 pounds	100 pounds	100 pounds			
Ammonia (anhydrous)	7664-41-7	500 pounds	100 pounds	100 pounds	x		10000 pounds
Ammonia (conc 20% or greater)	7664-41-7			see ammonium hydroxide	X		20000 pounds
Ammonia (includes anhydrous ammonia and aqueous ammonia from water dissociable ammonium salts and other sources; 10 percent of total aqueous ammonia is							
reportable under this listing)	7664-41-7				313		

"X" indicates that this is a second name for an EPCRA section 313 chemical already included on this consolidated list. May also indicate that the same chemical with the same CAS number appears on another list with a different chemical name.

(EPA List of Lists, 2015)

DHS Chemical Facility Anti-Terrorism Standards (CFATS)

			RELEASE		THEFT		SABOTAGE		AGE	
Chemical of Interest	CAS Number	Min Conc	STQ	Security Issue	Min Conc	STQ	Security Issue	Min Conc	STQ	Security Issue
Ammonia (anhydrous)	7664-41- 7	1.00 %	10000 pounds	toxic						
Ammonia (conc. 20% or greater)	7664-41- 7	20.00 %	20000 pounds	toxic						

(DHS, 2007)

Alternate Chemical Names

- AM-FOL
- AMMONIA
- AMMONIA (ANHYDROUS)
- AMMONIA (ANHYDROUS) (LIQUEFIED)
- AMMONIA GAS
- AMMONIA SOLUTION, WITH MORE THAN 50% AMMONIA
- AMMONIA, ANHYDROUS
- AMMONIA, ANHYDROUS, LIQUEFIED
- AMMONIA, [ANHYDROUS]

- AMMONIA-14N
- ANHYDROUS AMMONIA
- ANHYDROUS AMMONIA, LIQUEFIED
- AQUA AMMONIA
- AQUEOUS AMMONIA
- LIQUID AMMONIA
- NITRO-SIL
- R 717
- REFRIGERENT R717
- SPIRIT OF HARTSHORN



CORROSIVE

Page 1 of 5

Print

Chemical Datasheet

SULFURIC ACID 3 2 ₩ Chemical Identifiers UN/NA Number CAS Number CHRIS Code DOT Hazard Label

SFA

1830 7664-93-9 NFPA 704: Red 0 -- Flammability: Will not burn Blue 3 -- Health Hazard: Extremely hazardous -

Blue 3 -- Health Hazard: Extremely hazardous - use full protection Yellow 2 -- Reactivity: Violent chemical change possible White ₩ -- Special: Unusually reactive with water

General Description

Sulfuric acid is a colorless oily liquid. It is soluble in water with release of heat. It is corrosive to metals and tissue. It will char wood and most other organic matter on contact, but is unlikely to cause a fire. Density 15 lb / gal. Long term exposure to low concentrations or short term exposure to high concentrations can result in adverse health effects from inhalation. It is used to make fertilizers and other chemicals, in petroleum refining, in iron and steel production, and for many other uses.

Rate of onset: Immediate

Persistence: Hours, days

Odor threshold:

Source/use/other hazard: Battery/dyes/paper/glue/metals industries; volcanic gas; toxic fumes when heated.

Hazards

Reactivity Alerts

Strong Oxidizing Agent Water-Reactive

Air & Water Reactions

Reaction with water is negligible unless acid strength is above 80-90% then heat from hydrolysis is extreme, may cause severe burns [Merck, 11th ed. 1989]. During sulfonation of mononitrobenzene by fuming sulfuric acid, a leak from an internal cooling coil permitted water to enter the reaction tank. A violent eruption occurred due to the heat of solution [MCA Case History 944 1963].

Fire Hazard

It is highly reactive and capable of igniting finely-divided combustible materials on contact. When heated, it emits highly toxic fumes. Avoid heat; water and organic materials. Sulfuric acid is explosive or incompatible with an enormous array of substances. Can undergo violent chemical change at elevated temperatures and pressure. May react violently with water. When heated, it emits highly toxic fumes. Hazardous polymerization may not occur. (EPA, 1998)

Health Hazard

Corrosive to all body tissues. Inhalation of vapor may cause serious lung damage. Contact with eyes may result in total loss of vision. Skin contact may produce severe necrosis. Fatal amount for adult: between 1 teaspoonful and one-half ounce of the concentrated chemical. Even a few drops may be fatal if the acid gains access to the trachea. Chronic exposure may cause tracheobronchitis, stomatitis, conjunctivitis, and gastritis. Gastric perforation and peritonitis may occur and may be followed by circulatory collapse. Circulatory shock is often the immediate cause of death. Those with chronic respiratory, gastrointestinal, or nervous diseases and any eye and skin diseases are at greater risk. (EPA, 1998)

Reactivity Profile

SULFURIC ACID is strongly acidic. Reacts violently with bromine pentafluoride [Mellor 2 Supp. 1:172 1956]. Exploded with para-nitrotoluene at 80 °C [Chem. Eng. News 27:2504]. An explosion occurred when concentrated sulfuric acid was mixed with crystalline potassium permanganate in a vessel containing moisture. Manganese heptoxide was formed, which explodes at 70°C [Delhez 1967]. A mixture of acrylonitrile with concentrated sulfuric acid must be kept well chilled, otherwise a vigorous exothermic reaction occurs [Chem. Safety Data Sheet SD-31:8. 1949]. Mixing sulfuric acid (96%) in equal portions with any of the following substances in a closed container caused the temperature and pressure to increase: acetonitrile, acrolein, 2-aminoethanol, ammonium hydroxide (28%), aniline, n-butyraldehyde, chlorosulfonic acid, ethylene diamine, ethyleneimine, epichlorohydrin, ethylene cyanohydrin, hydrochloric acid (36%), hydrofluoric acid (48.7%), propiolactone, propylene oxide, sodium hydroxide, styrene monomer [NFPA 1991]. Sulfuric acid (concentrated) is extremely hazardous in contact with carbides, bromates, chlorates, fulminates, picrates, and powdered metals [Haz. Chem. Data 1966]. Allyl chloride may polymerize violently under conditions involving an acid catalyst, such as sulfuric acid [Ventrone 1971]. React exothermically with sodium hypochlorite to produce chlorine gas. Mixing chlorosulfuric acid and 98% sulfuric acid may evolve HCl [Subref: Anon, Loss Prev. Bull. 1977, (013), 2-3]. Zinc iodide reacts violently with H2SO4. (Pascal, 1962, Vol. 5, 168).

Belongs to the Following Reactive Group(s)

- Acids, Inorganic Oxidizing
- **Response Recommendations**

Firefighting

Fight fire from safe distance or from protected location. Use care as water applied directly to this acid results in evolution of heat and causes spattering. Cool containers that are exposed to flames with streams of water until fire is out. Wear positive pressure breathing apparatus and special protective clothing.

Not flammable. For small fires use dry chemical or carbon dioxide. Use water on combustibles burning in vicinity of this material. For large fires flood fire area with water from a distance. Do not get solid streams of water on material. Move container from area if you can do so without risk. (EPA, 1998)

Non-Fire Response

Keep material out of water sources and sewers. Build dikes to contain flow as necessary. Neutralize spilled material with crushed limestone, soda ash, or lime. Apply water spray or mist to knock down vapors. Vapor knockdown water is corrosive or toxic and should be diked for containment. Land spill: Dig a pit, pond, lagoon, holding area to contain liquid or solid material. Dike surface flow using soil, sand bags, foamed polyurethane, or foamed concrete. Absorb bulk liquid with fly ash or cement powder. Neutralize with agricultural lime (CaO), crushed limestone (CaCO3) or sodium bicarbonate (NaHCO3). Water spill: Neutralize with agricultural lime (CaO), crushed limestone (CaCO3), or sodium bicarbonate (NaHCO3). (AAR, 2003)

Protective Clothing

Skin: Wear appropriate personal protective clothing to prevent skin contact.

Eyes: Wear appropriate eye protection to prevent eye contact.

Wash skin: The worker should immediately wash the skin when it becomes contaminated.

Remove: Work clothing that becomes wet or significantly contaminated should be removed and replaced.

Report

Change: No recommendation is made specifying the need for the worker to change clothing after the work shift.

Provide: Eyewash fountains should be provided (when concentration is >1%) in areas where there is any possibility that workers could be exposed to the substance; this is irrespective of the recommendation involving the wearing of eye protection. Facilities for quickly drenching the body should be provided (when concentration is >1%) within the immediate work area for emergency use where there is a possibility of exposure. [Note: It is intended that these facilities provide a sufficient quantity or flow of water to quickly remove the substance from any body areas likely to be exposed. The actual determination of what constitutes an adequate quick drench facility depends on the specific circumstances. In certain instances, a deluge shower should be readily available, whereas in others, the availability of water from a sink or hose could be considered adequate.] (NIOSH, 2003)

_____Dupont Average Standardized Breakthrough Times_____ (for SULFURIC ACID)

Tychem® BR greater than 480 min. (concentration: 95+%) Tychem® Butyl 160 min. (concentration: 98%) Tychem® CPE greater than 480 min. (concentration: 95+%) Tychem® CPF1 greater than 480 min. (concentration: 98%) Tychem[®] CPF2 greater than 480 min. (concentration: 98%) Tychem[®] CPF3 greater than 480 min. (concentration: 98%) Tychem[®] CPF4 greater than 480 min. (concentration: 98%) Tychem® F greater than 480 min. (concentration: 95+%) Tychem[®] LV greater than 480 min. (concentration: 95+%) Tychem[®] PVC 150 min. (concentration: 95+%) Tychem® QC greater than 480 min. (concentration: 95+%) Tychem[®] QC for Corrections greater than 480 min. (concentration: 95+%) Tychem® Reflector® greater than 480 min. (concentration: 93%) Tychem[®] Responder[®] greater than 480 min. (concentration: 95%) Tychem[®] Responder[®] CSM greater than 480 min. (concentration: 95%) Tychem[®] SL greater than 480 min. (concentration: 95+%) Tychem® ThermoPro greater than 480* min. (concentration: 95-98%) Tychem® TK greater than 480 min. (concentration: 95+%) (DuPont, 2008)

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First Aid

Caution: Sulfuric acid is extremely corrosive. Caution is advised.

Signs and Symptoms of Acute Sulfuric Acid Exposure: Signs and symptoms of acute ingestion of sulfuric acid may be severe and include salivation, intense thirst, difficulty in swallowing, pain, and shock. Oral, esophageal, and stomach burns are common. Vomitus generally has a coffee-ground appearance. The potential for circulatory collapse is high following ingestion

Report

of sulfuric acid. Acute inhalation exposure may result in sneezing, hoarseness, choking, laryngitis, dyspnea (shortness of breath), respiratory tract irritation, and chest pain. Bleeding of nose and gums, ulceration of the nasal and oral mucosa, pulmonary edema, chronic bronchitis, and pneumonia may also occur. If the eyes have come in contact with sulfuric acid, irritation, pain, swelling, corneal erosion, and blindness may result. Dermal exposure may result in severe burns, pain, and dermatitis (red, inflamed skin).

Emergency Life-Support Procedures: Acute exposure to sulfuric acid may require decontamination and life support for the victims. Emergency personnel should wear protective clothing appropriate to the type and degree of contamination. Airpurifying or supplied-air respiratory equipment should also be worn, as necessary. Rescue vehicles should carry supplies such as plastic sheeting and disposable plastic bags to assist in preventing spread of contamination.

Inhalation Exposure:

1. Move victims to fresh air. Emergency personnel should avoid self-exposure to sulfuric acid.

2. Evaluate vital signs including pulse and respiratory rate, and note any trauma. If no pulse is detected, provide CPR. If not breathing, provide artificial respiration. If breathing is labored, administer oxygen or other respiratory support.

3. Obtain authorization and/or further instructions from the local hospital for administration of an antidote or performance of other invasive procedures.

4. RUSH to a health care facility.

Dermal/Eye Exposure:

1. Remove victims from exposure. Emergency personnel should avoid self- exposure to sulfuric acid.

Evaluate vital signs including pulse and respiratory rate, and note any trauma. If no pulse is detected, provide CPR. If not breathing, provide artificial respiration. If breathing is labored, administer oxygen or other respiratory support.
 Remove contaminated clothing as soon as possible.

