

# SAFETY DATA SHEET

Creation Date 03-Jun-2014

Revision Date 26-Mar-2024

**Revision Number** 4

# 1. Identification

## **Product Name**

#### Sulphurous acid

7782-99-2

Cat No. : 33275

CAS No Synonyms

Recommended Use Uses advised against

Sulfur dioxide, solution Laboratory chemicals. Food, drug, pesticide or biocidal product use.

#### Details of the supplier of the safety data sheet

#### <u>Company</u>

Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757

#### **Emergency Telephone Number**

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No. **US**:001-800-424-9300 / **Europe**:001-703-527-3887

# 2. Hazard(s) identification

#### **Classification**

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

Acute Inhalation Toxicity - Vapors Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation Specific target organ toxicity (single exposure) Target Organs - Respiratory system.

Category 4 Category 1 B Category 1 Category 3

#### Label Elements

#### Signal Word Danger

#### Hazard Statements Causes severe skin burns and eye damage

May cause respiratory irritation Harmful if inhaled



# Precautionary Statements

## Prevention

Use only outdoors or in a well-ventilated area

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

#### Response

Immediately call a POISON CENTER or doctor/physician

#### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

#### Skin

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

#### Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Ingestion

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

### Storage

#### Store locked up

Store in a well-ventilated place. Keep container tightly closed

#### Disposal

Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

None identified

# 3. Composition/Information on Ingredients

Component	CAS No	Weight %
Sulfurous acid	7782-99-2	100

4. First-aid measures		
General Advice	Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.	
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.	
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Call a physician immediately.	
Inhalation	If not breathing, give artificial respiration. Remove from exposure, lie down. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician immediately.	

Ingestion	Do NOT induce vomiting. Clean mouth with water. Never give anything by mouth to an unconscious person. Call a physician immediately.
Most important symptoms and effects	Causes burns by all exposure routes. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation
Notes to Physician	Treat symptomatically
	5. Fire-fighting measures

Suitable Extinguishing MediaSubstance is nonflammable; use agent most appropriate to extinguish surrounding fire. CO<br/>2, dry chemical, dry sand, alcohol-resistant foam.Unsuitable Extinguishing MediaNo information available

jjjj	
Flash Point Method -	Not applicable No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact Sensitivity to Static Discharge	No information available No information available

#### **Specific Hazards Arising from the Chemical**

Thermal decomposition can lead to release of irritating gases and vapors. The product causes burns of eyes, skin and mucous membranes.

#### **Hazardous Combustion Products**

Sulfur oxides.

#### **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. Thermal decomposition can lead to release of irritating gases and vapors.

Health 3	<b>Flammability</b> 0	Instability 1	Physical hazards N/A
	6. Accidental rel	lease measures	
Personal Precautions	Use personal protective equipment as required. Ensure adequate ventilation. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Should not be released into the environment. See Section 12 for additional Ecological		
	Information.		

Methods for Containment and Clean Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Up

	7. Handling and storage
Handling	Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Use only under a chemical fume hood. Do not breathe mist/vapors/spray. Do not ingest. If swallowed then seek immediate medical assistance.
Storage.	Keep containers tightly closed in a dry, cool and well-ventilated place. Corrosives area. Incompatible Materials. Reducing Agent. Bases. Halogens. Oxidizing agent.

8. Exposure controls / personal protection			
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.		
Engineering Measures	None under normal use conditions. Ensure that eyewash stations and safety showers are close to the workstation location.		
Personal Protective Equipment			
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.		
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.		
<b>Respiratory Protection</b>	No protective equipment is needed under normal use conditions.		
Recommended Filter type:	Particle filter.		
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.		

# 9. Physical and chemical properties

Physical State	Liquid
Appearance	Clear
Odor	Rotten-egg like
Odor Threshold	No information available
рН	2.0 Acidic
Melting Point/Range	No data available
Boiling Point/Range	No information available
Flash Point	Not applicable
Evaporation Rate	No information available
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	2.8
Specific Gravity	1.03
Solubility	Soluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	No information available
Molecular Formula	H2SO3
Molecular Weight	82.0722

# 10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions. Air sensitive.
Conditions to Avoid	Incompatible products. Excess heat. Exposure to air over prolonged period.
Incompatible Materials	Reducing Agent, Bases, Halogens, Oxidizing agent

Hazardous Decomposition Products Sulfur oxides						
Hazardous Polymerization		Hazardous polymerization does not occur.				
Hazardous Reaction	ns	None under normal processing.				
11. Toxicological information						
Acute Toxicity						
Product Information Component Informa Toxicologically Syn Products Delayed and immed	ation nergistic	No information available s well as chronic effects from short and long-term exposure				
Irritation		Causes burns by a	all exposure routes			
Sensitization		No information ava	ailable			
Carcinogenicity		The table below indicates whether each agency has listed any ingredient as a carcinogen.			as a carcinogen.	
Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Sulfurous acid Mutagenic Effects	7782-99-2	Not listed No information ava	Not listed	Not listed	Not listed	Not listed
Reproductive Effec		No information available.				
-						
Teratogenicity		No information available.				
STOT - single expo STOT - repeated ex		Respiratory system None known				
Aspiration hazard		No information available				
Symptoms / effects delayed	ptoms / effects,both acute and yedProduct is a corrosive material. Use of gastric lavage or emesis Possible perforation of stomach or esophagus should be investig severe swelling, severe damage to the delicate tissue and dange		e investigated: Ing	estion causes		
Endocrine Disrupto	Endocrine Disruptor Information No information available					
Other Adverse Effe	cts	The toxicological properties have not been fully investigated.				
		12. Ecolo	ogical infor	mation		
Ecotoxicity						
Persistence and De	gradability	Soluble in water Po	ersistence is unlike	ely based on inforr	nation available.	
Bioaccumulation/ A	ccumulation	No information available.				
Mobility		Will likely be mobil	e in the environme	ent due to its water	solubility.	
		13. Dispo	sal conside	erations		
Waste Disposal Me	thods	Chemical waste ge hazardous waste. national hazardous	enerators must det Chemical waste g	ermine whether a enerators must als	so consult local, reg	gional, and

14. Transport information		
DOT		
UN-No	UN1833	
Proper Shipping Name	SULFUROUS ACID	
Hazard Class	8	
Packing Group		
TDG		
UN-No	UN1833	
Proper Shipping Name	SULFUROUS ACID	
Hazard Class	8	
Packing Group		
IATA		
UN-No	UN1833	
Proper Shipping Name	SULPHUROUS ACID	
Hazard Class	8	
Packing Group		
IMDG/IMO		
UN-No	UN1833	
Proper Shipping Name	SULPHUROUS ACID	
Hazard Class	8	
Packing Group		
15. Regulatory information		

## United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Sulfurous acid	7782-99-2	Х	ACTIVE	-

#### Legend:

**TSCA** US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed

# TSCA - Per 40 CFR 751, Regulation of Certain Chemical Not applicable Substances & Mixtures, Under TSCA Section 6(h) (PBT)

TSCA 12(b) - Notices of Export

Not applicable

#### International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Sulfurous acid	7782-99-2	Х	-	231-973-1	Х	Х	Х	Х	Х	KE-32671

**KECL** - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

#### U.S. Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
<b>OSHA</b> - Occupational Safety and Health Administration	Not applicable

#### CERCLA

This material, as supplied, does not contain any 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.

California Proposition 65

This product does not contain any Proposition 65 chemicals.

# U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Sulfurous acid	-	Х	-	-	-

#### U.S. Department of Transportation

Reportable Quantity (RQ):	Ν
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.

#### Other International Regulations

Mexico - Grade

No information available

Authorisation/Restrictions according to EU REACH

Not applicable

	Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	<b>J</b>	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Ī	Sulfurous acid	7782-99-2	-	-	-

#### Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Sulfurous acid	7782-99-2	Listed	Not applicable	Not applicable	Not applicable

#### Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

## Other International Regulations

Component	CAS No	Seveso III Directive	Seveso III Directive	Rotterdam	Basel Convention

		(2012/18/EC) - Qualifying Quantities	(2012/18/EC) - Qualifying Quantities	Convention (PIC)	(Hazardous Waste)
		for Major Accident	for Safety Report		
		Notification	Requirements		
Sulfurous acid	7782-99-2	Not applicable	Not applicable	Not applicable	Annex I - Y34

## 16. Other information

Prepared By

Health, Safety and Environmental Department Email: chem.techinfo@thermofisher.com www.thermofisher.com

Creation Date	03-Jun-2014
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Revision Summary	New emergency telephone response service provider.

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

# End of SDS