

# SAFETY DATA SHEET

## 1. IDENTIFICATION

**Product Name:** Sulfurous Acid

**Synonyms:** Sulfurous acid Sulfur dioxide solution

**CAS #:** 7782-99-2

**RTECS #** WT2775000

### Recommended use of the chemical and restrictions on use

**Recommended use:** Chemical intermediate.

**Uses advised against** No information available

### Supplier:

Lab Alle LLC  
12501 Pauls Valley road, Suite A  
Austin, Texas, 78737  
Telephone 512-668-9918 :  
Fax 512-886-4008 :

Emergency telephone

Emergency Phone # US & Canada: 1-800-535-5053 INFOTRACK  
International: 1-352-323-3500 INFOTRACK

## 2. HAZARDS IDENTIFICATION

### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1

### Label

#### Danger

#### Hazard statements

Causes severe skin burns and eye damage



**Hazards not otherwise classified (HNOC)**

Not Applicable

**Other hazards**

Not available

**Precautionary Statements - Prevention**

Do not breathe dust/fume/gas/mist/vapors/spray  
Wash face, hands and any exposed skin thoroughly after handling  
Wear protective gloves/protective clothing/eye protection/face protection

**Precautionary Statements - Response**

Immediately call a POISON CENTER or doctor/physician  
Specific treatment (see .? on this label)  
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

**Precautionary Statements - Storage**

Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Components	CAS-No.	Weight %	Trade Secret
Sulfurous acid (CAS no. 7782-99-2) [Consists of 94% water (CAS no. 7732-18-5) and 6% Sulfur dioxide(CAS no. 7446-09-5)]	39365-88-3	100	*

**4. FIRST AID MEASURES**

**First aid measures**

**General Advice:**

Poison information centers in each State capital city can provide additional assistance for scheduled poisons (13 1126). Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

**Skin Contact:** Wash off immediately with soap and plenty of water. Continue flushing with plenty of water for at least 15 minutes. Immediate medical attention is required. Call a physician or Poison Control Centre immediately.

**Eye Contact:** Flush eye with water for 15 minutes. Immediate medical attention is required. Call a physician immediately.

**Inhalation:** Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. **WARNING!** It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled or ingested material is toxic, infectious or corrosive. Do not use mouth-to-mouth resuscitation if victim ingested or 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. Immediate medical attention is required.

**Ingestion:** Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Immediate medical attention is required. Call a physician or Poison Control Center immediately.

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

**Symptoms** Severe skin and eye irritation or burns. Redness and burning sensation of the skin, pain, blisters. Redness, pain and burns of the eyes. Blurred vision. Burning sensation in the mouth and stomach. Can burn mouth, throat, and stomach. Burning pain in the mouth, throat, stomach. Ulceration/burning of the mouth, throat, stomach. Vomiting. Nausea. May cause hypermotility, diarrhea. Severe irritation of the upper respiratory tract. Coughing. Dyspnea (Shortness of breath and difficulty breathing). May cause build-up of fluid in the lungs (pulmonary edema). May cause metabolic acidosis.

**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician:** Treat symptomatically

**Protection of first-aiders**

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste

**5. FIRE-FIGHTING MEASURES**

**Extinguishing Media**

**Suitable Extinguishing Media:** The product is not flammable. If it is involved in a fire, extinguish the fire using an agent suitable for the type of surrounding fire.

**Unsuitable Extinguishing Media:** No information available.

**Specific hazards arising from the chemical**

**Hazardous Combustion Products:** If it is involved in a fire, it can cause evolution of Sulfur oxides (sulfur dioxide gas)

**Specific hazards:** Nonflammable

**Special Protective Actions for Firefighters**

**Specific Methods:** No information available.

**Special Protective Equipment 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:** Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid contact with skin, eyes and clothing. Use personal protective equipment.

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Prevent entry into waterways, sewers, basements or confined areas.

### Methods and material for containment and cleaning up

**Methods for containment** Stop leak if you can do it without risk.

**Methods for cleaning up** Neutralize with Sodium carbonate. Dilute with water. Absorb spill with inert material (e.g. vermiculite, dry sand or earth), then place in a suitable chemical waste container. Clean contaminated surface thoroughly.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Technical Measures/Precautions:**

Provide sufficient air exchange and/or exhaust in work rooms. Keep away from incompatible materials.

**Safe Handling Advice:**

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not breathe vapors or spray mist. Do not ingest. Do not smoke. Handle in accordance with good industrial hygiene and safety practice.