4. If eye exposure has occurred, eyes must be flushed with lukewarm water for at least 15 minutes.

5. Wash exposed skin areas THOROUGHLY with soap and water.

6. Obtain authorization and/or further instructions from the local hospital for administration of an antidote or performance of other invasive procedures.

7. RUSH to a health care facility.

Ingestion Exposure:

1. Evaluate vital signs including pulse and respiratory rate, and note any trauma. If no pulse is detected, provide CPR. If not breathing, provide artificial respiration. If breathing is labored, administer oxygen or other respiratory support.

2. Rinse mouth with large amounts of water. Instruct victims not to swallow the water.

3. DO NOT induce vomiting or attempt to neutralize!

4. Obtain authorization and/or further instructions from the local hospital for administration of an antidote or performance of other invasive procedures.

5. Activated charcoal is of no value.

6. Give the victims water or milk: children up to 1 year old, 125 mL (4 oz or 1/2 cup); children 1 to 12 years old, 200 mL (6 oz or 3/4 cup); adults, 250 mL (8 oz or 1 cup). Water or milk should be given only if victims are conscious and alert.

7. RUSH to a health care facility. (EPA, 1998)

Physical Properties

Molecular Formula: H2SO4

Flash Point: data unavailable
Lower Explosive Limit: data unavailable
Upper Explosive Limit: data unavailable
Autoignition Temperature: Not flammable (USCG, 1999)
Melting Point: 50.65 ° F (EPA, 1998)
Vapor Pressure: 1.0 mm Hg at 294.8 ° F (EPA, 1998)
Vapor Density: 3.4 (EPA, 1998)
Specific Gravity: 1.841 (EPA, 1998)
Boiling Point: 554.0 ° F at 760 mm Hg (EPA, 1998)

Report

Water Solubility: Miscible (NIOSH, 2003)

AEGL: data unavailable

ERPG-1

2.0 mg/m3 (AIHA, 2008) ERPG-2 10.0 mg/m3 ERPG-3 30.0 mg/m3

TEEL: data unavailable

IDLH: 15.0 mg/m3 (NIOSH, 2003)

Regulatory Information

Regulatory Names: SULFURIC ACID (AEROSOL FORMS ONLY) SULFURIC ACID

CAA RMP: Not a regulated chemical.

CERCLA: Regulated chemical with a Reportable Quantity of 1000 pounds.

EHS (EPCRA 302): Regulated chemical with a Reportable Quantity of 1000 pounds and a Threshold Planning Quantity of 1000 pounds.

TRI (EPCRA 313): Not a regulated chemical.

RCRA Chemical Code: none

Alternate Chemical Names

- ACIDE SULFURIQUE (DOT FRENCH)
- ACIDE SULFURIQUE, CONTENANT PLUS DE 51% D'ACIDE (DOT FRENCH)
- ACIDO SULFÚRICO (DOT SPANISH)
- ACIDO SULFÚRICO, CON MÁS DEL 51% DE ÁCIDO (DOT SPANISH)
- BATTERY ACID
- BOV
- CHAMBER ACID
- CONTACT ACID
- DIHYDROGEN SULFATE
- DIPPING ACID
- FERTILIZER ACID
- HYDROGEN SULFATE
- MATTING ACID
- NORDHAUSEN ACID
- OIL OF VITRIOL
- SPENT SULFURIC ACID
- SPIRIT OF SULFUR
- SULFURIC ACID (AEROSOL FORMS ONLY)
- SULFURIC ACID (AQUEOUS)
- SULFURIC ACID, WITH MORE THAN 51% ACID
- SULPHURIC ACID
- SULPHURIC ACID, WITH MORE THAN 51% ACID
- VITRIOL BROWN OIL

10/29/2009

APPENDIX 3: CAMEO CALCULATIONS

Edit Screening & Scena	arios	Last Modified	4/30/2018
Facility / Route Name Ind Chemical ANHYDROUS		CAS 766	64-41-7
Scenario Name Indianhe	ad Foodservice - Worst	Case	
In Inventory	In Transit	Shipper	
Scenario Desci	ription	Notes	
	entration Level of Conce		1
1	h legrees measured clock example: 015, 315,270	Otac	en country
Risk Assessment Risk Consequences Overall Risk	Severity of	of described accident occurrin consequence to people n of probability and severity o	- -
E	stimate Threat Zone Radius:	<mark>≥ 10 miles</mark>	
		Save Changes	Cancel

Edit Screening & Scenarios		La	ast Modified 4/30/2018			
Facility / Route Name Indianhead Chemical ANHYDROUS AMMON			CAS 7664-41-7			
Scenario Name Indianhead Food	Scenario Name Indianhead Foodservice - Ammonia - Reevaluation					
In Inventory	In Transit	[Shipper			
Scenario Description			Notes			
Concentration 100	Level of Conce		C Liquid Solid sq ft gm/m ³			
	neasured clockv e: 015, 315,270)		ghness open country I			
Risk Assessment Risk Probability of described accident occurring Consequences Severity of consequence to people Overall Risk Combination of probability and severity of consequence						
Estimate Th	reat Zone Radius:	1.2 miles				
		Save Char	nges Cancel			

	Screening & Scenarios Last Modified 5/3/2018
	Facility / Route Name Indianhead Foodservice Chemical SULFURIC ACID CAS 7664-93-9
	Scenario Name Indianhead Foodservice - Sulfuric Acid - Worst Case Datasheet Datasheet
	X In Inventory In Transit Shipper
$\left[\right]$	Scenario Description Notes
	Amount Released 262 pounds Physical State Gas Concentration 100 weight % Release Duration minutes If stored in container with a dike, enter surface area within dike: sq ft Atmospheric Concentration Level of Concern 0.008 gm/m ³ LOC Description Greenbook LOC Weather Information Wind Speed 3.35 mph Ground Roughness open country Wind From in degrees measured clockwise from 0 N. Stability Class F (for example: 015, 315, 270)
	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 5/3/2018
Facility / Route Name Indianhead Chemical SULFURIC ACID	d Foodservice CAS 7664-93-9
Scenario Name Indianhead Foo	odservice - Sulfuric Acid - Reevaluation Datasheet
In Inventory	In Transit Shipper
Scenario Description	Notes
Concentration 100 v	
	Ground Roughness open country a measured clockwise from 0 N. Stability Class D ole: 015, 315, 270)
Risk Assessment Risk Consequences Overall Risk	Probability of described accident occurring Severity of consequence to people Combination of probability and severity of consequence
Threat	Zone Radius < .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. : 143371
Facility Name: Xcel Energy Substation
Facility Address: Old Wells Road, 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.

Tina M. Ball	Ta	M.	Sall
Facility Coordinat	or	1	

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

County Emergency Management Director

Date	

Date

Date

5-21-2021

Date

WEM / SERC ACCEPTANCE:

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

WEM Regional Director

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	
Facility ID No. : 143371	
Facility Name: Xcel Energy Substation	
Facility Address: Old Wells Road, 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
8)	Special facilities affected	7
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10)	Special considerations	7
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WISCONSIN EMERGENCY MANAGEMENT PO BOX 7865 MADISON WI 53707-7865 §323.60 WI Stats POW FFY 2021 Page 2 of 3

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

COUNTY: Eau Claire

NEW				
Facility Facility	[,] ID N ' Nam	o. : 143371 le: Xcel Energy Substation		
Facility	Add	ess: Old Wells Road, Eau Claire, Wisconsin 5470	3	
12)	Dist	ribution list:		
	Fac	ility		
	Fire	Department of jurisdiction		
	Wis	consin Emergency Management- Region Office		
	Designated Hazmat team			
	County Emergency Management Office			
Adjacent County Emergency Management Office when impacted by vulnerability zone			pacted by vulnerability zone	
13)	13) Required Attachments			
	Α.	Vulnerability Zone map highlighting special facilities	8	
	В.	Safety Data Sheet (SDS) for each EHS	10 - 16	
	C.	Vulnerability Zone Calculations	17 - 18	

D. Transportation route(s) map



Xcel Energy Substation Facility Off-Site Emergency Response Plan





Facility #99570 Xcel Energy Substation Old Wells Road (Adjacent to Domer Park) Eau Claire, Wisconsin 54703 Eau Claire County Emergency Management 721 Oxford Avenue, Suite 3344 Eau Claire, Wisconsin 54703

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Hazardous Substances	
Resources/Support Available	
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Facility Layout	Appendix 1
Extremely Hazardous Substances SDS	Appendix 2
CAMEO Calculations	Appendix 3

RECORD OF CHANGES

Change	Date Changed	Change Made By
Created	1/2018	JA
Updated	3/13/2018	JA
Updated	5/2021	SS

SECTION 1: FACILITY INFORMATION

A. Address

Xcel Energy Substation Old Wells Road (Adjacent to Domer Park) Eau Claire, Wisconsin 54703

B. Facility ID

99570

C. Map



D. Emergency Contacts

Primary: Tina Ball Phone: 715-737-1346 24 Hour: 715-577-0003 christine.m.ball@xcelenergy.com

Secondary:

Northern States Power System Operations Phone: 715-737-2610 24 Hour: 715-737-2618 christine.m.ball@xcelenergy.com

E. Extremely Hazardous Substances

Sulfuric Acid	Inventory:	Storage:	
Chemical ID: 403724	Max Daily Amount (lbs): 1317	Container: Lead-Acid Batteries	
CAS: 7664939	Ave. Daily Amount (lbs): 1317	Location: In Substation House	
ERG: Guide 137	Number of days on site: 365		

F. Hazardous Substances

Not applicable

G. Resources/Support Available

The batteries are kept in coated steel containment structures with spill pads and a neutralizing agent. A chemical-resistant apron, gloves and face shield are provided in each house. A loss of DC power or AC power to the charger signaling a potential loss of acid from a battery would result in an alarm being sent to Xcel Energy's dispatch center located at 1414 W. Hamilton Avenue in Eau Claire. Dispatch would send a troubleman to the substation to investigate the alarm.

H. Hazard Analysis

Xcel Energy operates an unmanned electrical substation facility. The substation is part of the electrical generation, transmission, and distribution system. Sulfuric acid is used in lead batteries stored in three Substation Houses. The total quantity of Sulfuric Acid on site is 1,317 lbs. The evacuation radius for sulfuric acid is less than 0.1 mile.

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 evacuation radius, as calculated by CAMEO software for a 1,317 pound Sulfuric Acid release, was determined to be less than 0.1 miles. The threat would not leave the property, and is expected to affect 0 homes. The population in this area is estimated to be 0.

Reevaluation of a 1,317 pound release of Sulfuric Acid using more realistic variables in the CAMEO model yields an evacuation radius of less than 0.1 miles. The population in this area is estimated to be 0.

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

I. Access to Facility

Access to the facility is controlled via gated drive off of Old Wells Road. Additionally, each storage house is located within gate-controlled areas.

SECTION 2: OUTSIDE RESOURCES

A. Primary Response Agencies

Fire:	EMS:	Law:	Emergency Management:
Eau Claire Fire Dept.	Eau Claire Fire Dept.	City of Eau Claire Police	Eau Claire Office of
Eau Claire, WI 54701	Eau Claire, WI 54701	721 Oxford Avenue	Emergency Management
Phone: 715-834-6868	Phone: 715-834-6868	Eau Claire, WI 54703	721 Oxford Avenue
		Phone: 715-839-4972	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.

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.

A. General Information and Assumptions

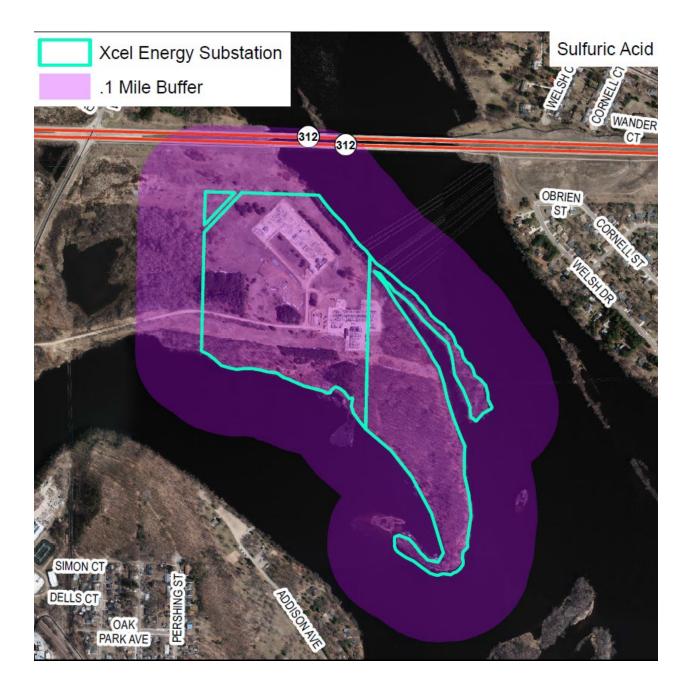
The vulnerability zones set forth in the Plan are based on the EPA Technical Guidance for Hazards Analysis. The zones are based on a credible worst-case scenario and identify the potential area for impact should an air-borne release of a single EHS chemical occur.

