

# SAFETY DATA SHEET

## 1. Identification

<b>Product identifier</b>	<b>Sulfuric Acid 93%</b>	
<b>Other means of identification</b>		
<b>SDS Number</b>	AUC-001	
<b>Synonyms</b>	Sulfuric Acid Solution * Oil of vitriol * Battery Acid	
<b>Recommended use</b>	Water treatment and other industrial uses	
<b>Recommended restrictions</b>	Professional Use Only	
<b>Manufacturer/Importer/Supplier/Distributor information</b>		
<b>Manufacturer</b>		
<b>Company name</b>	Allied Universal Corporation	
<b>Address</b>	3901 N.W. 115th Avenue Miami, FL 33178 United States	
<b>Telephone</b>	General:	1-305-888-2623
	24-Hour alert:	1-786-522-0207
<b>Website</b>	www.allieduniversal.com	
<b>E-mail</b>	Not available.	
<b>Contact person</b>	Operations Department	1-800-424-9300 (US/Canada)
<b>Emergency phone number</b>	CHEMTREC	+01 703-527-3887 (International)
<b>Supplier</b>	Refer to Manufacturer	

## 2. Hazard(s) identification

<b>Physical hazards</b>	Corrosive to metals	Category 1
<b>Health hazards</b>	Acute toxicity, inhalation	Category 2
	Skin corrosion/irritation	Category 1
	Serious eye damage/eye irritation	Category 1
	Carcinogenicity	Category 1A
	Specific target organ toxicity, single exposure	Category 3 respiratory tract irritation
<b>Environmental hazards</b>	This mixture does not meet the classification criteria according to OSHA HazCom 2012.	
<b>OSHA defined hazards</b>	This mixture does not meet the classification criteria according to OSHA HazCom 2012.	
<b>Label elements</b>		



<b>Signal word</b>	Danger
<b>Hazard statement</b>	May be corrosive to metals. May cause cancer. Causes severe skin burns and eye damage. Fatal if inhaled. May cause respiratory irritation.
<b>Precautionary statement</b>	
<b>Prevention</b>	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear respiratory protection. Wear protective gloves/clothing and eye/face protection. Keep only in original container. Do not breathe mist.
<b>Response</b>	IF exposed or concerned: Get medical advice/attention. Specific treatment is urgent (see this label). IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. 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/doctor. Absorb spillage to prevent material damage.

<b>Storage</b>	Store in a well-ventilated place. Keep container tightly closed. Store locked up. Store in corrosive resistant container with a resistant inner liner.
<b>Disposal</b>	Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Hazard(s) not otherwise classified (HNOC)</b>	No OSHA defined hazard classes. Other hazards which do not result in classification: Contact with most metals will generate flammable hydrogen gas. Reacts violently with water with evolution of heat. Reacts violently with a wide variety of organic and inorganic chemicals including alcohol, carbides, chlorates, picrates, nitrates and metals. In extreme cases, tooth erosion could result. Chronic skin contact with low concentrations may cause dermatitis.
<b>Supplemental information</b>	None.

### 3. Composition/information on ingredients

#### Mixtures

Chemical name	Common name and synonyms	CAS number	%
Sulfuric Acid	Hydrogen Sulphate Oil of Vitriol	7664-93-9	93 - 98
WATER	Dihydrogen oxide	7732-18-5	Balance

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

### 4. First-aid measures

<b>Inhalation</b>	IF INHALED: Remove person to fresh air and keep comfortable for breathing. If breathing is difficult, trained personnel should give oxygen. If breathing stops, provide artificial respiration. Call a physician or poison control center immediately.
<b>Skin contact</b>	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Duration of rinsing should be at least 20 minutes. Cover wound with sterile dressing. Do not rub area of contact. Wash contaminated clothing before reuse. Leather and shoes that have been contaminated with the solution may need to be destroyed. Call a physician or poison control center immediately.
<b>Eye contact</b>	IF IN EYES: Rinse cautiously with water for several minutes. Duration of rinsing should be at least 20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Take care not to rinse contaminated water into the unaffected eye or onto the face. Call a physician or poison control center immediately.
<b>Ingestion</b>	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do not induce vomiting. Rinse mouth. Never give anything by mouth to a victim who is unconscious or is having convulsions.
<b>Most important symptoms/effects, acute and delayed</b>	May be fatal if inhaled. Can cause severe respiratory irritation. Symptoms may include coughing, choking and wheezing. Inhalation could result in pulmonary edema (fluid accumulation). Symptoms of pulmonary edema (chest pain, shortness of breath) may be delayed. May result in unconsciousness and possibly death. Direct skin contact may cause corrosive skin burns, deep ulcerations and possibly permanent scarring. Corrosive to the eyes and may cause severe damage including blindness. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause severe irritation and corrosive damage in the mouth, throat and stomach. Symptoms may include abdominal pain, vomiting, burns, perforations, bleeding and eventually death.
<b>Indication of immediate medical attention and special treatment needed</b>	Immediate medical attention is required. Causes chemical burns. May be fatal if inhaled. Symptoms may be delayed.
<b>General information</b>	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

<b>Suitable extinguishing media</b>	Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical. Use water with caution. Contact with water will generate considerable heat.
<b>Unsuitable extinguishing media</b>	Use chemical extinguishing agents with caution. Some chemical extinguishing agents may react with this material.
<b>Specific hazards arising from the chemical</b>	Not considered flammable. Vapors are heavier than air and may spread along floors. Contact with most metals will generate flammable hydrogen gas. Reacts violently with water with evolution of heat. Contact with combustible material may cause fire. Reacts violently with a wide variety of organic and inorganic chemicals including alcohol, carbides, chlorates, picrates, nitrates and metals. Toxic fumes, gases or vapors may evolve on burning.

**Special protective equipment and precautions for firefighters**

Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. A full-body chemical resistant suit should be worn.

**Fire fighting equipment/instructions**

Fight fire with normal precautions from a reasonable distance. Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Evacuate the area promptly. Move containers from fire area if you can do it without risk. Use water spray to cool unopened containers. Fight fire from upwind to avoid exposure to combustion products. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

**Specific methods**

Use standard firefighting procedures and consider the hazards of other involved materials.

**Hazardous combustion products**

Toxic fumes, gases or vapors may evolve on burning. Sulfur oxides.

**6. Accidental release measures****Personal precautions, protective equipment and emergency procedures**

Immediately evacuate personnel to safe areas. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. For personal protection, see section 8 of the SDS.

**Methods and materials for containment and cleaning up**

Ventilate the area. Remove sources of ignition. Stop leak if you can do so without risk. Absorb spillage to prevent material damage. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.

Small Spills: Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand). Dilute Acid with water and neutralize with Sodium Carbonate (soda ash) or lime. Clean surface thoroughly to remove residual contamination.

Large Spills: Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. Do not flush into surface water or sanitary sewer system. If not recoverable, dilute with water or flush to holding area and neutralize. Remove with vacuum trucks or pump to storage/salvage vessels.

Never return spills to original containers for re-use. Contaminated absorbent material may pose the same hazards as the spilled product. For waste disposal, see section 13 of the SDS.

**Environmental precautions**

Avoid discharge into drains, water courses or onto the ground. Contact local authorities in case of spillage to drain/aquatic environment.

**7. Handling and storage****Precautions for safe handling**

Use only outdoors or in a well-ventilated area. Wear chemically resistant protective equipment during handling. Do not breathe mist. Do not taste or swallow. Avoid contact with eyes, skin and clothing. Keep away from heat. Keep away from metals and other incompatibles. When preparing or diluting solution, always add to water, slowly and with stirring. When diluting, always add the product to water. Never add water to the product. Label containers appropriately. Wash thoroughly after handling. When using, do not eat, drink or smoke. Avoid release to the environment.

**Conditions for safe storage, including any incompatibilities**

Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Store locked up. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Store away from incompatible materials (see Section 10 of the SDS). Store in original tightly closed container. Store in corrosive resistant container with a resistant inner liner.

**8. Exposure controls/personal protection****Occupational exposure limits****US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

Components	Type	Value
Sulfuric Acid (CAS 7664-93-9)	PEL	1 mg/m <sup>3</sup>

**US. ACGIH Threshold Limit Values**

Components	Type	Value	Form
Sulfuric Acid (CAS 7664-93-9)	TWA	0.2 mg/m <sup>3</sup>	Thoracic fraction.

**US. NIOSH: Pocket Guide to Chemical Hazards**

Components	Type	Value
Sulfuric Acid (CAS 7664-93-9)	TWA	1 mg/m <sup>3</sup>

<b>Biological limit values</b>	No biological exposure limits noted for the ingredient(s).
<b>Exposure guidelines</b>	The NIOSH IDLH concentration for Sulfuric Acid is 15 mg/m3. The purpose of establishing an IDLH value is to ensure that the worker can escape from a given contaminated environment in the event of failure of the most protective respiratory protection equipment. In the event of failure of respiratory protection equipment every effort should be made to exit immediately.
<b>Appropriate engineering controls</b>	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.
<b>Individual protection measures, such as personal protective equipment</b>	
<b>Eye/face protection</b>	Chemical goggles and face shield are recommended. Eye wash fountains are required.
<b>Skin protection</b>	
<b>Hand protection</b>	Wear appropriate chemical resistant gloves. Advice should be sought from glove suppliers.
<b>Other</b>	Where contact is likely, wear chemical-resistant gloves, a chemical suit, rubber boots, and chemical safety goggles plus a face shield. A chemical protective full-body encapsulating suit may be required in some operations. Eye wash facilities and emergency shower must be available when handling this product.
<b>Respiratory protection</b>	In case of insufficient ventilation, wear suitable respiratory equipment. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134). Seek advice from respiratory protection specialists.
<b>Thermal hazards</b>	Not applicable.
<b>General hygiene considerations</b>	Do not breathe mist. Avoid contact with eyes, skin and clothing. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse. Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical and chemical properties

### Appearance

<b>Physical state</b>	Liquid.
<b>Form</b>	Oily liquid.
<b>Color</b>	Clear, colorless
<b>Odor</b>	Odorless.
<b>Odor threshold</b>	Not available.
<b>pH</b>	1 (1% Solution)
<b>Melting point/freezing point</b>	- 40 to 30°F (- 40 to - 1°C)
<b>Initial boiling point and boiling range</b>	995 - 1086.8 °F (535 - 586 °C)
<b>Flash point</b>	Not Applicable (Does not burn)
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not Applicable
<b>Flammability limit - upper (%)</b>	Not Applicable
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit - upper (%)</b>	Not available.
<b>Vapor pressure</b>	< 1 mm Hg @ 77°F
<b>Vapor density</b>	Not available.
<b>Relative density</b>	Not available.
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Soluble in all proportions.
<b>Solubility (other)</b>	Decomposes in Ethanol.

<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	644 °F (340 °C)
<b>Viscosity</b>	13.6 mm <sup>2</sup> /s (100%)
<b>Viscosity temperature</b>	77 °F (25 °C)
<b>Other information</b>	
<b>Chemical family</b>	Mineral Acid.
<b>Explosive properties</b>	Not explosive.
<b>Molecular formula</b>	H <sub>2</sub> SO <sub>4</sub>
<b>Molecular weight</b>	98.08
<b>Oxidizing properties</b>	No oxidizing properties.
<b>Percent volatile</b>	0 % 77°F
<b>Specific gravity</b>	1.84
<b>Surface tension</b>	49.6 dynes/cm at 30°C (100%)

## 10. Stability and reactivity

<b>Reactivity</b>	Reacts violently with water with evolution of heat. Contact with most metals will generate flammable hydrogen gas. May be corrosive to metals. May be corrosive to: Aluminum, brass, bronze carbon steel, stainless steel, nickel, copper, cast iron.
<b>Chemical stability</b>	Material is stable under normal conditions. Decomposes at ~ 340°C to form sulphur trioxide.
<b>Possibility of hazardous reactions</b>	Reacts violently with a wide variety of organic and inorganic chemicals including alcohol, carbides, chlorates, picrates, nitrates and metals. Acetaldehyde and allyl chloride may polymerize violently in the presence of sulfuric acid. Hazardous gases, such as hydrogen cyanide, hydrogen sulfide and acetylene, are evolved on contact with chemicals such as cyanides, sulfides and carbides.
<b>Conditions to avoid</b>	Avoid high temperatures. Contact with incompatible materials. Do not use in areas without adequate ventilation.
<b>Incompatible materials</b>	Metals. Bases. Water. Strong oxidizing agents. Strong acids. Alcohols. Carbides. Picrates. Chlorates. Nitrates. Sulfides. Cyanides.
<b>Hazardous decomposition products</b>	None known, refer to hazardous combustion products in Section 5. The following may be released during a fire: Sulfur oxides.

## 11. Toxicological information

### Information on likely routes of exposure

<b>Inhalation</b>	Fatal if inhaled.
<b>Skin contact</b>	Causes severe skin burns. Not expected to be absorbed through the skin.
<b>Eye contact</b>	Causes serious eye damage.
<b>Ingestion</b>	Causes digestive tract burns.

**Most important symptoms/effects, acute and delayed**

May be fatal if inhaled. Can cause severe respiratory irritation. Symptoms may include coughing, choking and wheezing. Inhalation could result in pulmonary edema (fluid accumulation). Symptoms of pulmonary edema (chest pain, shortness of breath) may be delayed. May result in unconsciousness and possibly death. Direct skin contact may cause corrosive skin burns, deep ulcerations and possibly permanent scarring. Corrosive to the eyes and may cause severe damage including blindness. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause severe irritation and corrosive damage in the mouth, throat and stomach. Symptoms may include abdominal pain, vomiting, burns, perforations, bleeding and eventually death.

### Information on toxicological effects

**Acute toxicity**

Fatal if inhaled. The below product data is the calculated ATE values for this mixture. Individual ingredient component data appears below the product mixture ATE values.

Product	Species	Test Results
Sulfuric Acid 93% (CAS Mixture)		
<b>Acute</b>		
<i>Inhalation</i>		
LC50	Rat	0.375 - 0.536 mg/l, 4 hours (mist)

Product	Species	Test Results
Oral LD50	Rat	2140 - 3058 mg/kg
Components	Species	Test Results
Sulfuric Acid (CAS 7664-93-9)		
<b>Acute</b>		
<i>Dermal</i>		
	Rabbit	No Data in Literature
<i>Inhalation</i>		
LC50	Rat	0.375 mg/l, 4 hours (mist)
<i>Oral</i>		
LD50	Rat	2140 mg/kg
WATER (CAS 7732-18-5)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	Not available.
<i>Inhalation</i>		
LC50	Rat	Not available.
<i>Oral</i>		
LD50	Rat	> 89840 mg/kg
<b>Skin corrosion/irritation</b>	Hazardous by OSHA criteria. Skin corrosion/irritation - Category 1. Causes severe skin burns and eye damage.	
<b>Serious eye damage/eye irritation</b>	Hazardous by OSHA criteria. Serious eye damage/eye irritation - Category 1. Causes serious eye damage.	
<b>Respiratory or skin sensitization</b>		
<b>Respiratory sensitization</b>	Not expected to be a respiratory sensitizer.	
<b>Skin sensitizer</b>	Causes skin burns.	
<b>Germ cell mutagenicity</b>	Not expected to be mutagenic.	
<b>Carcinogenicity</b>	Hazardous by OSHA criteria. Carcinogenicity - Category 1A. May cause cancer. This product may form mists. Occupational exposure to strong inorganic acid mists containing sulfuric acid is carcinogenic to humans. The information located is insufficient to conclude that sulfuric acid itself is a carcinogen. IARC has concluded there is sufficient evidence that occupational exposure to strong inorganic acid mists containing sulfuric acid is carcinogenic to humans (Group 1). ACGIH has designated strong inorganic acid mists containing sulfuric acid as A2 (suspected human carcinogen). US NTP has listed strong inorganic acid mists containing sulfuric acid as a known human carcinogen. These classifications are for inorganic acid mists containing sulfuric acid and does not apply to sulfuric acid or sulfuric acid solutions.	
Ingredients are present on the following lists:		
<b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>		
Sulfuric Acid (CAS 7664-93-9)		1 Carcinogenic to humans.
<b>OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)</b>		
Not listed.		
<b>US. National Toxicology Program (NTP) Report on Carcinogens</b>		
Sulfuric Acid (CAS 7664-93-9)		Known To Be Human Carcinogen.
<b>Reproductive toxicity</b>	This product is not expected to cause reproductive or developmental effects.	
<b>Specific target organ toxicity - single exposure</b>	Hazardous by OSHA criteria. The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation. May cause respiratory irritation.	
<b>Specific target organ toxicity - repeated exposure</b>	Not classified as a specific target organ toxicity -repeated exposure.	
<b>Aspiration toxicity</b>	Not expected to be an aspiration hazard.	
<b>Chronic effects</b>	Chronic skin contact with low concentrations may cause dermatitis. In extreme cases, tooth erosion could result.	

## 12. Ecological information

**Ecotoxicity** Because of the low pH of this product, it would be expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems. However, it may be neutralized by naturally occurring alkalinity in the environment. The ingredient ecotoxicity data appearing above is expected to be primarily associated with pH.

Components		Species	Test Results
Sulfuric Acid (CAS 7664-93-9)			
<b>Aquatic</b>			
<i>Acute</i>			
Algae	EC50	Green Algae ( <i>Pseudokirchneriella subcapitata</i> )	> 100 mg/l, 72 hours
Crustacea	EC50	Water flea ( <i>Daphnia magna</i> )	29 mg/l, 24 hours
Fish	LC50	Bluegill ( <i>Lepomis macrochirus</i> )	16 - 28 mg/l, 96 hours

**Persistence and degradability** Biodegradation is not applicable to inorganic substances.

**Bioaccumulative potential** No accumulation in living organisms is expected due to high solubility and dissociation properties.