### Conditions for safe storage, including any incompatibilities

**Technical Measures/Storage Conditions:**

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store in a segregated and approved area. Store away from incompatible materials.

**Incompatible Materials:**

Oxidizing agents. Metals. Bases. Alkalis. Halogens. acetylides.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### National occupational exposure limits

**United States**

Components	OSHA	NIOSH	ACGIH	AIHA WHEEL
Sulfurous acid (CAS no. 7782-99-2) [Consists of 94% water (CAS no. 7732-18-5) and 6% Sulfur dioxide(CAS no. 7446-09-5)]	None	None	None	None

**Canada**

Components	Alberta	British Columbia	Ontario	Quebec
Sulfurous acid (CAS no. 7782-99-2) [Consists of 94% water (CAS no. 7732-18-5) and 6% Sulfur dioxide(CAS no. 7446-09-5)]	None	None	None	None

## Australia and Mexico

Components	Australia	Mexico
Sulfurous acid (CAS no. 7782-99-2) [Consists of 94% water (CAS no. 7732-18-5) and 6% Sulfur dioxide(CAS no. 7446-09-5)]	None	None

### Appropriate engineering controls

#### Engineering measures to reduce exposure:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors and mist below their respective threshold limit value.

### Individual protection measures, such as personal protective equipment

#### Personal Protective Equipment

- Eye protection:** Goggles and Face-shield
- Skin and body protection:** Chemical resistant protective suit. Gloves. boots.
- Respiratory protection:** Vapor respirator. Be sure to use an approved/certified respirator or equivalent
- Hygiene measures:** Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b> Liquid.	<b>Appearance:</b> No information available	<b>Color:</b> Colorless.
<b>Odor:</b> Pungent. Sulfurous. Sulfur dioxide odor.	<b>Taste</b> No information available	<b>Molecular/Formula weight:</b> No information available
<b>Formula:</b> No information available	<b>Flammability:</b> Non-flammable	<b>Flash point (°C):</b> No data available
<b>Flashpoint (°C/°F):</b> No information available.	<b>Flash Point Tested according to:</b> Not available	<b>Lower Explosion Limit (%):</b> No information available
<b>Upper Explosion Limit (%):</b> No information available	<b>Autoignition Temperature (°C/°F):</b> No information available	<b>pH:</b> < 2
<b>Melting point/range(°C/°F):</b> No information available	<b>Boiling point/range(°C/°F):</b> No information available	<b>Decomposition temperature(°C/°F):</b> No information available
<b>Bulk density:</b> No information available	<b>Specific gravity:</b> 1.03	<b>Vapor pressure @ 20°C (kPa):</b> 2.3 (Water)
<b>Density (g/cm3):</b> No information available	<b>Evaporation rate:</b> No information available	<b>Vapor density:</b> 1.3
<b>VOC content (g/L):</b> No information available	<b>Odor threshold (ppm):</b> No information available	<b>Partition coefficient (n-octanol/water):</b> No information available
<b>Viscosity:</b> No information available	<b>Miscibility:</b> No information available	<b>Solubility:</b> Easily soluble in cold water Easily soluble in hot water Soluble in Methanol Soluble in diethyl ether Soluble in Acetone

## 10. STABILITY AND REACTIVITY

### Reactivity

Reactive with oxidizing agents, metals, alkalis  
Reactive with halogens

### Chemical stability

**Stability:** Stable under recommended storage conditions.

**Possibility of Hazardous Reactions:** Hazardous polymerization does not occur

**Conditions to avoid:** Incompatible materials.

**Incompatible Materials:** Oxidizing agents. Metals. Bases. Alkalis. Halogens. acetylides.

**Hazardous decomposition products:** Sulfur dioxide gas.

### Other Information

**Corrosivity:** Extremely corrosive in presence of copper  
Slightly corrosive in presence of aluminum  
Slightly corrosive in presence of stainless steel (304)  
Slightly corrosive in presence of stainless steel (316)  
Non-corrosive in the presence of glass

**Special Remarks on Corrosivity:** No information available

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

**Principal Routes of Exposure:**  
Skin. Eyes. Inhalation. Ingestion.

### Acute Toxicity

#### Component Information

*Sulfurous acid (CAS no. 7782-99-2)*

*[Consists of 94% water (CAS no. 7732-18-5) and 6% Sulfur dioxide(CAS no. 7446-09-5)] -*