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 preemergency 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.

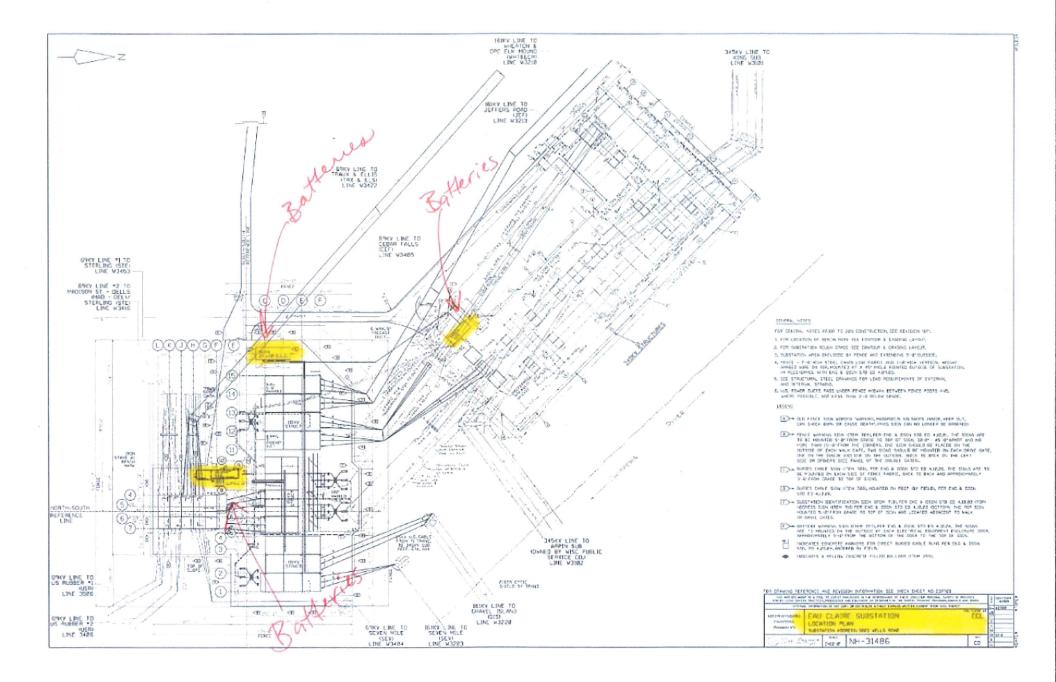
Further, fire departments that would respond to an incident at this facility are strongly encouraged to meet with facility representatives to determine ways to minimize an event at the facility and to determine what additional information and factors should be taken into consideration in the event of 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 Not applicable.
- C. Vulnerability Zone Map See map.



APPENDIX 1: FACILITY LAYOUT



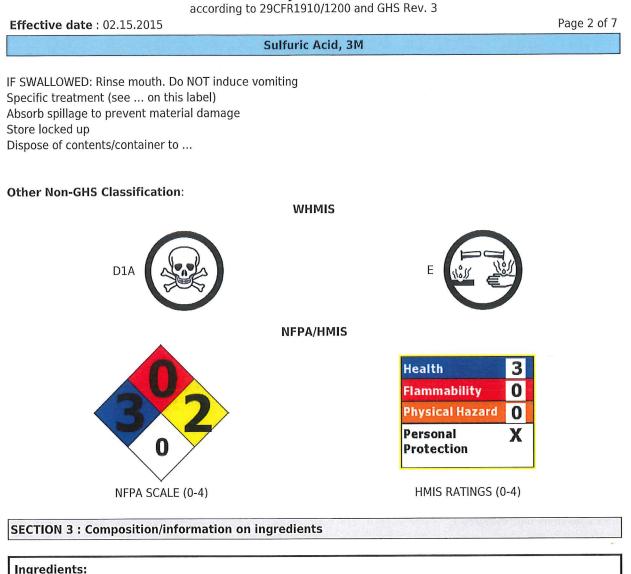
Safety Data Sheet according to 29CFR1910/1200 and GHS Rev. 3

Effective date : 02.15.2015

Page 1 of 7

Su	Ifu	ric	Acid	3M
		IIC.	ALIU	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

SECTION 1 : Identification of the substance/mixture a	nd of the supplier
Product name :	Sulfuric Acid, 3M
Manufacturer/Supplier Trade name:	
Manufacturer/Supplier Article number:	S25899
Recommended uses of the product and uses restriction	ons on use:
Manufacturer Details:	
AquaPhoenix Scientific 9 Barnhart Drive, Hanover, PA 17331	
Supplier Details:	
Fisher Science Education 15 Jet View Drive, Rochester, NY 14624	
Emergency telephone number:	
Fisher Science Education Emergency Telephone No.: 80	0-535-5053
SECTION 2 : Hazards identification	
Classification of the substance or mixture:	
Health hazard Skin corrosion, category 1A Serious eye damage, category 1 Corrosive to metals, category 1 skin corr./irrit. 1A Corrosive to metals. 1 Eye corr. 1	
Signal word :Danger	
Hazard statements: May be corrosive to metals Causes severe skin burns and eye damage Causes serious eye damage Precautionary statements: If medical advice is needed, have product container or label a Keep out of reach of children Read label before use Wear protective gloves/protective clothing/eye protection/fac Wash thoroughly after handling Do not breathe dust/fume/gas/mist/vapours/spray Keep only in original container IF INHALED: Remove victim to fresh air and keep at rest in a IF IN EYES: Rinse cautiously with water for several minutes. R Continue rinsing Immediately call a POISON CENTER or doctor/physician IF ON SKIN (or hair): Remove/Take off immediately all contain Wash contaminated clothing before reuse	e protection position comfortable for breathing lemove contact lenses if present and easy to do.



Ingredients:			
CAS 7664-93-9	Sulfuric Acid, ACS	31.004 %	
CAS 7732-18-5	Water	68.996 %	
Percentages are by weight			

SECTION 4 : First aid measures

Description of first aid measures

After inhalation: Loosen clothing as necessary and position individual in a comfortable position. Move exposed to fresh air. Give artificial respiration if necessary. If breathing is difficult give oxygen. Get medical assistance if cough or other symptoms appear.

After skin contact: Rinse/flush exposed skin gently using soap and water for 15-20 minutes. Seek medical advice if discomfort or irritation persists.

After eye contact: Protect unexposed eye.Rinse/flush exposed eye(s) gently using water for 15-20 minutes.Remove contact lens(es) if able to do so during rinsing.Seek medical attention if irritation persists or if concerned.

After swallowing: Rinse mouth thoroughly. Do not induce vomiting. Seek medical attention if irritation, discomfort, or vomiting persists.

Most important symptoms and effects, both acute and delayed:

according to 29CFR1910/1200 and GHS Rev. 3

Effective date: 02.15.2015

Page 3 of 7

Sulfuric Acid, 3M

Irritation.Headache.Nausea.Shortness of breath.;

Indication of any immediate medical attention and special treatment needed:

If seeking medical attention provide SDS document to physician. Physician should treat symptomatically.

SECTION 5 : Firefighting measures

Extinguishing media

Suitable extinguishing agents: Use water, dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam.

For safety reasons unsuitable extinguishing agents:

Special hazards arising from the substance or mixture:

Thermal decomposition can lead to release of irritating gases and vapors.

Advice for firefighters:

Protective equipment: Wear protective eyeware, gloves, and clothing. Refer to Section 8.Use NIOSHapproved respiratory protection/breathing apparatus.

Additional information (precautions): Avoid inhaling gases, fumes, dust, mist, vapor, and aerosols. Avoid contact with skin, eyes, and clothing.

SECTION 6 : Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation. Ensure that air-handling systems are operational.

Environmental precautions:

Should not be released into environment. Prevent from reaching drains, sewer, or waterway.

Methods and material for containment and cleaning up:

Wear protective eyeware, gloves, and clothing. Refer to Section 8.Always obey local regulations.Containerize for disposal. Refer to Section 13.If necessary use trained response staff or contractor. Evacuate personnel to safe areas. Keep in suitable closed containers for disposal.

Reference to other sections:

SECTION 7 : Handling and storage

Precautions for safe handling:

Avoid contact with skin, eyes, and clothing.Follow good hygiene procedures when handling chemical materials. Refer to Section 8.Follow proper disposal methods. Refer to Section 13.Do not eat, drink, smoke, or use personal products when handling chemical substances.

Conditions for safe storage, including any incompatibilities:

Store in a cool location. Keep away from food and beverages.Protect from freezing and physical damage.Provide ventilation for containers. Keep container tightly sealed.Store away from incompatible materials.

SECTION 8 : Exposure controls/personal protection





Safety Data Sheet according to 29CFR1910/1200 and GHS Rev. 3

Effective date : 02.15.2015	Page 4 of 7			
Sulfuric Acid, 3M				
L				
Control Parameters:	7664-93-9, Sulfuric Acid, ACS, OSHA PEL: 1mg/m3 7664-93-9, Sulfuric Acid, ACS, ACGIH TLV: 1 mg/m3			
Appropriate Engineering controls:	Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.			
Respiratory protection:	Not required under normal conditions of use. Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. When necessary use NIOSH approved breathing equipment.			
Protection of skin:	Select glove material impermeable and resistant to the substance.Select glove material based on rates of diffusion and degradation. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.Use proper glove removal technique without touching outer surface. Avoid skin contact with used gloves.Wear protective clothing.			
Eye protection:	Wear equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).Safety glasses or goggles are appropriate eye protection.			
General hygienic measures:	Perform routine housekeeping. Wash hands before breaks and at the end of work. Avoid contact with skin, eyes, and clothing.Before wearing wash contaminated clothing.			

SECTION 9	Physical and	chemical	properties

Appearance (physical state,color):	Clear, colorless liquid.	Explosion limit lower: Explosion limit upper:	Not Determined Not Determined
Odor:	Odorless	Vapor pressure:	<0.00120mmHg
Odor threshold:	Not Determined	Vapor density:	Not Determined
pH-value:	< 0.03	Relative density:	Not Determined
Melting/Freezing point:	11C	Solubilities:	Miscible
Boiling point/Boiling range:	105 - 325C	Partition coefficient (n- octanol/water):	Not Determined
Flash point (closed cup):	Not Determined	Auto/Self-ignition temperature:	Not Determined
Evaporation rate:	Not Determined	Decomposition temperature:	Not Determined
Flammability (solid,gaseous):	Not Determined	Viscosity:	a. Kinematic:Not Determined b. Dynamic: Not Determined
Density: Not Determined			

SECTION 10 : Stability and reactivity

Reactivity: Nonreactive under normal conditions. Chemical stability: Stable under normal conditions.

Possible hazardous reactions:None under normal processing.

according to 29CFR1910/1200 and GHS Rev. 3

Effective date : 02.15.2015

Page 5 of 7

Sulfuric Acid, 3M

Conditions to avoid: Incompatible materials.

Incompatible materials: Organics. Metals. Chlorates. Alkalines. Carbides. Fulminates. Reducing agents. Nitrates. Acetic acid. Oxidizing agents

Hazardous decomposition products: Oxides of sulfur.

SECTION 11 : Toxicological information

Acute Toxicity:				
Inhalation:	510 mg/m3 2 h	Inhalation LC50 Rat		
Oral:	2140 mg/kg	Oral LD50 Rat		
Chronic Toxicity: No	additional information.	-		
Corrosion Irritation: No additional information.				
Sensitization: No additional information.				
Single Target Organ (STOT):		No additional information.		
Numerical Measures:		No additional information.		
Carcinogenicity:		No additional information.		
Mutagenicity:		No additional information.		
Reproductive Toxicity:		No additional information.		

SECTION 12 : Ecological information

Ecotoxicity

Freshwater Fish: 96 Hr LC50 Brachydanio rerio: >500 mg/L [static] Fish: LC50 - Gambusia affinis (Mosquito fish) - 42 mg/l - 96 h

Invertebrates: EC50 - Daphnia magna (Water flea) - 29 mg/l - 24 h

Persistence and degradability: Bioaccumulative potential: Mobility in soil: Other adverse effects:

SECTION 13 : Disposal considerations

Waste disposal recommendations:

Contact a licensed professional waste disposal service to dispose of this material.Dispose of empty containers as unused product.It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11). Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations. Ensure complete and accurate classification.

SECTION 14 : Transport information

UN-Number

1830

according to 29CFR1910/1200 and GHS Rev. 3

Effective date : 02.15.2015

Page 6 of 7

Sulfuric Acid, 3M

UN proper shipping name

Sulfuric Acid Solution

Transport hazard class(es)

Class: 8 Corrosive substances

Packing group:ll Environmental hazard: Transport in bulk: Special precautions for user:

SECTION 15 : Regulatory information

United States (USA)

SARA Section 311/312 (Specific toxic chemical listings):

Acute, Chronic

SARA Section 313 (Specific toxic chemical listings):

7664-93-9 Sulfuric Acid

RCRA (hazardous waste code):

None of the ingredients is listed

TSCA (Toxic Substances Control Act):

All ingredients are listed.

CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):

7664-93-9 Sulfuric Acid 1000 lbs

Proposition 65 (California):

Chemicals known to cause cancer:

None of the ingredients is listed

Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed

Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed

Chemicals known to cause developmental toxicity:

None of the ingredients is listed

Canada

Canadian Domestic Substances List (DSL):

All ingredients are listed.

Canadian NPRI Ingredient Disclosure list (limit 0.1%):

None of the ingredients is listed

Canadian NPRI Ingredient Disclosure list (limit 1%):

None of the ingredients is listed

SECTION 16 : Other information

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the

according to 29CFR1910/1200 and GHS Rev. 3

Effective date : 02.15.2015

Page 7 of 7

Sulfuric Acid, 3M

SDS contains all the information required by the Controlled Products Regulations.Note:. The responsibility to provide a safe workplace remains with the user.The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment.The information contained herein is, to the best of our knowledge and belief, accurate.However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material.It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

GHS Full Text Phrases:

Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods PNEC: Predicted No-Effect Concentration (REACH) CFR: Code of Federal Regulations (USA) SARA: Superfund Amendments and Reauthorization Act (USA) RCRA: Resource Conservation and Recovery Act (USA) TSCA: Toxic Substances Control Act (USA) NPRI: National Pollutant Release Inventory (Canada) DOT: US Department of Transportation IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of Chemicals ACGIH: American Conference of Governmental Industrial Hygienists CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) DNEL: Derived No-Effect Level (REACH)

Effective date : 02.15.2015 **Last updated** : 03.19.2015

APPENDIX 3: CAMEO CALCULATIONS

Screening & Scenarios		Last Modified 2/16/2018
Facility / Route Name Xcel E	Energy	
Chemical Sulfuric Acid		CAS 7664-93-9
Scenario Name Xcel Energ	y - Sulfuric Acid: Worst Cas	e Datasheet
X In Inventory	In Transit	Shipper
Scenario Descript	ion	Notes
Amount Released 1317	pounds	Physical State Gas
Concentration 100	weight %	Liquid Ambient
Release Duration	minutes	
If stored in container with a d	like, enter surface area with	nin dike: sq ft
Atmospheric Concent	tration Level of Concern	28 gm/m ³
Weather Information		
Wind Speed 3.35 mph		Ground Roughness open country
100000000000000000000000000000000000000	rees measured clockwise f	
(for ex	ample: 015, 315, 270)	
Risk Assessment Risk	Probability of des	cribed accident occurring
Consequences	Severity of conse	quence to people
Overall Risk	Combination of pr	obability and severity of consequence
Thi	reat Zone Radius < .1 m	iles Show on Map

S	Creening & Scenarios Last Modified 2/16/2018
	Facility / Route Name Xcel Energy Chemical Sulfuric Acid
	Scenario Name Xcel Energy - Sulfuric Acid: Reevaluation Datasheet
L	X In Inventory □ In Transit □ Shipper
	Scenario Description Notes
	Amount Released 1317 pounds Physical State Gas Concentration 100 weight % Release Duration 10 minutes If stored in container with a dike, enter surface area within dike: sq ft Atmospheric Concentration Level of Concern .008 gm/m ³ LOC Description Greenbook LOC Weather Information Wind Speed 11.9 mph Ground Roughness open country Wind From in degrees measured clockwise from 0 N. Stability Class D
	(for example: 015, 315, 270) Risk Assessment Risk Probability of described accident occurring Consequences Severity of consequence to people Overall Risk Combination of probability and severity of consequence
L	Threat Zone Radius < .1 miles Show on Map

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

COUNTY: Eau Claire
Facility ID No. : 143371
Facility Name: Schuman Cheese
Facility Address: 120 Brickyard Street, Fall Creek, Wisconsin 54742

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.

Nate Smith	6/8/2021	
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

County Emergency Management Director

WEM / SERC ACCEPTANCE:

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

WEM Regional Director

NOTE: Facility Off-Site Plan Review Guide attached: Yes 🖌 No 🗌

WISCONSIN EMERGENCY MANAGEMENT PO BOX 7865 MADISON WI 53707-7865 §323.60 WI Stats POW FFY 2021 Page 1 of 3

Date

Date

Date

)ate

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

COUNTY: Eau Claire		
NEW UPDATE FINAL UPDATE		
Facility ID No. : 143371		
Facility Name: Schuman Cheese		
Facility Address: 120 Brickyard Street, Fall Creek, Wisconsin 54742		

FACILITY OFF-SITE PLAN REVIEW GUIDE

<u>EPCR</u>	A Facility Off-Site Plan Elements	Page Number Reference	
1)	The facility identification with address.	4	
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3)	Extremely Hazardous Substances (EHS) chemicals Identified with CAS numbers and maximum amount	4	
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5)	Support and resources available from facility	5	
6)	General Information / Assumptions (Disclaimer)	7	
7)	Hazard analysis summary	5	
8)	Special facilities affected	7	
9)	Population protection	7	
10)	Special considerations	10-11	
11)	Site Plan / Facility Layout	12 (Appendix 1)	
	WISCONSIN EMERGENCY MANAGEMENT §323.60 WI Stats PO BOX 7865 POW FFY 2021		

MADISON WI 53707-7865

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

COUN	Y: Eau Claire		
NEW	UPDATE FINAL UPDATE		
Facility	D No. : 143371		
Facility	Name: Schuman Cheese		
Facility	Address: 120 Brickyard Street, Fall Creek, Wisconsin 54742		
12)	Distribution list:		
12)	Distribution list:		

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

Α.	Vulnerability Zone map highlighting special facilities	8 - 9
В.	Safety Data Sheet (SDS) for each EHS	13 - 25
C.	Vulnerability Zone Calculations	26 - 27
D	Transmission	

D. Transportation route(s) map

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Schuman Cheese d/b/a Imperia Foods Inc. Fall Creek (Formerly Greenwood Packaging) Facility Off-Site Emergency Response Plan



Facility #201310 Schuman Cheese 120 Brickyard St Fall Creek, Wisconsin 54742



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	2/16/18	T. Esh
Edited	2/26/18	J. Allen
Edited (Facility requested changes)	3/19/18	J. Allen
Updated	5/03/21	S. Simmons

SECTION 1: FACILITY INFORMATION

A. Address

Schuman Cheese 120 Brickyard Street Fall Creek, Wisconsin 54742

B. Facility ID

201310

C. Map



D. Emergency Contacts

Primary: Nate Smith Phone: 715-318-6504 24 Hour: 715-514-7324 nsmith@schumancheese.com <u>Secondary:</u> Samantha Erickson Phone: 715-318-6480 24 Hour: 715-828-8145 serickson@schumancheese.com

E. Extremely Hazardous Substances

Ammonia	Inventory:	Storage:
Chemical ID: 420155	Max Daily Amount (lbs): 9856	Container: Above Ground Tank
CAS: 7664417	Ave. Daily Amount (lbs): 9856	Location: Ammonia Room SW corner
ERG: Guide 125	Number of days on site: 365	of plant, segregated from rest of
		plant. May be piped to the
		evaporator unit

F. Hazardous Substances

Carbon Dioxide	Inventory:	Storage:
Chemical ID: 420154	Max Daily Amount (lbs): 60000	Container: Above Ground Tank
CAS: 124389	Ave. Daily Amount (lbs): 40000	Location: Outside Building East Side
ERG: Guide 120	Number of days on site: 365	

G. Resources/Support Available

Schuman Cheese does not maintain any personal protective equipment on-site in the event of a leak. They have a contract in place with a vendor to clean up leaks and plan to utilize emergency services as needed. There are ammonia monitors and an auto dialer in place to notify the Maintenance Manager in the event a monitor is tripped. Maintenance Manager is able to remotely log in as needed.

H. Hazard Analysis

Schuman Cheese is a national importer of cheeses, primarily from Italy. There are an average of thirty (30) employees on site each shift from Sunday night-Friday night. During the day, there will likely be closer to forty (40) employees on site. The size of the building is 54,208 square feet. The cooling system for the facility uses Anhydrous Ammonia. In the screening scenarios as stated for Anhydrous Ammonia below, the evacuation radius for anhydrous ammonia is 6.2 miles.

The hazard analysis determined this Anhydrous Ammonia to be the major chemical hazard present at the facility. It is used for cooling. The chemical is located in the southwest corner of the plant, separate from the rest of the plant. Piping for the Anhydrous Ammonia is located above the roof of the building leading to the evaporators and minimally inside the building. There are two exhaust fans in the motor room that will turn on automatically to disperse any system release of Anhydrous Ammonia. A leak of Anhydrous Ammonia in the main containment area would be detected by equipment that is monitored by on-site monitors (see Section 5: Note 1). If a leak were to be detected the monitors would alert company personnel so they could take appropriate action. On site, strobes and siren annunciate the detected release of a chemical. The facility reports 9,856 pounds of Anhydrous Ammonia on site. The modeled evacuation area is based on worst case scenario for Anhydrous Ammonia (2,464 lbs.) ten minutes after a catastrophic failure of containment. The largest containment of Anhydrous Ammonia in the cooling system is the receiver. This is the amount of material used in the worst-case scenario.

The greatest potential for release would be the failure of "receiver units" which contain the greatest volume of material. Anhydrous Ammonia is delivered to the facility by truck. The maximum shipment is 2,500 pounds (see Section 5: Note 2).

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 evacuation radius, as calculated by CAMEO software for a 2,464 pound Anhydrous Ammonia release, was determined to be 6.2 miles. It is estimated that 4,553 people may be affected by the release (1,836 housing units).

Reevaluation of a 2,464 pound release of Anhydrous Ammonia using more realistic variables in the CAMEO model yields an evacuation radius of .7 miles. The population in this area is estimated to be 398 (159 housing units).

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

I. Access to Facility

The local fire department has keys to the facility to gain access.

SECTION 2: OUTSIDE RESOURCES

A. Primary Response Agencies

Fire:	EMS:	Law:	Emergency Management:
Fall Creek Area Fire	Eau Claire Fire	Fall Creek Police	Eau Claire Office of
District	Department	Department	Emergency Management
530 E. Lincoln Ave	Eau Claire, WI 54701	530 E. Lincoln Ave	721 Oxford Avenue
Eau Claire, WI 54742	Phone: 715-834-6868	Fall Creek, WI 54742	Suite 3344
Phone: 715-834-6868		Phone: 715-877-3231	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.

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

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 preemergency 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 (Note 3).

