



SAFETY DATA SHEET

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Catalogue No. : C 10117
Product Name : CADMIUM CARBONATE

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 Tele fax No. : 0484 2802483

2. COMPOSITION / INFORMATION ON INGREDIENTS

Synonyms : Carbonic acid cadmium salt
Hazardous ingredients
EC –Index-No. : 048-001-00-5
Molar mass : 172.41
CAS-No. : 513-78-0
EC-No. : 208-168-9
Molecular formula : CdO_3

3. HAZARDS IDENTIFICATION : Harmful by inhalation, in contact skin and if swallowed.

4. FIRST AID MEASURES

After skin contact : Wash off with plenty of water. Remove contaminated clothing.
After eye contact : Rinse out with plenty of water . If pain persists, summon eye specialist.



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After inhalation : Fresh air. Consult doctor if feeling unwell.

After swallowing : Make the victim drink plenty of water, induce vomiting. Summon doctor if feeling unwell.

5. FIRE – FIGHTING MEASURES

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

Special risks: No-combustible. Ambient fire may liberate hazardous vapours. Special protective equipment for fire fighting:

Do not stay in dangerous zone without self-contained breathing apparatus.

Other information : Prevent fire-fighting water from entering surface water or ground water.

6. ACCIDENTAL RELEASE MEASURES

Person-related precautionary measures:

Avoid generation of dusts; do not inhale dusts. Avoid substance contact.

Procedures for cleaning/absorption: Carefully take up dry.

Forward for disposal. Clean up effected area.

Environmental-protection measures: Do not allow to enter sewerage system.



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7. HANDLING AND STORAGE

Handling : No further requirements.

Storage : Tightly closed . Dry. In a well – ventilated place.

Storage temperature: no restrictions.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protective equipment :

Respiratory protection : Required when dusts are generated.

Eye protection : Required

Hand protection : Required

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Industrial hygiene : Immediate change contaminated clothing.

Apply skin –protective barrier cream. Wash hands and face after working with substance. .Under no circumstances eat or drink at workplace. Avoid generation of dusts.

9. PHYSICAL & CHEMICAL PROPERTIES

Form : Solid
Colour : White
Odour : Odourless
PH value : Not available
Melting temperature : 357 ° C



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Boiling temperature : Not available
Ignition temperature : Not available
Flash point : Not available
Explosion limits lower : Not available
Upper : Not available
Relative vapour density : Not available
Density(20 °C) : 4.26 g/cm³
Bulk density : 600 kg/m³
Solubility in water(20°C) : In soluble
Diluted acids : Soluble
Diluted acids (20 °C) : Soluble
Thermal decomposition : Above melting point

10. STABILITY AND REACTIVITY

Conditions to be avoided : Temperatures above melting point.

Substances to be avoided: Acids ;

Hazardous decomposition ;products : In the event of fire: Cadmium fume

11. TOXICOLOGICAL INFORMATION

Acute toxicity: LD₅₀ (oral, rat): 438 mg/kg;

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

Further toxicological information : We have no description of any toxic symptoms. The data available to us do not suffice to permit any industrial-toxicological assessment.



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The following applies to cadmium compounds in general: mucosal irritations, coughing, and dyspnoea after inhalation. Inhalation may lead to the formation of oedemas in the respiratory tract. Toxic effect on gastrointestinal tract. Long-term exposure to the chemical results in toxic effect on kidneys, lungs, bones.

Further data: Further hazardous properties cannot be excluded. The product should be handled with the care usual when dealing with chemicals.

12. ECOLOGICAL INFORMATION

Ecotoxic effects: Biological effects : Toxic for aquatic organisms.

Hazard for drinking water supplies.

Fish toxicity: *L. idus* LC₅₀ : 8.8 mg/l ; *S. gairdnerii* LC₅₀: 0.007 mg/l /96 h;

Daphnia toxicity: *Daphnia magna* LC₅₀: 0.6 mg/l;

Bacterial toxicity : *Ps. Putida* EC₅₀: 0.23 mg/l;

Algal toxicity : *Scenedesumus subspicatus* EC₅₀ : 0.08 mg/l ;

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

13. DISPOSAL METHOD

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 & 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.



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

14. TRANSPORT INFORMATION

Transport over land GGVS/GGVE class : 6.1 Number and letter : 61c
ADR/RID & GGVS/GGVE ADR/RID class : 6.1 Number and letter : 61c
Name of material : CADMIUM CARBONATE

River transport AND/ADNR : Not examined

Sea transport IMDG: IMDG class : 6.1 UN-No. : 2570 Packaging group : 111
EMS : 6.1-04 MFAG : 115
Correct technical name : CADMIUM CARBONATE

Air transport ICAO-TI : ICAO/IATA class : 6.1 UN/ID-No. : 2570
Packaging group : 111
and IATA-DGR Correct technical name : CADMIUM COMPOUND

15. REGULATORY INFORMATION

Labelling according to EC Directives

Symbol : Xn Harmful
R-phrases : 20/ 21/22 Harmful in contact with skin and if swallowed.
S-phrases : 22 Do not breathe dust.
EC No. : 208-168-9 EC label
Water pollution class: 3 (highly polluting substance) (own classification)



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16. OTHER INFORMATION

Reason for alteration:

Change in constituent data.

Addition in the chapter toxicology.

General update.

Addition in the chapter ecology.

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