

# SAFETY DATA SHEET

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifiers

Product name Mercuric Sulfate

CAS number 7783-35-9

Synonyms Mercury (II) Sulfate

## 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses Laboratory chemicals.

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

Company	Lab Alley, LLC 12501 Pauls Valley Road Austin, Texas 78737 U.S.A.
Telephone	512-668-9918
Fax	512-886-4008

## **1.4 Emergency telephone**

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

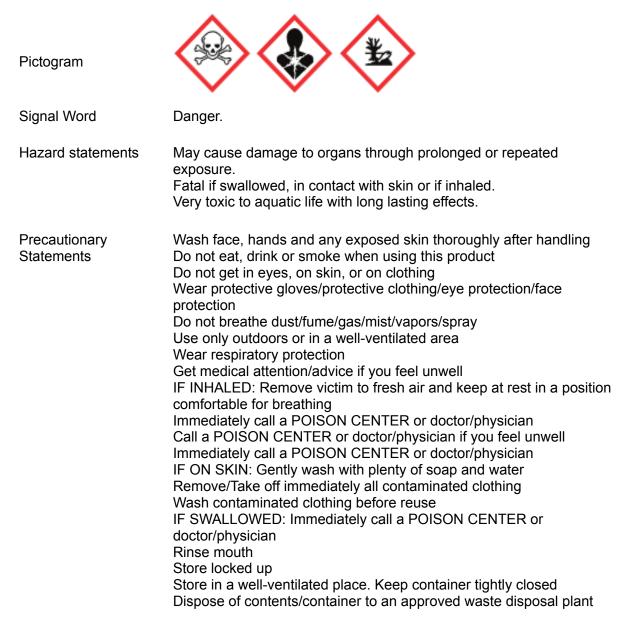
## **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

## GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute oral toxicity (Category 2) Acute dermal toxicity (Category 1) Acute Inhalation Toxicity - Dusts and Mists (Category 2) Specific target organ toxicity - repeated exposure (Category 2) Target Organs: Kidney, Reproductive Sytem Short-term (acute) aquatic hazard (Category 1) Long-term (chronic) aquatic hazard (Category 1)

## 2.2 GHS Label elements, including precautionary statements



# 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS None.

## **SECTION 3: Composition/information on ingredients**

## 3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration	
Mercuric sulfate	Mercury (II) Sulfate	7783-35-9	> 98%	

## 4.1 Description of first-aid measures

#### General advice

lf inhaled	Remove to fresh air. If breathing is difficult, give oxygen. 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. Immediate medical attention is required.
In case of skin contact	Immediate medical attention is required. Wash off immediately with plenty of water for at least 15 minutes.
In case of eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists: Get medical advice/attention.
If swallowed	Do NOT induce vomiting. Call a physician or poison control center immediately.

## 4.2 Most important symptoms and effects, both acute and delayed

Symptoms of overexposure are dizziness, headache, tiredness, nausea, unconsciousness, cessation of breathing: May cause adverse kidney effects: Symptoms may be delayed.

**4.3 Indication of any immediate medical attention and special treatment needed** Note to physician: Treat symptomatically.

## **SECTION 5: Firefighting measures**

## 5.1 Extinguishing media

Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media** No information available.

## 5.2 Specific hazards arising from the substance or mixture

Very toxic. Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition. Do not allow run-off from fire-fighting to enter drains or water courses.

#### 5.3 Special 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.

## 5.4 Further information

Flash Point	No inform	No information available.			
Autoignition Temperatu	re No inform	No information available.			
Explosion limits					
Upper	No inforn	nation avail	able.		
Lower	No inforn	No information available.			
Sensitivity to	ensitivity to Mechanical Impact No information available.				
Sensitivity to	Sensitivity to Static Discharge No information available.				
NFPA					
Health Flammability Instability Physical hazards					
4	0	1	N/A		

## **SECTION 6: Accidental release measures**

## 6.1 Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas. Avoid dust formation. Ensure adequate ventilation. Use personal protective equipment as required. Keep people away from and upwind of spill/leak.

#### 6.2 Environmental precautions

Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained. See Section 12 for additional Ecological Information. Avoid release to the environment. Collect spillage.

## 6.3 Methods and materials for containment and cleaning up

Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

#### 6.4 Reference to other sections

See Section 2 for full list of hazard and precaution statements.

## **SECTION 7: Handling and storage**

## 7.1 Precautions for safe handling

#### Precautions on safe handling

Use only under a chemical fume hood. Wear personal protective equipment/face protection. Avoid dust formation. Do not get in eyes, on skin, or on clothing. Do not ingest. If swallowed then seek immediate medical assistance. Do not breathe (dust, vapor, mist, gas).

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Storage conditions

Keep containers tightly closed in a dry, cool and well-ventilated place.

#### Incompatibilities

Strong oxidizing agents, Water

### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Occupational exposure limits

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

Component	Туре	Value
Marcuric Sulfate	No information available.	No information available.

