



SAFETY DATA SHEET

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Catalogue No. : C 20517

Product Name : **CADMIUM OXALATE TRIHYDRATE**

Manufacturer / supplier identification

Company : NICE CHEMICALS PVT.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

CAS-No :

EC –No. : 208-792-1

Molar mass : 254.41 g/mol

Molecular formula : $\text{Cd}(\text{COO})_2 \cdot 3\text{H}_2\text{O}$

3. HAZARDS IDENTIFICATION

Harmful by inhalation, in contact with skin and if swallowed.

4. FIRST AID MEASURES

After inhalation : Fresh air. Summon doctor.

After skin contact : wash off with plenty of water. Remove contaminated clothing.

After eye contact : Rinse out with plenty of water with the eyelid held wide open. Summon eye specialist if necessary.



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After swallowing : Make victim drink plenty of water, induce vomiting. Immediately summon doctor.

5. FIRE – FIGHTING MEASURES

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

Special risks : Combustible. Development of hazardous combustion gases or vapours possible in the event of fire. The following may develop in event of fire : Cadmium fume.

Special protective equipment for fire fighting : Do not stay in dangerous zone without self-contained breathing apparatus.

Other information : Contain escaping vapours with water. Prevent fire-fighting water from entering surface water or ground water.

6. ACCIDENTAL RELEASE MEASURES

Procedures for cleaning/absorption : Take up dry. Forward for disposal. