



# SAFETY DATA SHEET

## 1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Catalogue No. : C 10417  
Product Name : Cadmium sulphate

Manufacturer / supplier identification

Company : NICE Chemicals (P) Ltd. , Cochin , India  
Tel - 0484 2800212 , 2802755

Contact For Information : Tel . No. – 0484 2802536 Fax : 0484 2802483  
Emergency Telephone No. : 0484 2801583 Telefax No. : 0484 2802483

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## 2. COMPOSITION / INFORMATION ON INGREDIENTS

CAS-No : 7790-84-3  
Ec-Index No. : 048-009-00  
Molar Mass : 769.51  
EC-No. : 233-331-6  
Molecular Formula:  $\text{Cd}_3\text{O}_{12}\text{S}_3 \cdot 8 \text{H}_2\text{O}$

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## 3. HAZARDS IDENTIFICATION

May cause cancer by inhalation. Also harmful if swallowed. Also toxic . Danger of serious damage to health by prolonged exposure through inhalation and if swallowed. Restricted to professional users. Obtain special instructions before use.

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## 4. FIRST AID MEASURES

After inhalation : fresh air . summon doctor  
After skin contact : wash off with plenty of water . Remove contaminated clothing.



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After eye contact : rinse out with plenty of water with eyelids held open .

After swallowing : make victim drink plenty of water, summon doctor .

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### 5. FIRE – FIGHTING MEASURES

Suitable extinguishing media : In adaption to materials available in the  
immediate neighbourhood

Special risks : Non combustible. Development of hazardous combustion gases or vapours possible in the event of fire.

The following may develop in the event of fire: sulphur oxides, toxic vapours.

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### 6. ACCIDENTAL RELEASE MEASURES

Procedures for cleaning / absorption :

Take up dry. Forward for disposal. Cleanup affected area.

Person – related precautionary measures : Avoid generation of dusts , do not inhale dusts

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### 7. HANDLING AND STORAGE

Handling : No further requirements.

Storage : Tightly closed .In a well ventilated Place. At +15<sup>0</sup> C to +25<sup>0</sup> C. Accessible only to authorised persons.

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### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protective equipment

Respiratory protection : required when dusts are generated .

Eye protection : required

Hand protection : required

Industrial hygiene : Change contaminated clothing . Application of skin protective barrier cream recommended . Wash hands after working with substance . Avoid generation of dusts.

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

Form : solid  
Colour : colourless to white  
Odour : odourless  
pH value : 3.0-6.0  
Melting temperature : 41.5 °C  
Boiling temperature :  
Ignition temperature : Not available  
Flash point : Not available  
Explosion limits lower: Not available  
Upper : Not available  
Relative vapour density: Not available  
Density (20°C) : 3.10 g/cm<sup>3</sup>  
Solubility in  
water (20°C) : 1130 g/l  
ethanol(20°C) : almost insoluble  
Thermal decomposition : >80 °C

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### 10. STABILITY AND REACTIVITY

Conditions to be avoided : no information available.

Substance to be avoided : no information available.

Hazardous decomposition products : Toxic vapours

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### 11. TOXICOLOGICAL INFORMATION

Acute toxicity

LD<sub>50</sub> (oral, rat): 280 mg/Kg

The literature data available to us do not conform with the labelling prescribed by the EC. The EC has dossiers which have not been published.

Subacute to chronic toxicity

Animal experiments performed under conditions comparable with the workplace situation have shown the substance to be carcinogenic.

Bacterial mutagenicity:

Bacillus subtilis: positive; Escherichia coli: positive. A mutagenic effect cannot be excluded.

Further toxicological information

After swallowing: nausea, vomiting, gastric pain. Damage of: liver, kidneys. After absorption: changes in the blood picture, spasms.

Long term exposure to the chemical results in toxic effects on kidneys, lungs, bones.

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### 12. ECOLOGICAL INFORMATION

Ecotoxic effects:

The following applies to cadmium compounds in general: degradability: biodegradability 0;

Hazard for drinking water.

Further ecologic data: Do not allow to enter waters, waste water, or soil.

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### 13. DISPOSAL METHOD

Product : There are no uniform EC regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EC member countries through corresponding laws and regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste.

Packaging : Disposal in compliance with official regulations. Handle contaminated packaging as in the same way as the substance itself. If not officially specified differently, non-contaminated packaging may be treated like household waste or recycled.

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### 14. TRANSPORT INFORMATION

Transport over land ADR/RID :

GGVS/GGVE class: 6.1      Number and letter: 61c      ADR/RID class : 6.1  
Number and letter: 61c

Name of material: CADMIUM COMPOUND

River Transport AND/AdNR

Not examined

Sea transport IMDG :

IMDG class : 6.1      UN-No: 2570      Packing group: III  
Ems : 6.1-04      MFAG: 115

Correct technical name: CADMIUM COMPOUND

Air transport ICAO-TI :

ICAO/IATA class :6.1      UN/ID-No: 2570      Packing group: III  
and IATA-DGR class: 6.1

Correct technical name: CADMIUM COMPOUND

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**15. REGULATORY INFORMATION :**

Labelling according to EC Directives

Symbol : T Toxic

R- Phrases : 49-22-48/23/25 May cause cancer by inhalation. Also harmful if swallowed. Also toxic: danger of serious damage to health by prolonged exposure through inhalation and if swallowed

S-phrases : 53-45 Avoid exposure- obtain special instructions before Use. In case of accident or if you feel unwell, Seek medical advice immediately

Water pollution class : 3 (highly polluting substance)

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**16. OTHER INFORMATION**

The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions . It does not represent a guarantee of the properties of the product.

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