



## Univar USA Inc Safety Data Sheet

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(425) 889 3400

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### Emergency Assistance

For emergency assistance involving chemicals call  
Chemtrec - (800) 424-9300

## Safety Data Sheet (SDS)

*Sulfuric Acid Solution 35%*

Revision Date: 06/01/2015

### Section 1: Identification

**Product Name:** Sulfuric Acid Solution 35%

**Synonyms:** Sulfuric Acid

**Product Use Description:** Industrial applications

**Manufacturer/Supplier:** ChemQuest Chemicals  
9730 Bay Area Blvd.  
Pasadena, Texas 77507

**Telephone:** (281) 291 - 9966

**Emergency Contact Number:** (800) 424 - 9300 CHEMTREC

### Section 2: Hazard(s) Identification

**Classifications:** Metal corrosion H290  
Fatal if swallowed H300  
Harmful if swallowed H302  
Skin corrosion H314  
Harmful if inhaled H332

**Pictograms:**



**GHS05**



**GHS07**

**Signal Word:** Danger; Warning

**Hazard Statements:** H290 – May be corrosive to metals  
H300 – Fatal if swallowed  
H302 – Harmful if swallowed  
H314 – Causes severe skin burns and eye damage  
H332 – Harmful if inhaled

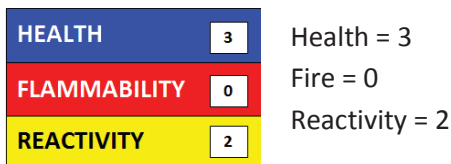
**Precautionary Statements:** P234 – Keep in original container.  
P260 – Do not breathe mist, spray, and vapors.

P264 – Wash exposed skin thoroughly after handling.  
 P270 – Do not eat, drink or smoke when using this product.  
 P271 – Use only outdoors or in a well-ventilated area.  
 P280 – Wear protective gloves/protective clothing/eye protection/face protection.  
 P301+P310 – IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
 P301+P330+P331 – IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
 P303+P361+P353 – IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P304+P340 – IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310 – Immediately call a POISON CENTER or doctor/physician.  
 P321 – Specific treatment (see...on this label).  
 P330 – Rinse mouth.  
 P363 – Wash contaminated clothing before reuse.  
 P390 – Absorb spillage to prevent material damage.  
 P403+P233 – Store in a well-ventilated place. Keep container tightly closed.  
 P405 – Store locked up.  
 P406 – Store in corrosive resistant containers with a resistant inner liner.  
 P501 – Dispose of contents/container to comply with local, state and federal regulations.

**NFPA Ratings: (scale 0-4)**



**HMIS Ratings: (scale 0-4)**



### Section 3: Composition/Information on Ingredients

#### Chemical characterization: Mixtures/Substances?

<i>Component</i>	<i>CAS – No.</i>	<i>Weight %</i>	<i>GHS-US Classification</i>
Sulfuric Acid	7664-93-9	35%	H290 – May be corrosive to metals H300 – Fatal if swallowed H302 – Harmful if swallowed H314 – Causes severe skin burns and eye damage H332 – Harmful if inhaled

### Section 4: First-Aid Measures

<b>Inhalation:</b>	Move patient to obtain fresh air. Allow the victim to rest. Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician/doctor.
<b>Skin Contact:</b>	Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician.
<b>Eye Contact:</b>	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.
<b>Ingestion:</b>	Rinse mouth. DO NOT induce vomiting. If victim is conscious and alert, give 2-4 capfuls of milk or water. Never give anything by mouth to an unconscious person. Immediately call a POISON CENTER or doctor/physician.
<b>Information for doctor:</b>	All treatments should be based on observed signs and symptoms of distress given by the patient. Monitor arterial blood gases, chest x-ray, and pulmonary function tests if respiratory tract irritation or respiratory depression is evident. Treat dermal irritation or burns with the standard topical therapy. Do NOT use sodium bicarbonate in an attempt to neutralize the acid.
<b>Most important symptoms and effects, both acute and delayed:</b>	Causes severe skin burns and eye damage. May cause gastrointestinal burns with nausea, vomiting and diarrhea. Inhalation can result in inflammation and edema of the lungs, larynx, and bronchi.

### Section 5: Fire-Fighting Measures

<b>Suitable extinguishing agents:</b>	For small fires use dry chemical or carbon dioxide (CO <sub>2</sub> ). Do NOT use water on fire. Expect violent reaction with water. For large fires, flood area with water from A DISTANCE. Do NOT get solid stream of water on spilled material.
<b>Special hazards arising</b>	Contact with metals may evolve into flammable hydrogen gas. Do

<b>From substance or mixture:</b>	NOT get water inside containers. Reacts violently with water and organic materials with evolution of heat and sulfur dioxide.
<b>Recommendations for firefighters:</b>	Oxidizing material contributes to combustion of other materials. Cool the fire exposed containers/tanks with water spray (Do NOT get water inside containers). Wear self-contained breathing apparatus (NIOSH-approved) and full protective equipment (eye, body, and respiratory). Prevent spillage from entering drains or waterways.
<b>Protective equipment:</b>	Wear OSHA standard goggles or face shield. Wear self-contained breathing apparatus (NIOSH-approved) if necessary. Wear gloves, apron, and footwear impervious to this material.

**Section 6: Accidental Release Measures**

<b>Personal precautions:</b>	Wear full face shield. Goggles. Rubber Gloves. Cartridge Mask. Rubber Boots. Slicker Suit.
<b>Emergency procedures:</b>	Shut off or remove all ignition sources. Evacuate unnecessary personnel. Ventilate area.
<b>Environmental precautions:</b>	Prevent entry to sewers and public water. Notify the authorities if liquid enters sewers or public waters.
<b>Methods for cleaning up:</b>	Dike the flow of spilled material and absorb spills with absorbent vermiculite or sand and place in suitable containers for later disposal. Neutralize with soda ash or lime.

**Section 7: Handling and Storage**

<b>Precautions for safe handling:</b>	Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide proper ventilation. Do not ingest. Do not breathe gas/fumes/vapor/spray. Do not add water to this product add acid to water slowly. Avoid contact with skin or eyes. Wear proper protective equipment when handling this material (See Section 8).
<b>Conditions for safe storage, Including incompatibilities:</b>	Store in a cool, dry, well ventilated place, in a securely closed container that is corrosive proof. Do not store near combustible materials or alkaline substances.

**Section 8: Exposure Controls/Personal Protection**

<b>Exposure Guidelines</b>				
List	Components	CAS-NO.	Type	Value
OSHA (PEL)	Sulfuric Acid	7664-93-9	TWA	1 mg/m <sup>3</sup>
ACGIH (TLV)	Sulfuric Acid	7664-93-9	TWA	1 mg/m <sup>3</sup>
	Sulfuric Acid	7664-93-9	STEL	3 mg/m <sup>3</sup>
NIOSH (REL)	Sulfuric Acid	7664-93-9	TWA	1 mg/m <sup>3</sup>
	Sulfuric Acid	7664-93-9	STEL	15 mg/m <sup>3</sup>

<b>Engineering measures:</b>	Local exhaust ventilation should be provided at the site of chemical release. Emergency showers and eye wash stations should be readily accessible. Wash hands at the end of each work shift and before eating, smoking or using the toilet. Launder or discard contaminated clothing.
<b>Eye protection:</b>	Impact resistant eye protection with side shields, goggles or face shield
<b>Hand protection:</b>	Rubber gloves
<b>Skin and body protection:</b>	Slicker suit and rubber boots
<b>Respiratory protection:</b>	Filter or cartridge respirator (NIOSH Approved)
<b>Work/Hygiene practices:</b>	Do not eat, drink or smoke during use.

### Section 9: Physical and Chemical Properties

<b>Appearance</b>	
<b>Form:</b>	Liquid
<b>Color:</b>	Colorless
<b>Odor:</b>	Odorless
<b>Odor Threshold:</b>	Not available
<b>pH:</b>	> 1
<b>Change in condition</b>	
<b>Melting point:</b>	-4.4 °C (24 °F)
<b>Boiling point:</b>	109.5 °C (229.1 °F)
<b>Flash point:</b>	Not combustible
<b>Evaporation rate:</b>	Not available
<b>Flammability (solid, gaseous):</b>	Not flammable
<b>Ignition temperature:</b>	Not available
<b>Decomposition temperature:</b>	Not available
<b>Auto igniting:</b>	Not available
<b>Danger of explosion:</b>	Not available
<b>Explosion limits</b>	Not available
<b>Lower:</b>	
<b>Upper:</b>	
<b>Vapor pressure @ 20 °C (68 °F):</b>	Not available
<b>Specific Gravity @ 25 °C (77 °F):</b>	1.2-1.4
<b>Solubility in/Miscibility with Water :</b>	Miscible
<b>Partition coefficient (n-octanol/water)</b>	Not available
<b>Viscosity:</b>	Not available

## Section 10: Stability and Reactivity

<b>Reactivity:</b>	
<b>Chemical stability:</b>	Stable under normal conditions.
<b>Possibility of hazardous reactions:</b>	Sulfuric acid in contact with metal surfaces can generate flammable and explosive hydrogen gas. A fire risk can arise on contact with organic materials and chemicals such as nitrates, carbides, and chlorates.
<b>Conditions to avoid:</b>	Incompatible materials and excess heat. Do NOT add water to acid make sure to add acid to water slowly.
<b>Hazardous decomposition dioxide:</b>	Sulfur oxides may form when heated.
<b>Incompatible materials:</b>	Avoid contact with different organics, chlorates, carbides, fulminates, picrate's, metals. Material reacts violently (exothermically) with water.

## Section 11: Toxicological Information

### Information on Toxicological effects

**Acute Toxicity:**  
**LD/LC50**

<b>Oral LD50 (Rat) – Sulfuric Acid</b>	<b>2140 mg/kg</b>
<b>Inhalation LC50 (Rat) – Sulfuric Acid</b>	<b>510 mg/m<sup>3</sup>/2H</b>

### Irritant effects

<b>Skin:</b>	Causes severe irritation, burning, itching, and redness.
<b>Eye:</b>	Causes severe irritation and damage from direct exposure or vapor.
<b>Respiratory:</b>	Causes corrosion to the mucous membranes.
<b>Ingestion:</b>	Can cause burns to the mouth, throat, esophagus, and stomach.
<b>Specific target organ toxicity (single exposure):</b>	Eyes, skin, mouth, and digestive system.
<b>Specific target organ toxicity (repeated exposure):</b>	Eyes, skin, mouth, and digestive system. Workers that are chronically exposed to sulfuric acid mists may show various lesions of the skin, tracheobronchitis, stomatitis, conjunctivitis, or gastritis.
<b>Aspiration hazard:</b>	
<b>Symptoms/injuries after inhalation:</b>	Causes burns of the respiratory tract. Inhalation of mists may become fatal as a result of inflammation and edema of the lungs, larynx, and bronchi.
<b>Symptoms/injuries after ingestion:</b>	Causes severe gastrointestinal tract burns, nausea, vomiting, and diarrhea. May cause perforation of the gastrointestinal tract or peritonitis and death.
<b>Symptoms/injuries after eye contact:</b>	Causes severe burns, irritation, irreversible eye damage, and possible blindness.

### Carcinogenic Categories

**IARC (International Agency for Research on Cancer)**  
**NTP(national Toxicity Program)**

Occupational exposure to strong inorganic acid mists containing sulfuric acid causes cancer. Listed as a carcinogen.  
Occupational exposure to strong inorganic acid mists containing sulfuric acid causes cancer. Listed as a carcinogen.