**Mobility in soil** High water solubility indicates a high mobility in soil.

**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. Dispose in accordance with all applicable 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** Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

## 14. Transport information

### DOT

**UN number** UN1830 Sulfuric Acid

**UN proper shipping name**

**Transport hazard class(es)**

**Class** 8

**Subsidiary risk** -

**Label(s)** 8

**Packing group** II

**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.  
US CERCLA Reportable Quantity (RQ): 1000 lbs / 454 kg

**Special provisions** A3, A7, B3, B83, B84, IB2, N34, T8, TP2, TP12

**Packaging exceptions** 154

**Packaging non bulk** 202

**Packaging bulk** 242

### IATA

**UN number** UN1830 Sulfuric Acid

**UN proper shipping name**

**Transport hazard class(es)**

**Class** 8

**Subsidiary risk** -

**Packing group** II

**Environmental hazards** No.

**ERG Code** 8L

**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.  
Refer to the appropriate Packing Instruction, prior to shipping this material. Review all State and Operator Variations, prior to shipping this material.

**Other information**

**Passenger and cargo aircraft** Allowed.

**Cargo aircraft only** Allowed.

**IMDG**

**UN number** UN1830

**UN proper shipping name** Sulfuric 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 Annex II of MARPOL 73/78 and the IBC Code** This substance/mixture is not intended to be transported in bulk.

**DOT**



**IATA; IMDG**



## 15. Regulatory information

**US federal regulations**

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.  
All components are on the U.S. EPA TSCA Inventory List.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

Sulfuric Acid (CAS 7664-93-9) **SARA** Listed.

**304 Emergency release notification**

Sulfuric Acid (CAS 7664-93-9) 1000 LBS

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not listed.



**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories**  
 Immediate Hazard - Yes  
 Delayed Hazard - Yes  
 Fire Hazard - No  
 Pressure Hazard - No  
 Reactivity Hazard - Yes

**SARA 302 Extremely hazardous substance**

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 Hazardous chemical**  
 No

**SARA 313 (TRI reporting)**

Chemical name	CAS number	% by wt.
Sulfuric Acid	7664-93-9	93 - 98

**Other federal regulations****Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Sulfuric Acid (CAS 7664-93-9)

**Safe Drinking Water Act (SDWA)**  
 Not regulated.

**Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number**

Sulfuric Acid (CAS 7664-93-9) 6552

**Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))**

Sulfuric Acid (CAS 7664-93-9) 20 %WV

**DEA Exempt Chemical Mixtures Code Number**

Sulfuric Acid (CAS 7664-93-9) 6552

**US state regulations****US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)**

Not listed.

**US. Massachusetts RTK - Substance List**

Sulfuric Acid (CAS 7664-93-9)

**US. New Jersey Worker and Community Right-to-Know Act**

Sulfuric Acid (CAS 7664-93-9)

**US. Pennsylvania Worker and Community Right-to-Know Law**

Sulfuric Acid (CAS 7664-93-9)

**US. Rhode Island RTK**

Sulfuric Acid (CAS 7664-93-9)

**US. California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

**US - California Proposition 65 - CRT: Listed date/Carcinogenic substance**

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 Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (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	11-11-2014
Version #	01
HMIS Rating	H= 3, F= 0, R= 2
NFPA Rating	H= 3, F= 0, I= 2, Other: No Water

### List of abbreviations

ACGIH: American Conference of Governmental Industrial Hygienists  
CAS: Chemical Abstract Services  
CERCLA: Comprehensive Environmental Response, Compensation and Liability Act of 1980  
CFR: Code of Federal Regulations  
CSA: Canadian Standards Association  
DOT: Department of Transportation  
DSL: Domestic Substance List  
HMIS: Hazardous Materials Identification System  
HPA: Hazardous Products Act  
HSDB® - Hazardous Substances Data Bank  
IARC: International Agency for Research on Cancer  
IATA: International Air Transport Association  
IDLH: immediately dangerous to life or health  
IMDG: International Maritime Dangerous Goods  
LC: Lethal Concentration  
LD: Lethal Dose  
NFPA: National Fire Protection Association  
NIOSH: National Institute of Occupational Safety and Health  
NTP: National Toxicology Program  
OECD: Organization for Economic Co operation and Development  
OEL: National occupational exposure limits  
OSHA: Occupational Safety and Health Administration  
PPE: Personal Protective Equipment  
RTECS: Registry of Toxic Effects of Chemical Substances  
SAR: supplied-air respirator  
SARA: Superfund Amendments and Reauthorization Act  
SCBA: self-contained breathing apparatus  
STEL: Short Term Exposure Limit  
TWA: Time Weighted Average  
Prepared by: ICC The Compliance Center Inc. 1-888-442-9628  
<http://www.thecompliancecenter.com>

### Disclaimer

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