**LD50/oral/rat** = No information available  
**LD50/oral/mouse** = No information available  
**LD50/dermal/rat** = No information available  
**LD50/dermal/rabbit** = No information available  
**LC50/inhalation/rat** = No information available  
**LC50/inhalation/mouse** = No information available  
**Other LD50 or LC50 information** = No information available

#### Product Information

**LD50/oral/rat** =  
**VALUE- Acute Tox Oral** = No information available

**LD50/oral/mouse** =  
**Value - Acute Tox Oral** = No information available

**LD50/dermal/rabbit**  
**VALUE-Acute Tox Dermal** = No information available

**LD50/dermal/rat**  
**VALUE -Acute Tox Dermal** = No information available

**LC50/inhalation/rat**  
**VALUE-Vapor** = No information available  
**VALUE-Gas** = No information available  
**VALUE-Dust/Mist** = No information available

**LC50/Inhalation/mouse**  
**VALUE-Vapor** = No information available  
**VALUE - Gas** = No information available  
**VALUE - Dust/Mist** = No information available

### Symptoms

**Skin Contact:** Corrosive. Causes severe irritation and burns. Can cause redness and pain. It can be absorbed through the skin.

**Eye Contact:** Corrosive. Severe eye irritation. Redness and pain. Causes burns. May cause blurred vision.

**Inhalation** Mist and vapors cause severe irritation of respiratory tract and its mucous membrane. Can cause shortness of breath and difficulty breathing. Can cause systemic acidosis or pulmonary edema at moderate concentrations.

**Ingestion** Corrosive to the mouth, throat and esophagus with immediate pain and burning. Causes severe irritation burns of digestive tract. Causes nausea, vomiting, hypermotility, and diarrhea. Uncontrolled vomiting may occur.

**Aspiration hazard** No information available

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

**Chronic Toxicity** Repeated exposure can irritate the lungs, may cause bronchitis to develop with cough, phlegm, and or shortness of breath. It may cause damage to the tissue of the mucous membrane, upper respiratory tract, eyes and skin.

**Sensitization:** No information available

**Mutagenic Effects:** For Sulfur dioxide:  
 May affect genetic material  
 Mutations in microorganisms  
 Experiments with bacteria and/or yeast have shown mutagenic effects  
 Experiments with human lymphocytes have shown mutagenic effects

**Carcinogenic effects:** Not considered carcinogenic

Components	ACGIH - Carcinogens	IARC	NTP	OSHA HCS - Carcinogens	Australia - Prohibited Carcinogenic Substances	Australia - Notifiable Carcinogenic Substances
Sulfurous acid (CAS no. 7782-99-2) [Consists of 94% water (CAS no. 7732-18-5) and 6% Sulfur dioxide(CAS no. 7446-09-5)]	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

**Reproductive toxicity** No data is available

**Reproductive Effects:** For Sulfur dioxide: Inhalation of Sulfur dioxide gas may cause adverse reproductive effects (maternal and paternal) based on animal data.

**Developmental Effects:** For Sulfur dioxide: Inhalation of Sulfur dioxide gas may cause adverse effects on developing fetus. A significant risk to developing fetus is associated with maternal exposure to Sulfur dioxide gas by inhalation.

**Teratogenic Effects:** May cause birth defects (teratogenic effects)

**Specific Target Organ Toxicity**

**STOT - single exposure** No information available

**STOT - repeated exposure** No information available

**Target Organs:** Lungs.



## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

**Ecotoxicity effects:** No data available.

**Persistence and degradability:** No information available

**Bioaccumulative potential:** No information available

**Mobility:** No information available

## 13. DISPOSAL CONSIDERATIONS

### Disposal Methods

**Waste from residues / unused products:**

Waste must be disposed of in accordance with Federal, State and Local regulation.

**Contaminated packaging:**

Empty containers should be taken for local recycling, recovery or waste disposal

Components	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Sulfurous acid (CAS no. 7782-99-2) [Consists of 94% water (CAS no. 7732-18-5) and 6% Sulfur dioxide(CAS no. 7446-09-5)]	None	None	None	None

## 14. TRANSPORT INFORMATION

**Packing Group:** II  
**Subsidiary Risk:** No information available  
**Classification Code:** No information available  
**Description:** No information available  
**CEFIC Tremcard No:** No information available

