

CHAITANYA CHS, 2<sup>nd</sup> FLOOR, OFFICE # 206, SIDDHARTH NAGAR, S.V.ROAD, GOREGAON (W), MUMBAI 400062, MH, INDIA.  
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## MATERIAL SAFETY DATA SHEET (MSDS)

### MERCUROUS SULPHATE LR

#### 1. Chemical Product and Company Identification

Product Name: Mercurous sulfate  
CAS# 7783-36-0

Product Coad: M0135700100

Synonym Not available.  
Chemical Formula Hg<sub>2</sub>SO<sub>4</sub>

#### 2. Composition and Information on Ingredients

##### Exposure Limits

TWA (mg/m<sup>3</sup>) STEL (mg/m<sup>3</sup>) CEIL (mg/m<sup>3</sup>)

Name CAS # % by Weight

1) Mercurous sulfate 7783-36-0 0.05 0.15 100

Toxicological Data Mercurous sulfate:

on Ingredients ORAL (LD50): Acute: 205 mg/kg [Rat]. 152 mg/kg [Mouse Rabbit Mouse Mouse].

DERMAL (LD50): Acute: 1175 mg/kg [Rat].

#### 3. Hazards Identification

Potential Acute Health Effects Very hazardous in case of ingestion. Hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation. Slightly hazardous in case of skin contact (permeator). Severe over-exposure can result in death. Potential Chronic Health CARCINOGENIC EFFECTS: Classified A5 (Not suspected for human.) by ACGIH.

Effects MUTAGENIC EFFECTS: Not available.

TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: Not available.

The substance is toxic to blood, kidneys, lungs, the nervous system, mucous membranes.

Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure to an highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

Mercurous sulfate

#### 4. First Aid Measures

Eye Contact Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.

Skin Contact After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cover the irritated skin with an emollient. If irritation persists, seek medical attention.

Serious Skin Contact Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.

Inhalation Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

Serious Inhalation Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.

Ingestion Do not induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen

tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention. Serious Ingestion Not available.

#### 5. Fire and Explosion Data

Flammability of the Product Non-flammable.

Auto-Ignition Temperature Not applicable. Not applicable.

Flash Points Not applicable.

Flammable Limits

Products of Combustion Not available.

Fire Hazards in Presence of Not applicable.

Various Substances

Explosion Hazards in Presence Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

of Various Substances

Fire Fighting Media Not applicable.

and Instructions

Not available.

Special Remarks on

Fire Hazards

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Special Remarks on Explosion Not available.

Hazards

#### **6. Accidental Release Measures**

Small Spill Use appropriate tools to put the spilled solid in a convenient waste disposal container.  
 Large Spill Use a shovel to put the material into a convenient waste disposal container. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.  
 Mercurous sulfate

#### **7. Handling and Storage**

Precautions Keep locked up Do not ingest. Do not breathe dust. Wear suitable protective clothing In case of insufficient ventilation, wear suitable respiratory equipment If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes  
 Storage Keep container tightly closed. Keep in a cool, well-ventilated place. Highly toxic or infectious materials should be stored in a separate locked safety storage cabinet or room.

#### **8. Exposure Controls/Personal Protection**

Engineering Controls Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.  
 Personal Protection Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.  
 Personal Protection in Case of Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used  
 a Large Spill to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.  
 Exposure Limits TWA: 0.05 CEIL: 0.15 (mg/m3)  
 Consult local authorities for acceptable exposure limits.

#### **9. Physical and Chemical Properties**

Physical state and appearance Solid. Odor Not available.  
 Not available.  
 Taste  
 Molecular Weight 497.24 g/mole  
 Not available.  
 Color  
 Not available.  
 pH (1% soln/water)  
 Boiling Point Not available.  
 Not available.  
 Melting Point  
 Critical Temperature Not available.  
 Specific Gravity 7.56 (Water = 1)  
 Vapor Pressure Not applicable.  
 Vapor Density Not available.  
 Not available.  
 Volatility  
 Odor Threshold Not available.  
 Water/Oil Dist. Coeff. Not available.  
 Ionicity (in Water) Not available.  
 Dispersion Properties Not available.  
 Solubility Very slightly soluble in cold water.

#### **10. Stability and Reactivity Data**

Stability The product is stable.  
 Instability Temperature Not available.  
 Conditions of Instability Not available.  
 Incompatibility with various Not available.  
 substances  
 Mercurous sulfate  
 Corrosivity Non-corrosive in presence of glass.  
 Special Remarks on Not available.  
 Reactivity

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### MERCUROUS SULPHATE LR

Special Remarks on Not available.

Corrosivity  
Polymerization No.

#### 11. Toxicological Information

Routes of Entry Eye contact. Inhalation. Ingestion.  
Toxicity to Animals Acute oral toxicity (LD50): 152 mg/kg [Mouse Rabbit Mouse Mouse].  
Acute dermal toxicity (LD50): 1175 mg/kg [Rat].  
Chronic Effects on Humans CARCINOGENIC EFFECTS: Classified A5 (Not suspected for human.) by ACGIH.  
The substance is toxic to blood, kidneys, lungs, the nervous system, mucous membranes.  
Other Toxic Effects on Very hazardous in case of ingestion.  
Humans Hazardous in case of skin contact (irritant), of inhalation.  
Slightly hazardous in case of skin contact (permeator).  
Special Remarks on  
Not available.  
Toxicity to Animals  
Special Remarks on Not available.  
Chronic Effects on Humans  
Special Remarks on other Not available.  
Toxic Effects on Humans

#### 12. Ecological Information

Ecotoxicity Not available.  
BOD5 and COD Not available.  
Products of Biodegradation Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.  
The products of degradation are more toxic.  
Toxicity of the Products of Biodegradation  
Special Remarks on the Not available.  
Products of Biodegradation

#### 13. Disposal Considerations

##### Waste Disposal

#### 14. Transport Information

DOT Classification CLASS 6.1: Poisonous material.  
: Mercury sulfate : UN1645 PG: II  
Identification  
Special Provisions for Marine Pollutant  
Transport  
Mercurous sulfate  
DOT (Pictograms)

#### 15. Other Regulatory Information and Pictograms

California prop. 65: This product contains the following ingredients for which the State of California has found to Federal and State cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: Regulations Mercurous sulfate  
California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: Mercurous sulfate  
Pennsylvania RTK: Mercurous sulfate  
Massachusetts RTK: Mercurous sulfate  
TSCA 8(b) inventory: No products were found.  
California  
California prop. 65: This product contains the following ingredients for which the State of California has found Proposition 65 to cause birth defects which would require a warning under the statute: Mercurous sulfate  
Warnings Other Regulations OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).  
CLASS D-1A: Material causing immediate and serious toxic effects (VERY TOXIC).  
Other Classifications WHMIS (Canada)  
CLASS D-2A: Material causing other toxic effects (VERY TOXIC).  
DSCG (EEC) R36/38- Irritating to eyes and skin.  
Health Hazard

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**MATERIAL SAFETY DATA SHEET (MSDS)****MERCUROUS SULPHATE LR**

HMIS (U.S.A.) 3 National Fire Protection

0 Flammability  
0 Association (U.S.A.)

Fire Hazard  
3 0 Reactivity

Health  
Reactivity

0  
Specific hazard  
Protective Equipment  
Gloves.

Mercurous sulfate  
Lab coat.

Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.

**16. Other Information**

**Product Use:** Laboratory Reagent.

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

**DISCLAIMER:**

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- **SUVCHEM** shall not be responsible for any damage resulting from handling or from contact with the above product.
- **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

**End of document**