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## MATERIAL SAFETY DATA SHEET (MSDS)

### MERCURIC OXIDE RED LR

#### 1. Identification of the substance/mixture and of the company/undertaking

##### 1.1. Product identifier

Trade name : MERCURIC OXIDE RED LR

Product code : M0134100500

Identification of the product : MERCURIC OXIDE RED EXTRA PURE 99%  
CAS No: 21908-53-2

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

Use : Industrial. For professional use only.

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

Company identification : SUVCHEM  
Chaitanya Tower, 2nd Floor, Office # 206,  
Siddharth Nagar, S.V. Road,  
Goregaon (West), Mumbai - 400062,  
Maharashtra, India.  
Contact: +91 22 28725393 / 94 / 95  
Email ID: info@suvchem.com/care@suvchem.com

##### 1.4. Emergency telephone number

Phone no. : + 91 22 28725393 / 94 / 95 (9:00am - 6:00 pm) [ Office hours ]

#### 2. Hazards identification -DSD

##### 2.1. Classification of the substance or mixture

###### Classification EC 67/548 or EC 1999/45

Classification : T+; R26/27/28  
R33  
N; R50-53

###### Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

Health hazards : Acute toxicity, dermal - Category 1 - Danger (CLP : Acute Tox. 1) H310  
Acute toxicity, Oral - Category 1 - Danger (CLP : Acute Tox. 1) H300  
Acute toxicity, Inhalation - Category 2 - Danger (CLP : Acute Tox. 2) H330

Environmental hazards : Hazardous to the aquatic environment - Acute hazard - Category 1 - Warning (CLP : Aquatic Acute 1) H400  
Hazardous to the aquatic environment - Chronic hazard - Category 1 - Warning (CLP : Aquatic Chronic 1) H410

##### 2.2. Label elements

### MATERIAL SAFETY DATA SHEET (MSDS)

### MERCURIC OXIDE RED LR

#### 2. Hazards identification -DSD (continued)

##### Labelling EC 67/548 or EC 1999/45

##### Symbol(s)



##### Symbol(s)

: T+ : Very toxic  
N : Dangerous for the environment

##### R Phrase(s)

: R26/27/28 : Very toxic by inhalation, in contact with skin and if swallowed.  
R33 : Danger of cumulative effects.  
R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

##### S Phrase(s)

: S13 : Keep away from food, drink and animal feedingstuffs.  
S28 : After contact with skin, wash immediately with  
S45 : In case of accident or if you feel unwell, seek medical advice immediately ( show the label when possible).  
S60 : This material and its container must be disposed of as hazardous waste.  
S61 : Avoid release to the environment. Refer to special instructions/Safety data sheets.

##### Labelling Regulation EC 1272/2008 (CLP)

##### Hazard pictograms



##### Signal words

: Danger

##### Hazard statements

: H300 : Fatal if swallowed.  
H310 : Fatal in contact with skin.  
H330 : Fatal if inhaled.  
H410 : Very toxic to aquatic life with long lasting effects.

##### Precautionary statements

##### • Prevention

: P284: Wear respiratory protection.  
P280: Wear protective gloves, protective clothing, eye protection, face protection.  
P271: Use only outdoors or in a well-ventilated area.  
P260: Do not breathe dust, fume, gas, mist, vapours, spray.  
P273: Avoid release to the environment.  
P264: Wash thoroughly after handling.  
P270: Do not eat, drink or smoke when using this product.

##### • Response

: P301+P310: IF SWALLOWED : Immediately call a POISON CENTER or doctor.  
P391: Collect spillage.  
P304+P340: IF INHALED : Remove to fresh air and keep at rest in a position comfortable for breathing.  
P302+P350: IF ON SKIN : Gently wash with plenty of soap and water.  
P363: Wash contaminated clothing before reuse.  
P361: Remove immediately all contaminated clothing.

## MATERIAL SAFETY DATA SHEET (MSDS)

### MERCURIC OXIDE RED LR

#### 2. Hazards identification -DSD (continued)

- **Storage** : P403+P233: Store in well-ventilated place. Keep container tightly closed.  
P405: Store locked up.
- **Disposal considerations** : P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

#### 2.3. Other hazards

- Other hazards** : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

#### 3. Composition/information on ingredients

**Substance / Preparation** : MERCURIC OXIDE RED EXTRA PURE 99%

Substance.

Contains no other components or impurities which will influence the classification of the product.

#### 4. First aid measures

##### 4.1. Description of first aid measures

- Inhalation** : Assure fresh air breathing. Allow the victim to rest. Specific treatment is urgent (see on this label). Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor.
- Skin contact** : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash contaminated clothing before reuse. Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water. Specific treatment (see on this label). Immediately call a POISON CENTER or doctor.
- Eye contact** : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
- Ingestion** : Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor. Specific treatment (see on this label).

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

- Symptoms relating to use** : Fatal if swallowed.  
Fatal in contact with skin.  
Fatal if inhaled.

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

- General information** : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

**MATERIAL SAFETY DATA SHEET (MSDS)****MERCURIC OXIDE RED LR****5. Fire-fighting measures****5.1. Extinguishing media**

- Suitable extinguishing media** : Foam. Dry powder. Carbon dioxide. Water spray. Sand.  
**Unsuitable extinguishing media** : Do not use a heavy water stream.  
**Surrounding fires** : Use water spray or fog for cooling exposed containers.

**5.2. Special hazards arising from the substance or mixture**

- Hazardous combustion products** : Under fire conditions, hazardous fumes will be present.

**5.3. Advice for fire-fighters**

- Protection against fire** : Do not enter fire area without proper protective equipment, including respiratory protection.  
**Special procedures** : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

**6. Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

- For emergency responders** : Equip cleanup crew with proper protection.  
Ventilate area.  
**For non-emergency personnel** : Evacuate unnecessary personnel.

**6.2. Environmental precautions**

- Environmental precautions** : Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.  
Avoid release to the environment.

**6.3. Methods and material for containment and cleaning up**

- Clean up methods** : On land, sweep or shovel into suitable containers. Minimize generation of dust.  
Store away from other materials.

**6.4. Reference to other sections**

See section 8. Exposure controls/personal protection

**7. Handling and storage****7.1. Precautions for safe handling**

**MATERIAL SAFETY DATA SHEET (MSDS)**
**MERCURIC OXIDE RED LR**
**7. Handling and storage (continued)**

- Handling** : Do not breathe dust, fume, gas, mist, vapours, spray. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.
- Technical protective measures** : Provide good ventilation in process area to prevent formation of vapour.

**7.2. Conditions for safe storage, including any incompatibilities**

- Storage** : Keep only in the original container in a cool, well ventilated place. Keep container tightly closed.
- Storage - away from** : Strong bases. Strong acids. Sources of ignition. Direct sunlight.

**7.3. Specific end use(s)**

- Specific end use(s)** : None.

**8. Exposure controls/personal protection**
**8.1. Exposure controls**

- Personal protection** : Avoid all unnecessary exposure.
- **Respiratory protection** : Wear respiratory protection.
  - **Hand protection** : Wear protective gloves.
  - **Eye protection** : Chemical goggles or safety glasses.
  - **Others** : When using, do not eat, drink or smoke.

**8.2. Control parameters**

- Occupational Exposure Limits** : No data available.

**9. Physical and chemical properties**
**9.1. Information on basic physical and chemical properties**

- Physical state at 20 °C** : Solid.
- Colour** : Orange red to yellow
- Odour** : Odorless
- Odour threshold** : No data available.
- pH value** : Not applicable.
- Melting point [°C]** : 500 °C
- Decomposition point [°C]** : N/A
- Critical temperature [°C]** : N/A

**MATERIAL SAFETY DATA SHEET (MSDS)**
**MERCURIC OXIDE RED LR**
**9. Physical and chemical properties (continued)**

Auto-ignition temperature [°C]	: N/A
Flammability (solid, gas)	: N/A
Flash point [°C]	: N/A
Boiling point [°C]	: N/A
Initial boiling point [°C]	: N/A
Final boiling point [°C]	: N/A
Evaporation rate	: 0,6
Vapour pressure [20°C]	: N/A
Vapour pressure mm/Hg	: N/A
Vapour density	: N/A
Density [g/cm <sup>3</sup> ]	: 11,14
Relative density, gas (air=1)	: N/A
Relative density, liquid (water=1)	: N/A
Solubility in water [% weight]	: Insoluble
Solubility in water	: N/A
Log Pow octanol / water at 20°C	: No data available.
Solubility	: N/A
Viscosity at 40°C [mm <sup>2</sup> /s]	: N/A

**9.2. Other information**

Explosive properties	: N/A
Explosion limits - upper [%]	: N/A
Explosion limits - lower [%]	: N/A
Oxidising properties	: No data available.

**10. Stability and reactivity**
**10.1. Reactivity.**

Reactivity : Not established.

**10.2. Chemical stability**

Chemical stability : Stable under recommended storage conditions.

**10.3. Possibility of hazardous reactions**

Hazardous reactions : Not established.

**10.4. Conditions to avoid**

## MATERIAL SAFETY DATA SHEET (MSDS)

### MERCURIC OXIDE RED LR

#### 10. Stability and reactivity (continued)

**Conditions to avoid** : Direct sunlight. Extremely high or low temperatures.

#### 10.5. Incompatible materials

**Materials to avoid** : Strong acids. Strong bases.

#### 10.6. Hazardous decomposition products

**Hazardous decomposition products** : Fumes. Carbon monoxide. Carbon dioxide.

#### 11. Toxicological information

##### 11.1. Information on toxicological effects

##### Acute toxicity

- Inhalation : Fatal if inhaled.
- Dermal : Fatal in contact with skin.
- Ingestion : Fatal if swallowed.

**Corrosion** : Based on available data, the classification criteria are not met.

**Irritation** : Based on available data, the classification criteria are not met.

**Sensitization** : Based on available data, the classification criteria are not met.

**Mutagenicity** : Based on available data, the classification criteria are not met.

**Carcinogenicity** : Based on available data, the classification criteria are not met.

**Toxic for reproduction** : Based on available data, the classification criteria are not met.

**STOT-single exposure** : Based on available data, the classification criteria are not met.

**STOT-repeated exposure** : Based on available data, the classification criteria are not met.

**Aspiration hazard** : Based on available data, the classification criteria are not met.

#### 12. Ecological information

##### 12.1. Toxicity

**Toxicity information** : Very toxic to aquatic life with long lasting effects.

##### 12.2. Persistence - degradability

**Persistence - degradability** : May cause long-term adverse effects in the environment.

##### 12.3. Bioaccumulative potential

**Bioaccumulative potential** : Not established.

**MATERIAL SAFETY DATA SHEET (MSDS)**
**MERCURIC OXIDE RED LR**
**12. Ecological information (continued)**
**12.4. Mobility in soil**

Mobility in soil : Not established.

**12.5. Results of PBT and vPvB assessment**

Results of PBT and vPvB assessment : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

**12.6. Other adverse effects**

Environmental precautions : Avoid release to the environment.

**13. Disposal considerations**
**13.1. Waste treatment methods**

General : Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.  
 Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Special precautions : Hazardous waste due to toxicity.

**14. Transport information**
**14.1. Land transport (ADR-RID)**

Proper shipping name : MERCURY OXIDE  
 UN N° : 1641  
 H.I. nr : 60  
 ADR - Class : 6.1  
 Labelling - Transport : 6.1 : Toxic substances.



ADR - Classification code : T5  
 ADR - Group : II  
 ADR - Packing instructions : P002  
 ADR - Limited Quantity : 500 G



**MATERIAL SAFETY DATA SHEET (MSDS)**
**MERCURIC OXIDE RED LR**
**14. Transport information (continued)**

**ADR - Tunnel code** : D/E : Bulk or tank carriage: Passage forbidden through tunnels of category D and E. Other carriage: Passage forbidden through tunnels of category E.


**14.2. Sea transport (IMDG) [English only]**

**Proper shipping name** : MERCURY OXIDE  
**UN N°** : 1641  
**IMO-IMDG - Class or division** : 6.1 : Toxic substances.  
**IMO-IMDG - Packing group** : II  
**IMO-IMDG - Packing instructions** : P002  
**IMO-IMDG - Limited quantities** : 500 g  
**IMO-IMDG - Marine pollution** : Yes  
**EMS-Nr** : F-A S-A

**14.3. Air transport (ICAO-IATA) [English only]**

**Proper shipping name** : MERCURY OXIDE  
**UN N°** : 1641  
**IATA - Class or division** : 6.1 : Toxic substances.  
**IATA - Packing group** : II  
**IATA - Passenger and Cargo Aircraft** : ALLOWED  
 - Passenger and Cargo - Packing instruction : 669  
 - Passenger and Cargo - Maximum Quantity/Packing : 25 kg  
**IATA - Cargo only** : ALLOWED  
 - Cargo only - Packing instruction : 676  
 - Cargo only - Maximum Quantity/Packing : 100 kg  
**IATA - Limited Quantities** : 1 kg  
**ERG-Nr** : 6L

**15. Regulatory information**
**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**Safety, health and environmental regulations/legislation specific for the substance or mixture** : Ensure all national/local regulations are observed.

**MATERIAL SAFETY DATA SHEET (MSDS)**

**MERCURIC OXIDE RED LR**

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.

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