

CHAITANYA CHS, 2<sup>nd</sup> FLOOR, OFFICE # 206, SIDDHARTH NAGAR, S.V.ROAD, GOREGAON (W), MUMBAI 400062, MH, INDIA.  
CONTACT: +9122 28725393 /94/ 95 | EMAILID: CARE@SUVCHEM.COM

## MATERIAL SAFETY DATA SHEET (MSDS)

### CADMIUM SULPHATE OCTAHYDRATE LR

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

##### 1.1. Product identifier

Trade name : CADMIUM SULPHATE OCTAHYDRATE LR

Product code : C0054700500

Identification of the product : CADMIUM SULPHATE (OCTAHYDRATE) 98%  
CAS No : 7790-84-3

##### 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  
T; R25-R48/23/25  
N; R50-53

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

Health hazards : Specific Target Organ Toxicity - Repeated exposure - Category 1 - Danger (CLP : STOT RE 1) H372  
Acute toxicity, Oral - Category 3 - Danger (CLP : Acute Tox. 3) H301  
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

**MATERIAL SAFETY DATA SHEET (MSDS)**  
**CADMIUM SULPHATE OCTAHYDRATE LR**
**2. Hazards identification -DSD (continued)**
**2.2. Label elements**
**Labelling EC 67/548 or EC 1999/45**
**Symbol(s)**

**Symbol(s)**

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

**R Phrase(s)**

: R45 : May cause cancer.  
 R46 : May cause heritable genetic damage.  
 R60 : May impair fertility.  
 R61 : May cause harm to the unborn child.  
 R25 : Toxic if swallowed.  
 R26 : Very toxic by inhalation.  
 R48/23/25 : Toxic : danger of serious damage to health by prolonged exposure through inhalation and if swallowed.  
 R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**S Phrase(s)**

: S53 : Avoid exposure - obtain special instructions before use.  
 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**

: H330 : Fatal if inhaled.  
 H301 : Toxic if swallowed.  
 H372 : Causes damage to organs through prolonged or repeated exposure.  
 H410 : Very toxic to aquatic life with long lasting effects.

**Precautionary statements**
**• Prevention**

: P284: Wear respiratory 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.

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

- **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.  
P314: Get medical advice if you feel unwell.
- **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** : CADMIUM SULPHATE (OCTAHYDRATE) 98%  
CAS No :7790-84-3  
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. Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor. Specific treatment is urgent (see on this label).
- Skin contact** : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
- 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** : Causes damage to organs through prolonged or repeated exposure.  
Fatal if inhaled.  
Swallowing a small quantity of this material will result in serious health hazard.

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

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**4. First aid measures (continued)**

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

**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**

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#### 6. Accidental release measures (continued)

See section 8. Exposure controls/personal protection

#### 7. Handling and storage

##### 7.1. Precautions for safe handling

**Handling** : Use only outdoors or in a well-ventilated area. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Do not breathe dust, fume, gas, mist, vapours, spray.

**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.

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**9. Physical and chemical properties (continued)**

Colour	: White crystalline
Odour	: Odorless
Odour threshold	: No data available.
pH value	: Not applicable.
Melting point [°C]	: No data available.
Decomposition point [°C]	: N/A
Critical temperature [°C]	: N/A
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	: N/A
Vapour pressure [20°C]	: N/A
Vapour pressure mm/Hg	: N/A
Vapour density	: N/A
Density [g/cm <sup>3</sup> ]	: 3,08
Relative density, gas (air=1)	: N/A
Relative density, liquid (water=1)	: N/A
Solubility in water [% weight]	: Freely soluble
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.
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**10.2. Chemical stability.**

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

**Chemical stability** : Stable under recommended storage conditions.

#### 10.3. Possibility of hazardous reactions

**Hazardous reactions** : Not established.

#### 10.4. Conditions to avoid

**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** : Based on available data, the classification criteria are not met.
- **Ingestion** : Toxic 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** : Causes damage to organs through prolonged or repeated exposure.

**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.

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#### 12. Ecological information (continued)

##### 12.2. Persistence - degradability

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

##### 12.3. Bioaccumulative potential

**Bioaccumulative potential** : Not established.

##### 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** : CADMIUM COMPOUND  
**UN N°** : 2570  
**H.I. nr** : 60  
**ADR - Class** : 6.1  
**Labelling - Transport** : 6.1 : Toxic substances.

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**14. Transport information (continued)**


ADR - Classification code : T5  
 ADR - Group : III  
 ADR - Packing instructions : P002 R001 LP002  
 ADR - Limited Quantity : 5 KG  
 ADR - Tunnel code



: E : Passage forbidden through tunnels of category E.

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

Proper shipping name : CADMIUM COMPOUND  
 UN N° : 2570  
 IMO-IMDG - Class or division : 6.1 : Toxic substances.  
 IMO-IMDG - Packing group : III  
 IMO-IMDG - Packing instructions : P002 LP02  
 IMO-IMDG - Limited quantities : 5 kg  
 IMO-IMDG - Marine pollution : Yes  
 EMS-Nr : F-A S-A

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

Proper shipping name : CADMIUM COMPOUND  
 UN N° : 2570  
 IATA - Class or division : 6.1 : Toxic substances.  
 IATA - Packing group : III  
 IATA - Passenger and Cargo Aircraft : ALLOWED  
 - Passenger and Cargo - Packing instruction : 670  
 - Passenger and Cargo - Maximum Quantity/Packing : 100 kg  
 IATA - Cargo only : ALLOWED  
 - Cargo only - Packing instruction : 677  
 - Cargo only - Maximum Quantity/Packing : 200 kg  
 IATA - Limited Quantities : 10 kg

**MATERIAL SAFETY DATA SHEET (MSDS)**  
**CADMIUM SULPHATE OCTAHYDRATE 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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