

SAFETY DATA SHEET

Issue Date 07-Aug-2018

Product Name

Revision Date 15-Sept-2020

Version 2

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Other means of identification	
Product Code	410
UN/ID No.	UN2796
Synonyms	None

Recommended use of the chemical	and restrictions on use
Recommended Use	Chlorine Dioxide Acid Precursor
Uses advised against	PREVENT DISPERSION OF MISTS!

Manufacturer Address

Anderson Chemical Company, 325 South Davis Avenue, Litchfield, MN 55355 (320-693-2477)

CD-9535

Emergency telephone number

Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

Acute toxicity - Inhalation (Dusts/Mists)	Category 3
Skin corrosion/irritation	Category 1 Sub-category A
Serious eye damage/eye irritation	Category 1
Corrosive to metals	Category 1

Label elements

	Emergency Overview	
Danger	¥	
Hazard statements Toxic if inhaled Causes severe skin burns and eye damage May be corrosive to metals		

Do not breathe dust/fume/gas/mist/vapors/spray Wash face, hands and any exposed skin thoroughly after handling Keep only in original container Wear protective gloves/protective clothing/eye protection/face protection Use only in well-ventilated areas

Precautionary Statements - Response

Specific treatment (see Section 4 on this label) Immediately call a POISON CENTER or doctor/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 doctor/physician IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Immediately call a POISON CENTER or doctor/physician IF SWALLOWED: Rinse mouth. DO NOT induce vomiting Absorb spillage to prevent material damage

Precautionary Statements - Storage

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

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Other Information

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%	Trade Secret
Sulfuric acid	7664-93-9	35.2-36.4	

*The exact percentage (concentration) of composition has been withheld as a trade secret.

	4. FIRST AID MEASURES	
First aid measures		
General advice	Immediate medical attention is required.	
Eye contact	Flush immediately with water for 15 minutes. Lift upper and lower eyelids for complete rinsing. Get immediate medical attention.	
Skin Contact	Flush with water for 15 minutes. Get medical attention. Remove contaminated clothing and wash before reuse.	
Inhalation	Remove victim from immediate source of exposure to fresh air. If breathing is difficult, administer oxygen if available. If victim is not breathing, administer CPR. If individual experiences nausea, headache, or dizziness, get immediate medical attention.	
Ingestion	Rinse mouth with water. Give water to dilute. Do not induce vomiting. Get immediate medical attention. Never give anything by mouth to a semi-comatose, comatose, convulsing or unconscious person.	
Most important symptoms and effects, both acute and delayed		
Symptoms	Causes severe irritation and or burns.	
Indication of any immediate med	ical attention and special treatment needed	

Note to physicians

Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Dry chemical. Carbon dioxide (CO2).

Unsuitable extinguishing media DO NOT USE WATER.

Specific hazards arising from the chemical

Direct contact with water can cause a violent exothermic reaction. Contact with metals may evolve flammable hydrogen gas.

Explosion data Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions	Evacuate nonessential personnel. Ventilate area. Wear appropriate personal protection equipment.
Environmental precautions	See Section 12 for additional ecological information.
Methods for containment	Stop leak if you can do it without risk. Completely contain spilled material with dikes or sand bags, etc.
Methods for cleaning up	Recover as much material as possible into containers for disposal or reuse. Remaining material may be diluted with water and neutralized. Flush spill area with water. Neutralization products, both solid and liquid, must be recovered for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Do not get in eyes, on skin, or clothing. Do not breathe vapors or mists. Do not ingest. Wash thoroughly after handling. Wear protective clothing/equipment. Use with adequate ventilation. NEVER add water to product. ALWAYS add product, with constant stirring, slowly to surface of water to minimize heat generation and spattering.

Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep containers tightly closed and properly labeled. Containers that have been emptied will retain product residue and should be handled as if they were full. Store in a cool, dry, well-ventilated place away from incompatible materials. Wash hands before eating, drinking, using tobacco, applying make-up or using the toilet. Do not store, use, and/or consume foods, beverages, tobacco in areas where this product is stored.
Incompatible materials	Strong acids and bases; Oxidizing agents; Water; Lithium; Organic materials; Halogens; Metals; Strong reducing agents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sulfuric acid	TWA: 0.2 mg/m ³ thoracic fraction	TWA: 1 mg/m ³	IDLH: 15 mg/m ³
7664-93-9	-	(vacated) TWA: 1 mg/m ³	TWA: 1 mg/m ³

