# SAFETY DATA SHEET

# 1. Identification

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Product identifier	Sulfuric Acid 25%		
Other means of identification	None.		
Recommended use	Not available.		
Recommended restrictions	None known.		
Manufacturer/Importer/Supplier/	Distributor information		
Manufacturer			
Company name Address	Thatcher Company, Inc. 1905 Fortune Road Salt Lake City, UT 84104 United States		
Telephone	General Assistance 8-5	(801) 972-458	87
E-mail	Not available.		
Emergency phone number	Chemtrec (CCN 22106)	(800) 424-930	00
2. Hazard(s) identification			
Physical hazards	Not classified.		
Health hazards	Acute toxicity, inhalation		Category 2
	Skin corrosion/irritation		Category 1A
	Serious eye damage/eye irritati	on	Category 1
	Carcinogenicity		Category 1A
	Specific target organ toxicity, si	ngle exposure	Category 3 respiratory tract irritation
Environmental hazards	Hazardous to the aquatic environ long-term hazard	onment,	Category 3

OSHA defined hazards

Label elements



Not classified.

Signal word	Danger
Hazard statement	Causes severe skin burns and eye damage. Causes serious eye damage. Fatal if inhaled. May cause respiratory irritation. May cause cancer. Harmful to aquatic life with long lasting effects.
Precautionary statement	
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe vapor. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Wear respiratory protection.
Response	If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Specific treatment is urgent (see this label). Wash contaminated clothing before reuse.
Storage	Store in a well-ventilated place. Keep container tightly closed. Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	75% of the mixture consists of component(s) of unknown acute inhalation toxicity. 75% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Sulfuric acid		7664-93-9	25
Other components below reportab	le levels		75

Other components below reportable levels

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

#### 4. First-aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician or poison control center immediately.
Skin contact	Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.
Ingestion	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Most important symptoms/effects, acute and delayed	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
General information	IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

# 5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media	Powder. Foam. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	Not applicable.
Special protective equipment and precautions for firefighters	Wear suitable protective equipment.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

## 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe vapors or spray mist. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	This product is miscible in water. Should not be released into the environment. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent product from entering drains. Following product recovery, flush area with water.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.

## 7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe vapors or spray mist. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Should be handled in closed systems, if possible. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

Store locked up. Store in original tightly closed container. Store in a well-ventilated place. Store Conditions for safe storage, away from incompatible materials (see Section 10 of the SDS). including any incompatibilities

### 8. Exposure controls/personal protection

#### **Occupational exposure limits**

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Material	Туре	Value	
Sulfuric Acid 25%	PEL	1 mg/m3	
Components	Туре	Value	
Sulfuric acid (CAS 7664-93-9)	PEL	1 mg/m3	
US. ACGIH Threshold Lim Material		Value	Form
	Туре		
Sulfuric Acid 25%	TWA	0.2 mg/m3	Thoracic fraction.
Components	Туре	Value	Form
Sulfuric acid (CAS 7664-93-9)	TWA	0.2 mg/m3	Thoracic fraction.
US. NIOSH: Pocket Guide	to Chemical Hazards		
Material	Туре	Value	
Sulfuric Acid 25%	TWA	1 mg/m3	
Components	Туре	Value	
Sulfuric acid (CAS 7664-93-9)	TWA	1 mg/m3	
ological limit values	No biological exposure limits noted fo	or the ingredient(s).	
propriate engineering ntrols	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.		
lividual protection measure	s, such as personal protective equipm	ent	
Eye/face protection	Chemical respirator with organic vapo	or cartridge and full facepiece.	
Skin protection Hand protection	Wear appropriate chemical resistant of supplier.	gloves. Suitable gloves can be	recommended by the glove
Other	Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.		
Respiratory protection	Chemical respirator with organic vapor cartridge and full facepiece.		
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.		
neral hygiene	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.		

### 9. Physical and chemical properties

Liquid.
Liquid.
Not available.

### 10. Stability and reactivity

Reactivity	Reacts violently with strong alkaline substances. This product may react with reducing agents.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Do not mix with other chemicals. Contact with incompatible materials.
Incompatible materials	Bases. Reducing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

# 11. Toxicological information

## Information on likely routes of exposure

Inhalation	Fatal if inhaled.
Skin contact	Causes severe skin burns.
Eye contact	Causes serious eye damage.
Ingestion	Causes digestive tract burns.
Symptoms related to the physical, chemical and toxicological characteristics	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation.
Information on toxicological effe	ects

# Acute toxicity

Fatal if inhaled. May cause respiratory irritation.