### IMO / IMDG

**UN-No:** UN1833  
**Proper Shipping Name:** Sulphurous acid (Solution)  
**Hazard Class:** 8  
**Subsidiary Risk:** No information available  
**Packing Group:** II  
**Description:** No information available  
**IMDG Page:** No information available  
**Marine Pollutant:** No information available  
**EMS:** F-A  
**MFAG:** No information available  
**Maximum Quantity:** No information available

### RID

**UN-No:** UN1833  
**Proper Shipping Name:** Sulphurous acid (Solution)  
**Hazard Class:** 8  
**Subsidiary Risk:** No information available  
**Packing Group:** II  
**Classification Code:** No information available  
**Description:** No information available

### ICAO

**UN-No:** UN1833  
**Proper Shipping Name:** Sulphurous acid (Solution)  
**Hazard Class:** 8  
**Subsidiary Risk:** No information available  
**Packing Group:** II  
**Description:** No information available

### IATA

**UN-No:** UN1833  
**Proper Shipping Name:** Sulphurous acid (Solution)  
**Hazard Class:** 8  
**Subsidiary Risk:** No information available  
**Packing Group:** II  
**ERG Code:** 8L  
**Description:** No information available

## 15. REGULATORY INFORMATION

### International Inventories

Components	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
<i>Sulfurous acid (CAS no. 7782-99-2) [Consists of 94% water (CAS no. 7732-18-5) and 6% Sulfur dioxide(CAS no. 7446-09-5)]</i>	Present	Present KE-32671	Present	Present (1)-309	Present	Present	Present 231-973-1

### U.S. Regulations

Sulfurous acid (CAS no. 7782-99-2)  
 [Consists of 94% water (CAS no. 7732-18-5) and 6% Sulfur dioxide(CAS no. 7446-09-5)]

New Jersey RTK Hazardous Substance List: 1764

FDA - 21 CFR - Total Food Additives 73.85

**California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.**

**Chemicals Known to the State of California to Cause Cancer:**

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

**Chemicals Known to the State of California to Cause Reproductive Toxicity:**

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
Sulfurous acid (CAS no. 7782-99-2) [Consists of 94% water (CAS no. 7732-18-5) and 6% Sulfur dioxide(CAS no. 7446-09-5)]	Not Listed	Not Listed	Not Listed	Not Listed

**CERCLA/SARA**

Components	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting <i>de minimis</i>
Sulfurous acid (CAS no. 7782-99-2) [Consists of 94% water (CAS no. 7732-18-5) and 6% Sulfur dioxide(CAS no. 7446-09-5)]	None	None	None	None	None

**U.S. TSCA**

Components	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Sulfurous acid (CAS no. 7782-99-2) [Consists of 94% water (CAS no. 7732-18-5) and 6% Sulfur dioxide(CAS no. 7446-09-5)]	Not Applicable	Not Applicable

**Canada**

**WHMIS hazard class:**

E Corrosive material

**Sulfurous acid (CAS no. 7782-99-2)**

[Consists of 94% water (CAS no. 7732-18-5) and 6% Sulfur dioxide(CAS no. 7446-09-5)]

E

**Canada Controlled Products Regulation:**

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Components	WHMIS Ingredient Disclosure List -
Sulfurous acid (CAS no. 7782-99-2) [Consists of 94% water (CAS no. 7732-18-5) and 6% Sulfur dioxide(CAS no. 7446-09-5)]	1 %

**Inventory**

Components	Canada (DSL)	Canada (NDSL)
Sulfurous acid (CAS no. 7782-99-2) [Consists of 94% water (CAS no. 7732-18-5) and 6% Sulfur dioxide(CAS no. 7446-09-5)]	Present	Not Listed

Components	CEPA Schedule I - Toxic Substances	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Sulfurous acid (CAS no. 7782-99-2) [Consists of 94% water (CAS no. 7732-18-5) and 6% Sulfur dioxide(CAS no. 7446-09-5)]	Not listed	Not listed

## EU Classification

### R-phrase(s)

R34 - Causes burns.

### S -phrase(s)

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

Components	Classification	Concentration Limits:	Safety Phrases
Sulfurous acid (CAS no. 7782-99-2) [Consists of 94% water (CAS no. 7732-18-5) and 6% Sulfur dioxide(CAS no. 7446-09-5)]		No information	

The product is classified in accordance with Annex VI to Directive 67/548/EEC

### Indication of danger:

C - Corrosive.



## 16. OTHER INFORMATION

**Date of Issue:** 02/19/2024

**Revision:** None

## 17. Disclaimer

The information provided in this 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.