### Section 12: Ecological Information

**Aquatic Toxicity:**  
**Persistence and degradability:**  
**Bioaccumulative potential:**  
**PBT and vPvB assessment**  
    **PBT:**  
    **vPvB:**  
**Mobility in soil:**  
**Other adverse effects:**

### Section 13: Disposal Considerations

**Waste treatment methods**

**Recommendation:**

Consult the local, state, and federal regulatory agencies for the acceptable disposal procedures and correct disposal locations.

**Uncleaned packaging's**

**Recommendation:**

### Section 14: Transport Information

#### US DOT

**UN Number:** UN2796  
**UN proper shipping name:** Sulfuric Acid  
**Transport Hazard class(es):** Class 8 – Corrosive substances  
**Packing group number:** II

#### TDG

**UN Number:** UN2796  
**UN proper shipping name:** Sulfuric Acid  
**Transport Hazard class(es):** Class 8 – Corrosive substances  
**Packing group number:** II

#### IATA/ICAO

**UN Number:** UN2796  
**UN proper shipping name:** Sulfuric Acid  
**Transport Hazard class(es):** Class 8 – Corrosive substances  
**Packing group number:** II



**IMDG**

<b>UN Number:</b>	UN2796
<b>UN proper shipping name:</b>	Sulfuric Acid
<b>Transport Hazard class(es):</b>	Class 8 – Corrosive substances
<b>Packing group number:</b>	II
<b>Environmental hazards:</b>	None
<b>Special precaution for user:</b>	Warning! Corrosive
<b>Transport in bulk (<i>according to Annex II of MARPOL 73/78 and IBC code</i>):</b>	Not available
<b>UN “Model Regulation”</b>	UN2796, Sulfuric Acid Solution, 8, II
<b>Reportable Quantity</b>	1000 lbs

**Section 15: Regulatory Information****Safety, health and environmental regulations/legislation specific for the substance or mixture****State/International Right to Know Regulations**

California: Not Listed

Connecticut: Survey

Florida: Toxic substances RTK

Illinois: Toxic, Chem

Louisiana: RTK, Spill RQ=1,000 lbs

Massachusetts: RTK; EHS, 1 PPM Threshold, Spill RQ = 50 lbs

New Jersey: ID# 1761, RTK, Special Hazard; Corrosive, Reactive; Tax

New York: Spill: Air RQ=1,000lbs, L/W RQ = 100 lbs

Pennsylvania: RTK, ENV.

Rhode Island: RTK, HAZ. Codes: Flammable, Toxic

Canada: List, 1%, No. 1485

**EPA SARA Title III Section 302 Extremely Hazardous Substance**

Yes

**EPA SARA Title III Section 311, 312 (40CFR370) Hazard Class**

Acute Health Hazard

**EPA SARA Title III Section 313 (40CFR372) Toxic Chemicals above “De Minimis” Level Are**

This material contains Sulfuric Acid which is subject to the reporting requirements of section 313 of SARA Title III.

**Toxic Substance Control Act**

This material is listed in the TSCA Inventory.

**Clean Air Act – Hazardous Air Pollutants (HAPs)**

None of the components are on this list

**Clean Air Act – Class 1 Ozone Depletors**

None of the components are on this list

**Clean Air Act – Class 1 Ozone Depletors**

None of the components are on this list

**Clean Water Act – Hazardous Substances**

CAS# 7664-93-9 is listed as a Hazardous Substance under the CWA

**Clean Water Act – Priority Pollutants**

None of the components are on this list

**Clean Water Act – Toxic Pollutants**

None of the components are on this list

**CERCLA/SUPERFUND, 40 CFR 117.302**

The following materials are listed as CERCLA Hazardous Substances: Sulfuric Acid (7664-93-9)  
RQ = 1000 lbs/2270 kg

**Section 16: Other Information**

**Indication of changes:**

**07/01/2014**

**Other Information:**

# Univar USA Inc Safety Data Sheet

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For Additional Information contact SDS Coordinator during business hours, Pacific time: (425) 889-3400

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