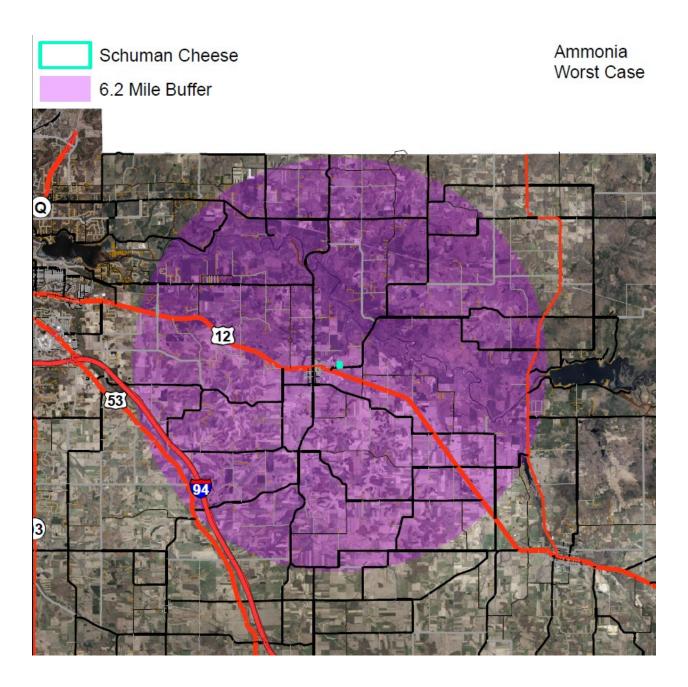
The field incident commander shall determine the actual response to an incident and the affected area may vary from the planning vulnerability zone identified in this Plan. Depending on wind speed and direction, the amount of material released and other pertinent factors, the ACTUAL vulnerability zone 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.

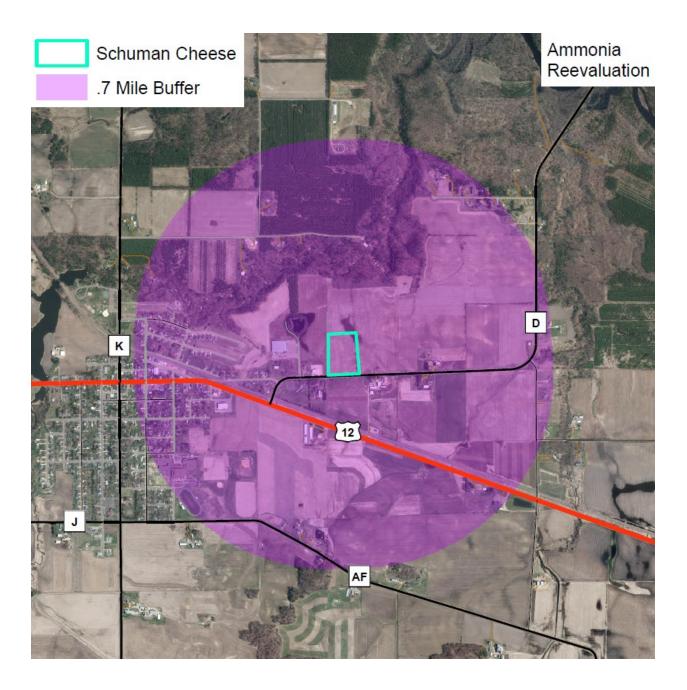
B. Special Facilities Affected

Fall Creek School District (1 mi SW) St. Paul's Little Lamb Childcare and Preschool (1.3 mi SW) Tiny Tots Playhouse (.9 mi West) Wildlands Charter School (4.9 mi N)

C. Vulnerability Zone Map

See maps





SECTION 5: SPECIAL FACILITY NOTATIONS

Note 1: There are two exhaust fans in the motor room that will turn on automatically to disperse any system release of Anhydrous Ammonia. A leak of Anhydrous Ammonia in the main containment area would be detected by equipment that is monitored by on-site monitors.

All evaporators are located inside except the one that is located inside of the air makeup unit.

Available safety devices on the system:

- 1. Ammonia monitors in the following areas:
 - a. Main compressor room
 - **b.** Finish Cooler (south west cooler)
 - c. Freezer (north west cooler)
 - d. Raw Cooler (north east cooler)
 - e. Process AMU
- 2. System automatically shuts down if ammonia sensors are tripped and the Maintenance Manager is contacted.
- 3. Fans and louvers are automatically turned on and evacuate the air in the compressor room through the roof.
- **4.** Ammonia system control/system warning box on the outside of the compressor room. Items that can be controlled from there are:
 - a. Emergency stop for whole system. (Under glass. Glass needs to be broken to get to it with the small hammer that is hanging on the box)
 - **b.** Fault lights
 - i. Red for system fault
 - ii. Amber for ammonia leak
 - iii. Auditable alarm
 - c. Ability to turn motor room exhaust fans on.
 - d. Ability to silence the audible alarm.
 - e. Indicator lights for the exhaust fans

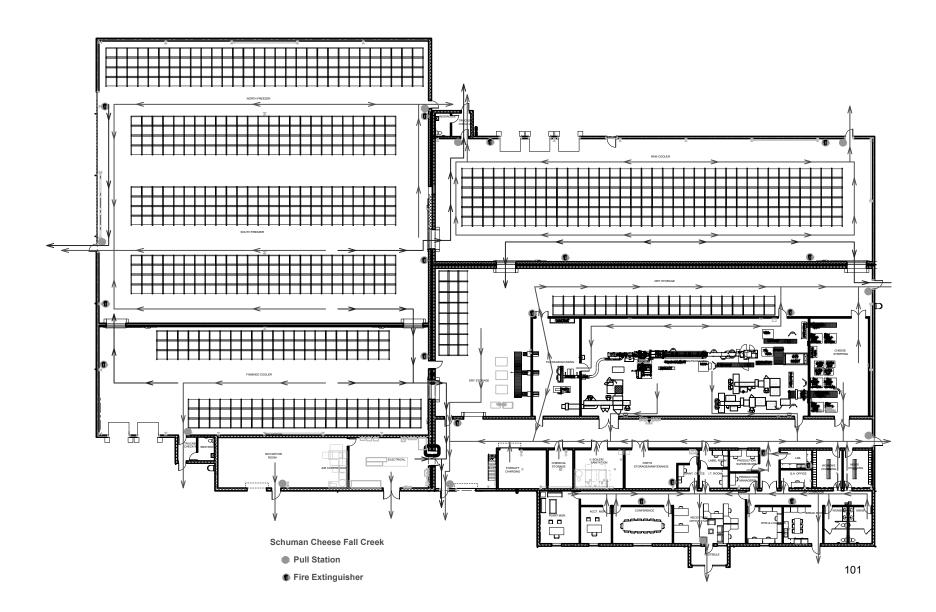


- **5.** Emergency backup generator.
 - a. Auto-switches to generator power if grid goes down
 - b. Powers ammonia system, lighting, and communications for the whole plant

Note 2: The facility system is a closed loop system, meaning there is no gain or loss of ammonia. Ammonia would only ever need to be added if the system had been expanded or a major leak had been experienced at the facility.

Note 3: The local fire department has held a biannual training at the facility, with the last occurring February 19, 2018. The entire department participates in a plant tour and a review of facility safety measures. Additionally, the department conducts an annual facility fire inspection at this time. The fire department has been provided keys to the plant for easy access to the facility.

APPENDIX 1: FACILITY LAYOUT



SAFETY DATA SHEET

Ammonia

Section 1. Identification

GHS product identifier	: Ammonia
Chemical name	: ammonia, anhydrous
Other means of identification	: ammonia; anhydrous ammonia; Aqueous ammonia; Aqua ammonia
Product use	: Synthetic/Analytical chemistry.
Synonym SDS #	: ammonia; anhydrous ammonia; Aqueous ammonia; Aqua ammonia : 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/IRRITATION - Category 1 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 AQUATIC HAZARD (ACUTE) - Category 1
GHS label elements	
Hazard pictograms	
Signal word	: Danger
Hazard statements	 Flammable gas. Contains gas under pressure; may explode if heated. May cause frostbite. May form explosive mixtures in Air. 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.

1/13



Section 2. Hazards identification

 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 when ambient temperature exceeds 52°C/125°F. Store in a well-ventilated place. Disposal Dispose of contents and container in accordance with all local, regional, national and international regulations. Liquid can cause burns similar to frostbite. 		
Disposal 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 Iciquid can cause burns similar to frostbite.	Response	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,
international regulations.Hazards not otherwise: Liquid can cause burns similar to frostbite.	Storage	
	Disposal	
		: Liquid can cause burns similar to frostbite.

Section 3. Composition/information on ingredients

Substance/mixture	: Substance
Chemical name	: ammonia, anhydrous
Other means of identification	: ammonia; anhydrous ammonia; Aqueous ammonia; Aqua ammonia

CAS number/other identifiers

CAS number	: 7664-41-7		
Product code	: 001003		
Ingredient name		%	CAS number
ammonia, anhydrous		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	: Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician.
Inhalation	: Get medical attention immediately. Call a poison center or physician. 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. 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	: Get medical attention immediately. Call a poison center or physician. 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. In case of contact with liquid, warm frozen tissues slowly with lukewarm water and get medical attention. Do not rub affected area. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

 Date of issue/Date of revision
 : 1/5/2017
 Date of previous issue
 : 12/20/2016
 Version
 : 0.09
 2/13

Section 4. First aid measures

Ingestion	: Get medical attention immediately. Call a poison center or physician. Remove victim to
ingestion	fresh air and keep at rest in a position comfortable for breathing. Chemical burns must be treated promptly by a physician. Ingestion of liquid can cause burns similar to frostbite. If frostbite occurs, get medical attention. Never give anything by mouth to an unconscious person. 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. As this product rapidly becomes a gas when released, refer to the inhalation section.
Most important symptoms/	effects, acute and delayed
Potential acute health effe	i <u>cts</u>
Eye contact	: Causes serious eye damage. Liquid can cause burns similar to frostbite.
Inhalation	: Harmful if inhaled.
Skin contact	 Causes severe burns. Dermal contact with rapidly evaporating liquid could result in freezing of the tissues or frostbite.
Frostbite	: Try to warm up the frozen tissues and seek medical attention.
Ingestion	: Ingestion of liquid can cause burns similar to frostbite.
Over-exposure signs/sym	<u>ptoms</u>
Eye contact	: Adverse symptoms may include the following:, pain, watering, redness, frostbite
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following:, pain or irritation, redness, blistering may occur, frostbite
Ingestion	: Adverse symptoms may include the following:, frostbite, stomach pains
	dical 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

Section 5. Fire-fighting measures

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. For incidents involving large quantities, thermally insulated undergarments and thick textile or leather gloves should be worn.

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. Do not touch or walk through spilled material. 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 specialised 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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. 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 co	nt	ainment 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.

Section 7. Handling and storage

Conditions for safe storage,	: Store in accordance with local regulations. Store in a segregated and approved area.
including any	Store away from direct sunlight in a dry, cool and well-ventilated area, away from
incompatibilities	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, anhydrous	ACGIH TLV (United States, 3/2015).		
	STEL: 24 mg/m ³ 15 minutes.		
	STEL: 35 ppm 15 minutes.		
	TWA: 17 mg/m ³ 8 hours.		
	TWA: 25 ppm 8 hours.		
	NIOSH REL (United States, 10/2013).		
	STEL: 27 mg/m ³ 15 minutes.		
	STEL: 35 ppm 15 minutes.		
	TWA: 18 mg/m ³ 10 hours.		
	TWA: 25 ppm 10 hours.		
	OSHA PEL (United States, 2/2013).		
	TWA: 35 mg/m ³ 8 hours.		
	TWA: 50 ppm 8 hours.		
	OSHA PEL 1989 (United States, 3/1989).		
	STEL: 27 mg/m ³ 15 minutes.		
	STEL: 35 ppm 15 minutes.		