Appropriate engineering controls

Showers Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection	Wear protective splash proof safety goggles. Additional full face protection is recommended if splashing is a possibility.
Skin and body protection	Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate to risk of exposure, to prevent skin contact.
Respiratory protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
General Hygiene Considerations	Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Property Values Remarks • Method	able
pH <1 Melting point/freezing point No information available Boiling point / boiling range No information available Flash point No information available Flash point No information available Evaporation rate No information available Flash point No information available Flammability (solid, gas) No information available Flammability Limit in Air Upper flammability limit: Upper flammability limit: No information available Lower flammability limit: No information available Vapor pressure No information available Vapor density No information available Solubility in other solvents No information available Partition coefficient No information available Autoignition temperature No information available Decomposition temperature No information available Kinematic viscosity No information available Dynamic viscosity No information available<	

Other Information

Softening point
Molecular weight
VOC Content (%)
Density
Bulk density

No information available No information available No information available No information available No information available

10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

Incompatible materials. Contact with water may cause violent reaction with evolution of heat. To dilute: Add product slowly to lukewarm water; not water to product.

Incompatible materials

Strong acids and bases; Oxidizing agents; Water; Lithium; Organic materials; Halogens; Metals; Strong reducing agents

Hazardous Decomposition Products

Oxides of sulfur.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information							
Inhalation	Toxic if inhaled.	Toxic if inhaled.					
Eye contact	Corrosive to the eyes and	Corrosive to the eyes and may cause severe damage including blindness.					
Skin Contact	Contact causes severe ski	Contact causes severe skin irritation and possible burns.					
Ingestion	May be harmful by ingestion	May be harmful by ingestion					
Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50				
Sulfuric acid	= 2140 mg/kg (Rat)	= 2140 mg/kg (Rat) - = 510 mg/m ³ (Rat) 2 h					

Information on toxicological effects

Symptoms

7664-93-9

No information available.

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

Sensitization Germ cell mutagenicity Carcinogenicity	No informati No informati Considered	on available.	sed as a strong mist only	
Chemical Name	ACGIH	IARC	NTP	OSHA
Sulfuric acid 7664-93-9	A2	Group 1	Known	Х
Reproductive toxicity STOT - single exposure	No informatio No informatio			

STOT - repeated exposureNo information available.Aspiration hazardNo information available.						
Numerical measures of toxicity	y - Product Information					
The following values are calcul ATEmix (oral) ATEmix (inhalation-dust/mi	6114 mg/kg	the GHS document				
	12. ECOLOGICA					
<u>Ecotoxicity</u>						
0% of the mixture consists of con	nponents(s) of unknown hazards	s to the aquatic environment				
Chemical Name	Algae/aquatic plants	Fish	Crustacea			
Sulfuric acid 7664-93-9	-	500: 96 h Brachydanio rerio mg/L LC50 static	29: 24 h Daphnia magna mg/L EC50			
Persistence and degradability No information available.						
Bioaccumulation No information available.						
Other adverse effects	No information available					
	13. DISPOSAL C	ONSIDERATIONS				
Waste treatment methods						
Disposal of wastes	Disposal should be in acc regulations.	ordance with applicable regional,	national and local laws and			
Contaminated packaging	Do not reuse container.					

Chemical Name	California Hazardous Waste Status	
Sulfuric acid	Toxic	
7664-93-9	Corrosive	

14. TRANSPORT INFORMATION

Regulated
UN2796
Sulfuric Acid
8
II

15. REGULATORY INFORMATION

International Inventories

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Does not comply
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies
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Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical which is subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372. Sulfuric acid is considered a 313 chemical in aerosol form only.

Chemical Name	Percent by Weight
Sulfuric acid - 7664-93-9	35.2-36.4

SARA 311/312 Hazards Corrosive to metals Acute toxicity - Inhalation (Dusts/Mists) Serious eye damage or eye irritation Skin corrosion or irritation

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sulfuric acid 7664-93-9	1000 lb	-	-	Х

CERCLA

This material, as supplied, contains a substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Sulfuric acid	1000 lb	1000 lb	RQ 1000 lb final RQ
7664-93-9			RQ 454 kg final RQ
	•		•

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals, considered a carcinogen as a strong inorganic acid mist ONLY

Chemical Name	California Proposition 65
Sulfuric acid - 7664-93-9	Carcinogen

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Sulfuric acid	Х	Х	Х
7664-93-9			

U.S. EPA Label Information

EPA Pesticide Registration Number Not Applicable

16. OTHER INFORMATION						
NFPA	Health hazards 3	Flammability 0	Instability 2	Physical and Chemical Properties -		
HMIS	Health hazards 3	Flammability 0	Physical hazards 2	Personal protection X		
Prepared By	Imt					
Issue Date	07-Aug-2	018				
Revision Date	15-Sept-2	2020				
Revision Note						
15-Sept-2020-Updated	Section 15					
Disclaimer						
The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief						

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

End of Safety Data Sheet