Product	Species	Test Results	
Sulfuric Acid 25%			
<u>Acute</u>			
Inhalation			
LC50	Guinea pig	0.018 mg/l, 8 Hours	
	Rat	347 mg/l, 1 Hours	
Oral			
LD50	Rat	2140 mg/kg	
Components	Species	Test Results	
Sulfuric acid (CAS 7664-93-9)			
<u>Acute</u>			
Inhalation			
LC50	Guinea pig	0.018 mg/l, 8 Hours	
	Rat	347 mg/l, 1 Hours	
Oral			
LD50	Rat	2140 mg/kg	
	be based on additional component data not s		
Skin corrosion/irritation	Causes severe skin burns and eye damag	ge.	
Serious eye damage/eye rritation	Causes serious eye damage.		
Respiratory or skin sensitizatio	n		
<b>Respiratory sensitization</b>	Not a respiratory sensitizer.		
Skin sensitization	This product is not expected to cause skin sensitization.		
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.		
Carcinogenicity	May cause cancer.		
Sulfuric acid (CAS 7664 US. National Toxicology Pr Sulfuric acid (CAS 7664 US. OSHA Specifically Reg	ogram (NTP) Report on Carcinogens	genic to humans. Be Human Carcinogen. <b>50)</b>	
Not listed.	<del>-</del>		
Reproductive toxicity	This product is not expected to cause rep	roductive or developmental effects.	
Specific target organ toxicity - single exposure	May cause respiratory irritation.		
Specific target organ toxicity - repeated exposure	Not classified.	Not classified.	
Aspiration hazard	Not an aspiration hazard.	Not an aspiration hazard.	
Chronic effects	Prolonged inhalation may be harmful. Pro	Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.	
12. Ecological information			
Ecotoxicity	Harmful to aquatic life with long lasting effects. Because of the low pH of this product, it would be expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems.		
Components	Species	Test Results	
Sulfuric acid (CAS 7664-93-9	-		
Aquatic	,		
Fish	LC50 Western mosquitofish (Ga	mbusia affinis) 42 mg/l, 96 hours	
* Estimates for product may I	be based on additional component data not s	hown.	
Persistence and degradability	No data is available on the degradability of		
s. sistemes and degradability			
Rioaccumulative notential	No data available		
Bioaccumulative potential Mobility in soil	No data available. No data available.		

**Other adverse effects** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

### **13. Disposal considerations**

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

# 14. Transport information

DOT	
UN number	UN2796
UN proper shipping name	Sulfuric acid with not more than 51% acid
Transport hazard class(es)	
Class	8
Subsidiary risk	-
Label(s)	8
Packing group	II
	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	A3, A7, B2, B15, IB2, N6, N34, T8, TP2, TP12
Packaging exceptions	154
Packaging non bulk	202
Packaging bulk	242
DOT BULK	
BULK	
UN number	UN2796
UN proper shipping name	Sulfuric acid with not more than 51% acid
Transport hazard class(es)	
Class	8
Label(s)	8
Packing group	II
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	A3, A7, B2, B15, IB2, N6, N34, T8, TP2, TP12
Packaging exceptions	154
Packaging non bulk	202
Packaging bulk	242
ΙΑΤΑ	
UN number	UN2796
UN proper shipping name	Battery fluid, acid
Transport hazard class(es)	
Class	8
Subsidiary risk	-
Packing group	II
Environmental hazards	No.
ERG Code	8L
	Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo	Allowed.
aircraft	A.U
Cargo aircraft only	Allowed.
IMDG	
UN number	UN2796

UN proper shipping name	SULPHURIC ACID with not more than 51% acid or BATTERY FLUID, ACID
Transport hazard class(es)	
Class	8
Subsidiary risk	-
Packing group	II
Environmental hazards	
Marine pollutant	No.
EmS	F-A, S-B
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to	Not established.
Annex II of MARPOL 73/78 and	
the IBC Code	
DOT; DOT Bulk packaging type	
CORROSIVE 8	

