

14078 Meridian Parkway, Riverside, CA. 92518

# SAFETY DATA SHEET

Version: v1

Revision Date: 2025-09-20

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

#### 1.1 Product identifiers

Product name : Mercuric sulfate
Product Number : M105175
Brand : aladdin
CAS-No. : 7783-35-9

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

Identified uses : Laboratory chemicals, Manufacture of substances.

1.3 Company

Company : ALADDIN SCIENTIFIC CORPORATION

Address : 14078 Meridian Parkway,

Riverside, CA. 92518

Telephone : +1 (833) 552-7181 Fax : no data available

# 1.4 Emergency telephone number

CHEMTREC®, Inside the USA : 1-800-424-9300

CHEMTREC®, Outside the USA :

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

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

Acute toxicity, Oral (Category 3), H301

Acute toxicity, Inhalation (Category 2), H330

Acute toxicity, Dermal (Category 3), H311

Skin sensitization (Category 1), H317

Specific target organ toxicity - single exposure (Category 1), H370

Specific target organ toxicity - repeated exposure (Category 1), H372

Short-term (acute) aquatic hazard (Category 1), H400

Long-term (chronic) aquatic hazard (Category 1), H410



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### 2.2 GHS Label elements, including precautionary statements

**Pictogram** 







Signal word Danger

Hazard statement(s)

H317 May cause an allergic skin reaction

H330 Fatal if inhaled

H370 Causes damage to organs

H372 Causes damage to organs through prolonged or repeated exposure

H410 Very toxic to aquatic life with long lasting effects

H301+H311 Toxic if swallowed or in contact with skin

Precautionary statement(s)

P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P264 Wash hands [and ...] thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P284 [In case of inadequate ventilation] Wear respiratory protection.

P391 Collect spillage.

P308+P311 IF exposed or concerned: Call a POISON CENTER/doctor/...
P333+P313 IF SKIN irritation or rash occurs: Get medical advice/attention.

P405 Store locked up.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P501 Dispose of contents/container to an approved waste disposal plant.

P302+P352+P312 IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/ doctor if you feel

unwell.

P301+P310+P330 IF SWALLOWED: Rinse mouth.Immediately call a POISON CENTER/doctor/.
P304+P340+P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Immediately call a POISON CENTER/ doctor.

### 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

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

### 3.1 Substances

Synonyms : Mercury(II) sulfate; Mercury sulfate; Mercury persulfate; Mercury bisulfate

Formula : HgO4S Molecular weight : 296.65 CAS No. : 7783-35-9



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EC-NO. : 231-992-5

Component	Classification	Concentration
Mercuric sulfate		
	no data available	AR, ≥99%

#### **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

#### In case of eye contact

Flush eyes with water as a precaution.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

no data available

### 4.3 Indication of any immediate medical attention and special treatment needed

no data available

### **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

## Unsuitable extinguishing media

no data available

### 5.2 Special hazards arising from the substance or mixture

Sulfur oxides Mercury/mercury oxides. Not combustible. Ambient fire may liberate hazardous vapours.

### 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

### 5.4 Further information

no data available



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

# 6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

# 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

# 6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

For disposal see section 13.

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

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed.

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

Keep container tightly closed in a dry and well-ventilated place. Store under inert gas. Light sensitive. Moisture sensitive. Air sensitive. Storage class (TRGS 510): Non-combustible, acute toxic Cat. 1 and 2 / very toxic hazardous materials

### 7.3 Specific end use(s)

no data available

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

# 8.1 Control parameters

### 8.2 Exposure controls

#### Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

### Personal protective equipment

#### Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).



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#### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### **Body Protection**

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Control of environmental exposure

no data available

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

# 9.1 Information on basic physical and chemical properties

a) Appearance form: crystalline powder color: white

b) Odour no data available c) Odour Threshold no data available d) pH no data available no data available e) Melting point/freezing point f) Initial boiling point and boiling range no data available g) Flash point no data available no data available h) Evaporation rate no data available i) Flammability (solid, gas)

j) Upper/lower flammability or explosive

limits no data available k) Vapour pressure no data available l) Vapour density no data available

m) Relative density 6.47

n) Water solubility no data available
o) Partition coefficient: n-octanol/water no data available
p) Auto-ignition temperature no data available
q) Decomposition temperature no data available
r) Viscosity no data available
s) Explosive properties N no data available
t) Oxidizing properties N no data available

### 9.2 Other safety information

no data available



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

### 10.1 Reactivity

Stable under recommended storage conditions.

### 10.2 Chemical stability

no data available

# 10.3 Possibility of hazardous reactions

Violent reactions possible with: Hydrogen halides

#### 10.4 Conditions to avoid

no data available

# 10.5 Incompatible materials

no data available

### 10.6 Hazardous decomposition products

no data available

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

### 11.1 Information on toxicological effects

### **Acute toxicity**

LD50 Oral - Mouse - 25 mg/kg Remarks: (RTECS)

Acute toxicity estimate Inhalation - 0.051 mg/l - dust/mist (Expert judgment)

Acute toxicity estimate Dermal - 5.1 mg/kg (Expert judgment)

#### Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitisation

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

no data available

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure



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May cause damage to organs through prolonged or repeated exposure. - Kidney

**Aspiration hazard** 

no data available

**Additional Information** 

# **SECTION 12: Ecological information**

# 12.1 Toxicity

Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 0.19 mg/l - 96 h Remarks: (Hommel)

Toxicity to algae EC50 - Ankistrodesmus falcatus - 0.07 mg/l - 14 Days Remarks: (ECHA) (mercury(II) sulphate)

### 12.2 Persistence and degradability

no data available

### 12.3 Bioaccumulative potential

no data available

### 12.4 Mobility in soil

no data available

### 12.5 Results of PBT and vPvB assessment

no data available

#### 12.6 Other adverse effects

no data available

# **SECTION 13:**

### 13.1 Disposal considerations

#### **Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

#### Contaminated packaging

Dispose of as unused product.

# **SECTION 14: Transport information**

DOT (US)

UN number: 1645 Packing group: II Class: 6.1



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Proper shipping name: Mercury sulfates Reportable Quantity(RQ): no data

Poison Inhalation Hazard: no data

available available

Environmental Hazards: yes

**IMDG** 

UN number: 1645 Packing group: II EMS-No: no data available

Proper shipping name: Mercury sulfates

**IATA** 

UN number: 1645 Packing group: II Class: 6.1

Proper shipping name: Mercury sulfates

# **SECTION 15: Regulatory information**

The following laws, regulations, and standards provide corresponding provisions for the safe use, storage,

transportation, loading and unloading, classification, and labeling of chemicals:

Catalogue of Hazardous Chemicals (2015 Edition): Listed

Classification and Variety Catalogue of Precursor Chemicals (2015 Edition): Not included

List of Hazardous Chemicals for Explosive Production (2017 Edition): Not included

List of Existing Chemical Substances in China: Listed

National Standards for Classification and Labeling of Chemicals (GB 30000.2-2013~30000.29-2013)

If applicable, the chemical meets the requirements of the Regulations on the Safety Management of Hazardous Chemicals.

#### SECTION 16: Other information

Prepared By Regulatory Affairs

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