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 ventilation equipment with the appropriate electrical classification rating.
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 measure	<u>S</u>
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	

Section 8. Exposure controls/personal 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. If contact with the liquid is possible, insulated gloves suitable for low temperatures should be worn. 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.
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	: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. 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

<u>Appearance</u>		
Physical state	as. [Liquefied gas]	
Color	lorless.	
Molecular weight	.03 g/mole	
Molecular formula	B-N	
Boiling/condensation point	3°C (-27.4°F)	
Melting/freezing point	7.7°C (-107.9°F)	
Critical temperature	2.85°C (271.1°F)	
Odor	ngent.	
Odor threshold	t available.	
рН	t available.	
Flash point	t available.	
Burning time	t applicable.	
Burning rate	t applicable.	
Evaporation rate	t available.	
Flammability (solid, gas)	tremely flammable in the presence of the following materials or conditions: oxionaterials.	dizing
Lower and upper explosive (flammable) limits	wer: 15% per: 28%	
Vapor pressure	4.1 (psig)	
Vapor density	59 (Air = 1)	
Specific Volume (ft ³ /lb)	.7273	
Gas Density (lb/ft ³))44	
Relative density	t applicable.	
Solubility	t available	
Solubility in water	0 g/l	
Partition coefficient: n- octanol/water	t available.	
Auto-ignition temperature	1°C (1203.8°F)	
Decomposition temperature	t available.	

Section 9. Physical and chemical properties

SADT	: Not available.
Viscosity	: Not applicable.
Physical/chemical properties comments	: SPECIFIC GRAVITY (AIR=1): @ 70°F (21.1°C) = 0.59 PH: Approx. 11.6 for 1 N Sol'n. in water

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.
Incompatible materials	: Oxidizers
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, anhydrous	LC50 Inhalation Gas.	Rat	7338 ppm	1 hours

IDLH

Ammonia

: 300 ppm

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

Section 11. Toxicological information

Not available.

Information on the likely routes of exposure	: Not available.
Potential acute health effects	<u>></u>
Eye contact	: Causes serious eye damage. Liquid can cause burns similar to frostbite.
Inhalation	: Harmful if inhaled.
Skin contact	: Causes severe burns. Dermal contact with rapidly evaporating liquid could result in freezing of the tissues or frostbite.
Ingestion	: Ingestion of liquid can cause burns similar to frostbite.
Symptoms related to the phy	sical, chemical and toxicological characteristics
Eye contact	: Adverse symptoms may include the following:, pain, watering, redness, frostbite
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following:, pain or irritation, redness, blistering may occur, frostbite
Ingestion	: Adverse symptoms may include the following:, frostbite, stomach pains
Delayed and immediate effect	ts 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 effe	ects
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 toxic Acute toxicity estimates	<u>ity</u>
Not available.	

Other information

: IDLH : 300 ppm

Section 12. Ecological information

Τ	oxi	C	ity
_			

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

Persistence and degradability

Not available.

Bioaccumulative potential

Not available.

<u>Mobility in soil</u>	
Soil/water partition	: Not available.
coefficient (Koc)	

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	ΙΑΤΑ	
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	2.2	2.3 (8)	2.3 (8)	2.3 (8)	2.3 (8)	
hazard class(es)	POPER JANUAL EST					
		¥2		¥2		
Packing group	-	-	-	-	-	
Environment	No.	No.	No.	Yes.	No.	
Date of issue/Date of revision : 1/5/2017 Date of previous issue : 12/20/2016 Version : 0.09 9/13						

Section 14. Transport information

Additional	Inhalation hazard	Product classified as	Toxic Inhalation	The marine pollutant	The environmentally
Additional	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. Packaging instruction Passenger aircraft Quantity limitation: Forbidden. Cargo aircraft Quantity limitation: Forbidden. Special provisions	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 Special provisions	Toxic Inhalation Hazard Zone D	The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.	The environmentally hazardous substance mark may appear if required by other transportation regulations. Passenger and Cargo Aircraft Quantity limitation: 0 Forbidden Cargo Aircraft Only Quantity limitation: Forbidden

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

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	1	Not available.
to Annex II of MARPOL		
73/78 and the IBC Code		

Section 15. Regulatory information

: TSCA 8(a)) CDR Exempt/Partial ex	emption: Not determ	ined		
United Sta	ates inventory (TSCA 8b): This material is list	ed or exempte	ed.	
Clean Wa	ter Act (CWA) 311: amm	onia, anhydrous			
Clean Air	Act (CAA) 112 regulated	l toxic substances: a	ammonia, anh	ydrous	
: Not listed					
: Not listed					
: Not listed					
: Not listed					
: 1/5/2017	Date of previous issue	: 12/20/2016	Version	:0.09	10/13
	United St Clean Wa Clean Air Not listed Not listed Not listed Not listed	United States inventory (TSCA 8b Clean Water Act (CWA) 311: amm Clean Air Act (CAA) 112 regulated Not listed Not listed Not listed Not listed	 United States inventory (TSCA 8b): This material is list Clean Water Act (CWA) 311: ammonia, anhydrous Clean Air Act (CAA) 112 regulated toxic substances: a Not listed Not listed Not listed Not listed 	Clean Water Act (CWA) 311: ammonia, anhydrous Clean Air Act (CAA) 112 regulated toxic substances: ammonia, anh Not listed Not listed Not listed Not listed	 United States inventory (TSCA 8b): This material is listed or exempted. Clean Water Act (CWA) 311: ammonia, anhydrous Clean Air Act (CAA) 112 regulated toxic substances: ammonia, anhydrous Not listed Not listed Not listed Not listed

Section 15. Regulatory information

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

				SARA 302 TPQ SARA 304 RQ		RQ	
	Name	%	EHS	(lbs)	(gallons)	(lbs)	(gallons)
	ammonia, anhydrous	100	Yes.	500	-	100	-
	SARA 304 RQ : 100 lbs / 4	45.4 kg					
<u>S</u>	ARA 311/312						
	Classification : Fire haza	rd					

Sudden release of pressure Immediate (acute) health hazard

Composition/information on ingredients

Name	%	hazard	Sudden release of pressure		Immediate (acute) health hazard	Delayed (chronic) health hazard
ammonia, anhydrous	100	Yes.	Yes.	No.	Yes.	No.

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	ammonia, anhydrous	7664-41-7	100
Supplier notification	ammonia, anhydrous	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.
New York	: This material is listed.
New Jersey	: This material is listed.
Pennsylvania	: This material is listed.
International regulations	
International lists	
National inventory	
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	: 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.
<u>Canada</u>	
WHMIS (Canada)	Class A: Compressed gas. Class B-1: Flammable gas. Class D-1A: Material causing immediate and serious toxic effects (Very toxic Class E: Corrosive material

Date of issue/Date of revision	: 1/5/2017	Date of previous issue	: 12/20/2016	Version : 0.09 ¹²	11/13
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Ammonia

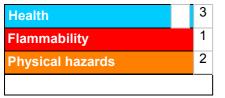
Section 15. Regulatory information

CEPA Toxic substances: This material is listed.
Canadian ARET: This material is not listed.
Canadian NPRI: This material is listed.
Alberta Designated Substances: This material is not listed.
Ontario Designated Substances: This material is not listed.
Quebec Designated Substances: This material is not listed.

Section 16. Other information

Canada Label requirements : Class A: Compressed gas. Class B-1: Flammable gas. Class D-1A: Material causing immediate and serious toxic effects (Very toxic). Class E: Corrosive material

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 are not required on SDSs 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 mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

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



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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.

Clas	sification		Just	ification		
Flam. Gas 2, H221 Press. Gas Liq. Gas, H280 Acute Tox. 4, H332 Skin Corr. 1, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400		Exper Exper Exper Exper	t judgment t judgment t judgment t judgment t judgment t judgment			
History		<u>.</u>				
Date of printing	: 1/5/2017					
Date of issue/Date of revision	: 1/5/2017					
Date of previous issue	: 12/20/2016					
Version	: 0.09					
Date of issue/Date of revision	: 1/5/2017	Date of previous issue	: 12/20/2016	Version	:0.09	12/13

Procedure used to derive the classification

Section 16. Other information

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 73/78 = 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.

✓ Indicates information that has changed from previously issued version.

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 2/16/2018
Facility / Route Name Schum Chemical AMMONIA	an Cheese	CAS 7664-41-7
Screening Name SCHUMAN	CHEESE - AMMONIA: WO	RST CASE Datasheet
In Inventory	In Transit	Shipper
Screening Description	on	Notes
Weather Information	weight % minutes	5 gm/m ³ eenbook LOC
	ees measured clockwise fro mple: 015, 315, 270)	Ground Roughness open country om 0 N. Stability Class
Risk Assessment Consequences Overall Risk	Severity of conseq	ribed accident occurring uence to people bability and severity of consequence
Thre	eat Zone Radius <u>6.2</u> mil	es Show on Map

Screening & Scenarios	Last Modified 2/16/2018
Facility / Route Name Schum Chemical AMMONIA	an Cheese CAS 7664-41-7
Scenario Name SCHUMAN	CHEESE - AMMONIA: REEVALUATION Datasheet
In Inventory	In Transit Shipper
Scenario Descriptio	on Notes
	pounds Physical State Gas weight % Liquid minutes Solid ke, enter surface area within dike: sq ft ation Level of Concern .035 gm/m³ LOC Description Greenbook LOC Ground Roughness open country
Wind From in degr	ees measured clockwise from 0 N. Stability Class D mple: 015, 315, 270)
Risk Assessment Risk Consequences Overall Risk	Probability of described accident occurring Severity of consequence to people Combination of probability and severity of consequence
Three	eat Zone Radius 0.7 miles Show on Map

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

COUNTY: Eau Claire	
Facility ID No. : 143371	
Facility Name: Menard, Inc	
Facility Address: 5101 Menard Dr, 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.

05/27/202/

Facility Coordinator

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

County Emergency Management Director

WEM / SERC ACCEPTANCE:

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

WEM Regional Director

NOTE: Facility Off-Site Plan Review Guide attached: Yes 🖌 No 🗌

WISCONSIN EMERGENCY MANAGEMENT PO BOX 7865 MADISON WI 53707-7865 §323.60 WI Stats POW FFY 2021 Page 1 of 3

Date

Date

Date

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

MADISON WI 53707-7865

COUNTY: Eau Claire	
NEW UPDATE FINAL UPDATE	
Facility ID No. : 143371	
Facility Name: Menard, Inc	
Facility Address: 5101 Menard Dr, Eau Claire, Wisconsin 54703	

FACILITY OFF-SITE PLAN REVIEW GUIDE

EPCR	A 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	8
5)	Support and resources available from facility	6
6)	General Information / Assumptions (Disclaimer)	9
7)	Hazard analysis summary	7
8)	Special facilities affected	9
9)	Population protection	9
10)	Special considerations	9
11)	Site Plan / Facility Layout	11 (Appendix 1)
WISCO PO BOX		§323.60 WI Stats POW FFY 2021 Page 2 of 3

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

COUNTY: Eau Claire	
NEW UPDATE 🖌 FINAL UPDATE	
Facility ID No. : 143371	
Facility Name: Menard, Inc	
Facility Address: 5101 Menard Dr, 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

Α.	Vulnerability Zone map highlighting special facilities	10
В.	Safety Data Sheet (SDS) for each EHS	12 - 15
C.	Vulnerability Zone Calculations	16 - 17
D.	Transportation route(s) map	



Menard, Inc. Facility Off-Site Emergency Response Plan





Facility #143371 Menard, Inc 5101 Menard Dr Eau Claire, Wisconsin 54703 Eau Claire County Emergency Management 721 Oxford Avenue, Suite 3344 Eau Claire, Wisconsin 54703

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Facility Layout	Appendix 1
Extremely Hazardous Substances SDS	
CAMEO Calculations	

RECORD OF CHANGES

Change	Date Changed	Change Made By
Initial Draft	5/2018	TE
Updated	5/2021	SS

SECTION 1: FACILITY INFORMATION

A. Address

Menard, Inc 5101 Menard Drive Eau Claire, WI 54703

B. Facility ID

143371

C. Map



D. Emergency Contacts

<u>Primary:</u>
Rob Ebben
Phone: 715-876-2300
24 Hour: 715-214-6112
rebben@menard-inc.com

<u>Secondary:</u> Chris Witkowski Phone: 715-876-2400 24 Hour: 715-828-0145 cwitkowski@menard-inc.com

E. Extremely Hazardous Substances

Sulfuric Acid	Inventory:	Storage:
Chemical ID: 140415	Max Daily Amount (lbs): 2135	Container: Batteries
CAS: 7664939	Ave. Daily Amount (lbs): 2135	Location: Batteries for forklifts and
ERG: Guide 137	Number of days on site: 365	other equipment that are
		throughout the Menards complex