IATA; IMDG



# 15. Regulatory information

S federal regulations		This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.			
TSCA Section 12(b) I	Export Notification	(40 CFR 707, Sι	ıbpt. D)		
Not regulated.					
<b>CERCLA Hazardous</b>	Substance List (40	CFR 302.4)			
Sulfuric acid (CAS 7664-93-9)			Listed.		
SARA 304 Emergenc	y release notification	on			
Sulfuric acid (CAS	5 7664-93-9)		1000 LBS		
US. OSHA Specifical	ly Regulated Substa	ances (29 CFR <sup>·</sup>	1910.1001-1050)		
Not listed.					
uperfund Amendments	and Reauthorizatio	n Act of 1986 (S	SARA)		
Hazard categories	Delayed Ha Fire Hazard Pressure H	Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No			
SARA 302 Extremely	hazardous substar	nce			
Chemical name	CAS number	Reportable quantity	Threshold planning quantity	Threshold planning quantity, lower value	Threshold planning quantity, upper value
Sulfuric acid	7664-93-9	1000	1000 lbs		
SARA 311/312 Hazar chemical	<b>dous</b> No				

SARA 313 (TRI reporting) Chemical name		CAS number	% by wt.
Sulfuric acid		7664-93-9	25
Other federal regulations			
Clean Air Act (CAA) Section	on 112 Hazardous Air Pollut	ants (HAPs) List	
Not regulated. Clean Air Act (CAA) Section	on 112(r) Accidental Release	Prevention (40 CFR	68.130)
Sulfuric acid (CAS 766	4-93-9)		
Clean Water Act (CWA) Section 112(r) (40 CFR 68.130)	Hazardous substance		
Safe Drinking Water Act (SDWA)	Not regulated.		
Drug Enforcement Ad Chemical Code Numb		ssential Chemicals (2	21 CFR 1310.02(b) and 1310.04(f)(2) and
Sulfuric acid (CAS		6552	
-	. ,	•	/lixtures (21 CFR 1310.12(c))
Sulfuric acid (CAS	7664-93-9) al Mixtures Code Number	20 %WV	
Sulfuric acid (CAS		6552	
Food and Drug	Total food additive	0002	
Administration (FDA)	Direct food additive GRAS food additive		
US state regulations			
US - New Jersey RTK - Su	bstances: Listed substance	1	
Sulfuric acid (CAS 766 US. California Controlled	,	t of Justice (California	a Health and Safety Code Section 11100)
Not listed.	-		
US. California. Candidate (a))	Chemicals List. Safer Consu	umer Products Regula	ations (Cal. Code Regs, tit. 22, 69502.3, subd.
Sulfuric acid (CAS 766 US. Massachusetts RTK -	Substance List		
Sulfuric acid (CAS 766		w A of	
Sulfuric acid (CAS 766	nd Community Right-to-Kno	WACI	
US. Pennsylvania RTK - H	azardous Substances		
Sulfuric acid (CAS 766 US Pennsylvania Worker	and Community Right-to-Kr	low I aw	
Sulfuric acid (CAS 766 US. Rhode Island RTK			
Sulfuric acid (CAS 766	4-93-9)		
US. California Proposition			
•	ct contains a chemical known	to the State of Californ	a to cause cancer.
US - California Propo	sition 65 - CRT: Listed date/	Carcinogenic substar	ice
Sulfuric acid (CAS	7664-93-9)	Listed: March 14	, 2003
International Inventories			
Country(s) or region	Inventory name		On inventory (yes/no)*
Australia	Australian Inventory of Ch	emical Substances (Al	
Canada	Domestic Substances List	t (DSL)	Yes
Canada	Non-Domestic Substance	s List (NDSL)	No
China	Inventory of Existing Cher	nical Substances in Ch	ina (IECSC) Yes
Europe	European Inventory of Ex Substances (EINECS)	isting Commercial Che	mical Yes
Europe	European List of Notified	Chemical Substances (	ELINCS) No
Japan	Inventory of Existing and I	New Chemical Substar	nces (ENCS) Yes
•	, ,		· · ·

Country(s) or region	Inventory name	On inventory (yes/no)*
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

# 16. Other information, including date of preparation or last revision

Issue date	03-02-2018
Version #	01
NFPA ratings	Health: 4 Flammability: 0 Instability: 0
NFPA ratings	
Disclaimer	Thatcher Company cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.
Revision Information	Product and Company Identification: Product Codes