#### **US. ACGIH Threshold Limit Values**

Component	Туре	Value
Marcuric Sulfate	TWA	0.025 mg/m3

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

Component	Туре	Value
Marcuric Sulfate	TWA	0.05 mg/m3
	IDHL	10 mg/m3

#### **Biological occupational exposure limits**

No information available.

#### 8.2 Exposure controls

#### Appropriate engineering controls

Use only under a chemical fume hood. Ensure adequate ventilation, especially in confined areas. 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 protection

Wear appropriate protective gloves.

#### **Body Protection**

Wear appropriate clothing to prevent skin exposure.

#### **Respiratory protection**

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

#### Control of environmental exposure

Do not let product enter drains.

## **SECTION 9: Physical and chemical properties**

## 9.1 Information on basic physical and chemical properties

Physical State	Solid
Appearance	White
Odor	Odorless
Odor Threshold	No information available.
рН	No information available.
Melting Point/Range	No information available.
Boiling Point/Range	No information available.
Evaporation Rate	Not applicable.
Flammability (solid)	No information available.
Flammability or explosive limit	
Upper	No information available.
Lower	No information available.
Vapor Pressure	Negligible.
Vapor Density	Not applicable.
Density	6.470 g/cm3
Solubility	Reacts with water.
Partition coefficient; n-octanol/water	No information available.
Autoignition Temp	No information available.
Decomposition Temp	No information available.
Viscosity	Not applicable.
Molecular Formula	HgO4S
Molecular Weight	296.64
VOC Content(%)	No information available.
Oxidizing properties	None.

## 9.2 Other safety information

No information available.

## **SECTION 10: Stability and reactivity**

## 10.1 Reactivity

None known, based on information available.

### 10.2 Chemical stability

Stable under normal conditions. Decomposes in contact with water.

## **10.3 Possibility of hazardous reactions**

None under normal processing.

## **10.4 Conditions to avoid** Incompatible products. Excess heat. Exposure to moist air or water.

## 10.5 Incompatible materials

Strong oxidizing agents, Water

**10.6 Hazardous decomposition products** Sulfur oxides.

### **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

#### **Product Information, Component Information**

#### Acute toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Mercuric Sulfate	57 mg/kg (rat)	625 mg/kg (rat)	Not listed.

#### Skin corrosion/irritation

No information available.

#### Serious eye damage/eye irritation

No information available.

#### Respiratory or skin sensitization

No information available.

#### Germ cell mutagenicity

No information available.

#### Carcinogenicity

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Mercuric Sulfate	7783-35-9	Not listed				

#### Specific target organ toxicity - single exposure

None known.

### Specific target organ toxicity - repeated exposure Kidney, Reproductive System

#### **Reproductive toxicity**

No information available.

#### **Chronic effects**

Symptoms of overexposure are dizziness, headache, tiredness, nausea, unconsciousness, cessation of breathing: May cause adverse kidney effects: Symptoms may be delayed.

#### 11.2 Additional Information

The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

## **SECTION 12: Ecological information**

## 12.1 Toxicity

Product		Species	Test Results
Mercuric Sulfate	LC50	Pimephales promelas	0.19 mg/L 96 h
	EC50	Ankistrodesmus falcatus	0.07 mg/L 14 day

### 12.2 Persistence and degradability

Soluble in water. Persistence is unlikely based on information available.

#### 12.3 Bio accumulative potential

No information available.

#### 12.4 Mobility in soil

Will likely be mobile in the environment due to its water solubility.

## 12.5 Results of PBT and vPvB assessment

No information available.

### 12.6 Endocrine disrupting properties

No information available.

## 12.7 Other adverse effects

No information available.

#### **SECTION 13: Disposal considerations**

#### **13.1 Waste Disposal Methods**

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

## **SECTION 14: Transport information**

DOT (US)	
UN-no	UN1645
Proper Shipping Name	Mercury Sulfates
Hazard Class	6.1
Packing Group	II
IMDG	
UN-no	UN1645
Proper Shipping Name	Mercury Sulfates
Hazard Class	6.1
Packing Group	II
ΙΑΤΑ	
UN-no	UN1645
Proper Shipping Name	Mercury Sulfates
Hazard Class	6.1

#### **SECTION 15: Regulatory information**

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) Not listed.

## CERCLA Hazardous Substance List (40 CFR 302.4)

Listed. RQ: 10 lb

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#### SARA 304 Emergency release notification

Not regulated

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Listed.

SARA 313 (TRI reporting)

Regulated. Weight: > 99%; Threshold Values: > 0%

#### Other federal regulations

Packing Group

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Regulated.

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

#### Safe Drinking Water Act

Not regulated

# FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Not listed

#### **US state regulations**

US. Massachusetts RTK - Substance List

Listed.

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

# US. Pennsylvania Worker and Community Right-to-Know Law Listed.

California Proposition 65

Listed.

## **SECTION 16: Other information**

Issue date: 09/09/2024

## **SECTION 17: Disclaimer**

The information provided on 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.