F. Hazardous Substances

Arsenic Acid	Inventory:	Storage:
Chemical ID: 401269	Max Daily Amount (lbs): 41000	Container: Above Ground Tank
CAS: 7778394	Ave. Daily Amount (lbs): 28000	Location: Treating Plant
ERG: Guide 154	Number of days on site: 365	

Battery Electrolyte	Inventory:	Storage:
Chemical ID: 401272	Max Daily Amount (lbs): 2135	Container: Battery
CAS: 7664939	Ave. Daily Amount (lbs): 2135	Location: Batteries for forklifts and
ERG: Guide	Number of days on site: 365	other equipment located with
		buildings contiguous on complex
Bituminous Coal Fly Ash	Inventory:	Storage:
Chemical ID: 401271	Max Daily Amount (lbs): 200000	Container: Silo
CAS: 68131748	Ave. Daily Amount (lbs): 125000	Location: Concrete Plant
ERG: Guide	Number of days on site: 365	
Carbon Black	Inventory:	Storage:
Chemical ID: 401258	Max Daily Amount (lbs): 30000	Container: Bag
CAS: 1333864	Ave. Daily Amount (lbs): 20000	Location: Concrete Plant
ERG: Guide	Number of days on site: 365	
Copper Carbonate	Inventory:	Storage:
Chemical ID: 401264	Max Daily Amount (lbs): 62000	Container: Tank Inside Building
CAS: 12069691	Ave. Daily Amount (lbs): 32000	Location: Treating Plant
ERG: Guide	Number of days on site: 365	
<u></u>	· .	
Diesel Fuel	Inventory:	Storage:
Chemical ID: 401256	Max Daily Amount (lbs): 83200	Container: Above Ground Tanks
CAS: 68476346	Ave. Daily Amount (lbs): 56000	Location: Various Plants throughout
ERG: Guide 128	Number of days on site: 365	complex
Granulated Blast	Inventory:	Storage:
Furnace Slag	Max Daily Amount (lbs): 200000	Container: Silo
Chemical ID: 401266	Ave. Daily Amount (lbs): 100000	Location: Concrete Plant
CAS: 65996692	Number of days on site: 365	
ERG: Guide		
Iron Oxide	Inventory:	Storage:
Chemical ID: 401265	Max Daily Amount (lbs): 60000	Container: Above Ground Tank
CAS: 1309371	Ave. Daily Amount (lbs): 40000	Location: Extrusion Plant
ERG: Guide 135	Number of days on site: 365	
Polyethylene	Inventory:	Storage:
Chemical ID: 401263	Max Daily Amount (lbs): 31750000	Container: Silo
CAS: 9002884	Ave. Daily Amount (lbs): 1800000	Location: Extrusion Plant
ERG: Guide	Number of days on site: 365	
Polymethylene	Inventory:	Storage:
Polyphenyl Isocyanate	Max Daily Amount (lbs): 60000	Container: Tank Inside Building
Chemical ID: 401257	Ave. Daily Amount (lbs): 35000	Location: Prehung Plant
CAS: 9016879	Number of days on site: 365	
C/(3. 5010075		

Chemical ID: 401259 CAS: 65997151	Max Daily Amount (lbs): 400000	Storage: Container: Silo	
CAS: 65997151		container one	
	Ave. Daily Amount (lbs): 250000	Location: Concrete Plant	
ERG: Guide	Number of days on site: 365		
Propane	Inventory:	Storage:	
Chemical ID: 401270	Max Daily Amount (lbs): 38220	Container: Above Ground Tanks	
CAS: 74986	Ave. Daily Amount (lbs): 21840	Location: Buildings throughout	
ERG: Guide 115	Number of days on site: 365	complex	
Red Iron Oxide	Inventory:	Storage:	
Chemical ID: 401268	Max Daily Amount (lbs): 17000	Container: Above Ground Tank	
CAS: 1309371	Ave. Daily Amount (lbs): 13000	Location: Treating Plant	
ERG: Guide 135	Number of days on site: 365		
Sand	Inventory:	Storage:	
Chemical ID: 401260	Max Daily Amount (lbs): 800000	Container: Silo	
CAS: 14808607	Ave. Daily Amount (lbs): 500000	Location: Concrete Plant	
ERG: Guide	Number of days on site: 365		
Slack Wax, Petroleum	Inventory:	Storage:	
Chemical ID: 401267	Max Daily Amount (lbs): 64000	Container: Above Ground Tank	
CAS: 64742616	Ave. Daily Amount (lbs): 40000	Location: Treating Plant	
ERG: Guide 128	Number of days on site: 365	Ū.	
Talc	Inventory:	Storage:	
Chemical ID: 401262 Max Daily Amount (lbs): 50000		Container: Bag	
CAS: 14807966	Ave. Daily Amount (lbs): 30000	Location: Extrusion Plant	
ERG: Guide	Number of days on site: 365		
Zinc Stearate	Inventory:	Storage:	
Chemical ID: 401261	Max Daily Amount (lbs): 12000	Container: Bag	
CAS: 557051	Ave. Daily Amount (lbs): 8000	Location: Extrusion Plant	
ERG: Guide	Number of days on site: 365		

G. Resources/Support Available

Menards has absorbent and neutralizer material on supply and staff able to use it in the event of a spill. Due to the only EHS being sulfuric acid as a mixture in forklift batteries, it is unlikely that every battery will fail simultaneously or close enough to other batteries to cause a major issue.

H. Hazard Analysis

Menard, Inc. is one of the largest home improvement chains in the United States. This plant employs one thousand (1,000) individuals. These employees work shifts with an average number of five hundred (500) per shift. The facility operates up to 24 hours/day. There are multiple buildings on site as part of the complex. The extremely hazardous substance is sulfuric acid which is used in electrolyte of batteries. The total quantity of sulfuric acid electrolyte is 2,135 lbs. These batteries are used in forklifts and other equipment that is in the complex. In the screening scenarios as stated for sulfuric acid below, the evacuation radius for sulfuric acid is less than 0.1 mile.

The hazard analysis determined this sulfuric acid to be the major chemical hazard present at the facility. It is used in the batteries associated with equipment. A leak of sulfuric acid would be detected by equipment that is monitored by visual inspection. If a leak were to be detected employees will alert a supervisor so they can take appropriate action. 2,135 pounds of sulfuric acid are on site. The modeled evacuation area is based on worst case scenario for Sulfuric Acid ten minutes after a catastrophic failure of containment. The largest containment of Sulfuric Acid is a failure of equipment batteries. This is the amount of material used in the worst-case scenario.

The greatest potential for release would be the failure of batteries which contain the greatest volume of material.

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 evacuation radius, as calculated by CAMEO software for a 2,135-pound Sulfuric Acid release, was determined to be less than .1 mile. Due to the size of the Menards complex, the release would be contained on-site and not affect any housing units.

The reevaluation evacuation radius, as calculated by CAMEO software for a 2,135-pound Sulfuric Acid release, was determined to be less than .1mile. Due to the size of the Menards complex, the release would be contained on-site and not affect any housing units.

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

I. Access to Facility

In the event of an incident on the Menards complex, staff in guard shacks and at intersections will direct emergency personnel to the scene. The facility is staffed 24/7.

SECTION 2: OUTSIDE RESOURCES

A. Primary Response Agencies

Fire:	EMS:	Law:	Emergency Management:
Township Fire	Eau Claire Fire	Eau Claire County	Eau Claire Office of
Department	Department	Sheriff's Office	Emergency Management
4601 E. Hamilton Ave	216 S. Dewey St	721 Oxford Avenue	721 Oxford Avenue
Eau Claire, WI 54703	Eau Claire, WI 54701	Suite 1400	Suite 3344
Phone: 715-834-6868	Phone: 715-834-6868	Eau Claire, WI 54703	Eau Claire, WI 54703
		Phone: 715-839-4701	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 Type 1 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.

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

A. General Information and Assumptions

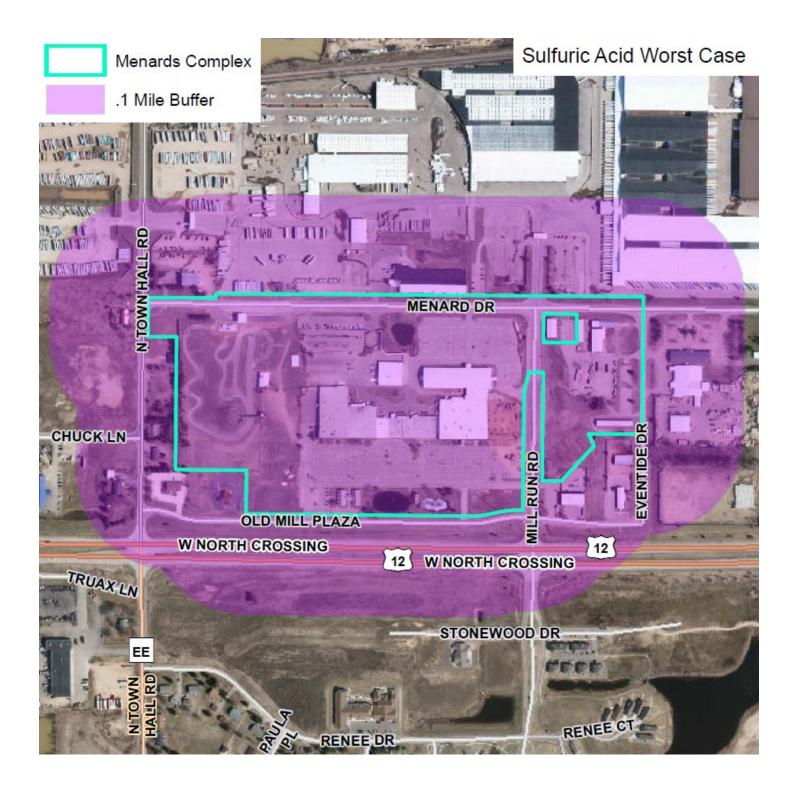
The vulnerability zones set forth in the Plan are based on the EPA Technical Guidance for Hazards Analysis. The zones are based on a credible worst-case scenario and identify the potential area for impact should an air-borne release of a single EHS chemical occur.

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 preemergency 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.

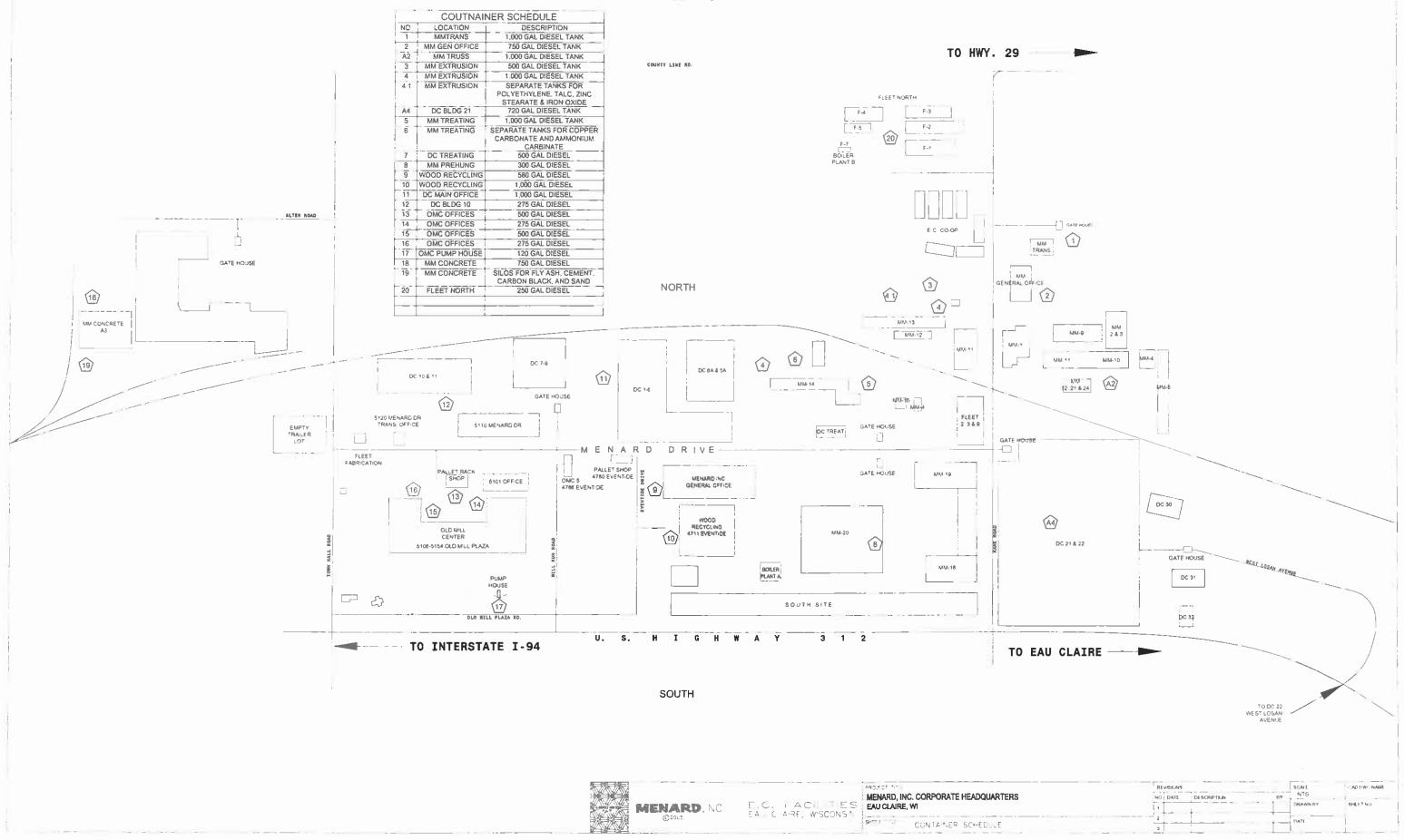
Further, fire departments that would respond to an incident at this facility are strongly encouraged to meet with facility representatives to determine ways to minimize an event at the facility and to determine what additional information and factors should be taken into consideration in the event of 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 Not applicable
- C. Vulnerability Zone Map See attached map



APPENDIX 1: FACILITY LAYOUT



APPENDIX 2: EXTREMELY HAZARDOUS SUBSTANCES SDS Safety Data Sheet

Sulfuric Acid, Concentrated 18 M

Section 1

Product Description

Product Name: Recommended Use: Synonyms: Distributor: Sulfuric Acid, Concentrated 18 M Science education applications Oil of Vitriol; , Hydrogen Sulfate Carolina Biological Supply Company 2700 York Road, Burlington, NC 27215 1-800-227-1150 800-227-1150 (8am-5pm (ET) M-F) 800-424-9300 (Transportation Spill Response 24 hours)

Chemical Information: Chemtrec:

Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;



Section 2



Causes severe skin burns and eye damage. Causes serious eye damage. Toxic if inhaled. May cause cancer. Harmful to aquatic life.

GHS Classification:

Skin Corrosion/Irritation Category 1A, Serious Eye Damage/Eye Irritation Category 1, Carcinogenicity Category 1A, Acute Toxicity - Inhalation Dust / Mist Category 3, Hazardous to the aquatic environment - Acute Category 3

Other Safety Precautions:

IF exposed or concerned: Get medical advice/attention.

Acute Toxicity Dermal Contains

Composition / Information on Ingredients

100 % of the mixture consists of ingredient(s) of unknown toxicity

<u>Chemical Name</u> Sulfuric Acid, Concentrated 18M <u>CAS #</u> 7664-93-9 <u>%</u> 100

Section 4

Section 6

Section 3

First Aid Measures

Emergency and First	Aid Procedures
Inhalation:	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Eyes:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Skin Contact:	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.
Ingestion:	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
Section 5	Firefighting Procedures

Extinguishing Media: Fire Fighting Methods and Protection:	Use dry chemical, CO2 or appropriate foam. Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.
Fire and/or Explosion Hazards:	Non-combustible but contact with water or moisture may generate sufficient heat to ignite combustible materials Contact with water produces sulfuric acid.
Hazardous Combustion Products:	Sulfur Oxides

Spill or Leak Procedures

Safety Data Sheet

Steps to Take in 0 Released or Spill Section 7	ed: ec ne th er Pr to re gr	Apposure to the spilled materi quipment recommendations ecessary based on special ci e quantity of the spill, the are nployees in the area respon revent the spread of any spil do so. Wear complete and commendation of Section 8 ranulated clay. Gather and si olate hazard area. Keep unr low the spilled product to en Handling and	found in Section 8 of ircumstances create ea in which the spill ding to the spill. I to minimize harm proper personal pro- at a minimum. Dike tore in a sealed cor necessary and unpr ter public drainage	of this SDS. Additional pre- ed by the spill including; the occurred. Also consider the to human health and the en- tective equipment following with suitable absorbent re- ntainer pending a waste di- otected personnel from en-	ecautions may be he material spilled, the expertise of environment if safe ng the material like isposal evaluation. ntering. Do not
Handling: Storage:	Do not breathe dust/ ventilated area. Avoid protection. Never add	ctions before use. Do not hat fume/gas/mist/vapors/spray. d release to the environment d water to this product. tted place. Keep container th	ndle until all safety . Wash thoroughly a . Wear protective g	after handling. Use only of loves/protective clothing/e	utdoors or in a well- eye protection/face
Storage Code:		eparate acids from bases; se	parate oxidizer acio	ds from organic acids.	
Section 8		Protection In	formation		
Chemical Name Sulfuric Acid, Cond	centrated 18M	<u>ACGIH</u> (<u>TWA)</u> 0.2 mg/m3 TWA (thoracic fraction)	<u>I</u> (STEL) N/A	<u>OSHA I</u> (TWA) 1 mg/m3 TWA	<u>PEL</u> (STEL) N/A
Sulfuric Acid, Cond Control Parameter Engineering Meas	s sures: ve Equipment (PPE): ection:	(TWA) 0.2 mg/m3 TWA	(STEL) N/A process enclosure or using this production h, safety shower. ay be required to ave exhaust ventilation ventilation is not ave ying respirator with ggles when handlin y of splashing of liq aring chemically respiration on conditions of use ervals. Clean protect mild soap and wate	(TWA) 1 mg/m3 TWA 1 mg/m3 TWA s, or other engineering co act to avoid overexposure. roid overexposure when h is the preferred means of vailable or sufficient to elir acid gas cartridge and du g this product. Additionall uid exists. Have an eye w sistant gloves, an apron an e. Inspect gloves for chem ctive equipment regularly.	(STEL) N/A ontrols are andling this f protection. Use a minate symptoms. ust/mist filter ly, wear a face rash station and other protective nical break-through Wash hands and

Section 9

Physical Data

Formula: H2SO4	Vapor Pressure: 0.7 hPa at 25°C
Molecular Weight: 98.08	Evaporation Rate (BuAc=1): No data available
Appearance: Colorless, Oily Liquid	Vapor Density (Air=1): No data available
Odor: Strong Pungent	Specific Gravity: 1.834-1.836 at 20°C
Odor Threshold: No data available	Solubility in Water: Soluble
pH: -1.26	Log Pow (calculated): No data available
Melting Point: 10 C	Autoignition Temperature: No data available
Boiling Point: 280 C	Decomposition Temperature: No data available
Flash Point: No data available	Viscosity: 0.24
Flammable Limits in Air: No data available	Percent Volatile by Volume: No data available

Section 10

Reactivity: Chemical Stability:

Reactivity Data

Moderately reactive - See below Stable under normal conditions.

Safety Data Sheet

Conditions to Avoid: Contact with water Water, Organic Compounds, Strong reducing agents, Acetaldehydes, Amines **Incompatible Materials:** Hazardous Decomposition Products: Sulfur Oxides Will not occur Hazardous Polymerization: Section 11 Toxicity Data Routes of Entry Inhalation. Symptoms (Acute): Respiratory disorders **Delayed Effects:** Dental Erosion Acute Toxicity: **Chemical Name CAS Number** Oral LD50 Dermal LD50 Inhalation LC50 Sulfuric Acid, Concentrated 18M Oral LD50 Rat INHALATION 7664-93-9 Not determined LC50 GUINEA PIG 2140 mg/kg 18 MG/M3 INHALATION LC50 Rat 510 MG/M3 INHALATION LC50 Mouse 320 MG/M3 **Carcinogenicity: Chemical Name CAS Number** IARC NTP **OSHA** Sulfuric Acid, Concentrated 18M Not listed Not listed 7664-93-9 Listed **Chronic Effects:** Mutagenicity: No evidence of a mutagenic effect. Teratogenicity: No evidence of a teratogenic effect (birth defect). Sensitization: No evidence of a sensitization effect. **Reproductive:** No evidence of negative reproductive effects. **Target Organ Effects:** Acute: No information available Chronic: Respiratory system Section 12 Ecological Data **Overview:** Slight ecological hazard. In high concentrations, this product may be dangerous to plants and/or wildlife. This material is expected to have high mobility in soil. It absorbs weakly to most soil types. Mobility: Persistence: Biodegradation, adsorption to sediment, and bioconcentration to aquatic organisms should not be significant. **Bioaccumulation:** Bioconcentration is not expected to occur. **Degradability:** No data **Other Adverse Effects:** No data **Chemical Name CAS Number Eco Toxicity** 96 HR LC50 BRACHYDANIO RERIO > 500 MG/L [STATIC] Sulfuric Acid, Concentrated 18M 7664-93-9 24 HR EC50 DAPHNIA MAGNA 29 MG/L

Section 13

Section 14

Disposal Information

Disposal Methods:

Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance. If discarded, this product is considered a RCRA corrosive waste, D002.

Waste Disposal Code(s):

Transport Information

Ground - DOT Proper Shipping Name:

Air - IATA Proper Shipping Name:

Safety Data Sheet

UN1830 Sulfuric Acid Class 8 P.G. II UN1830 Sulfuric Acid Class 8 P.G. II

Regulatory Information

Additional Information

Section 15

TSCA Status:

All components in this product are on the TSCA Inventory.

Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Sulfuric Acid, Concentrated 18M	7664-93-9	Sulfuric acid	1000 lb RQ	1000 lb final RQ; 454 kg final RQ	1000 lb TPQ	No

California Prop 65:

WARNING: This product contains a chemical known to the state of California to cause cancer.

Section 16

Revised: 09/09/2015

Replaces: 09/03/2014

Printed: 10-29-2015

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary			
ACGIH	American Conference of Governmental	NTP	National Toxicology Program
	Industrial Hygienists	OSHA	Occupational Safety and Health Administration
CAS	Chemical Abstract Service Number	PEL	Permissible Exposure Limit
CERCLA	Comprehensive Environmental Response,	ppm	Parts per million
	Compensation, and Liability Act	RCRA	Resource Conservation and Recovery Act
DOT	U.S. Department of Transportation	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
N/A	Not Available	TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health

APPENDIX 3: CAMEO CALCULATIONS

5	Screening & Scenarios Last Modified 5/18/2018
	Facility / Route Name Menard, Inc Eau Claire Chemical Sulfuric Acid
	Screening Name Menard Inc Sulfuric Acid - Worst Case Datasheet
	In Inventory In Transit Shipper
	Screening Description Notes
	Amount Released 2135 pounds Physical State Gas Concentration 100 weight % Release Duration minutes If stored in container with a dike, enter surface area within dike: sq ft Atmospheric Concentration Level of Concern .008 gm/m ³ LOC Description Greenbook LOC Weather Information Wind Speed 3.35 mph Ground Roughness open country Wind From in degrees measured clockwise from 0 N. Stability Class F (for example: 015, 315, 270)
	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

S	Creening & Scenarios Last Modified 5/18/2018
	Facility / Route Name Menard, Inc Eau Claire Chemical CAS 7664-93-9
	Scenario Name Menards - Sulfuric Acid - Reevaluation Datasheet
	🗙 In Inventory 📄 In Transit 📄 Shipper
	Scenario Description Notes
	Amount Released 2135 pounds Physical State Gas Concentration 100 weight % Release Duration minutes If stored in container with a dike, enter surface area within dike: sq ft Atmospheric Concentration Level of Concern .008 gm/m ³ LOC Description Greenbook LOC Weather Information Wind Speed 11.9 mph Ground Roughness open country Wind From in degrees measured clockwise from 0 N. Stability Class D
	(for example: 015, 315, 270) 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 Show on Map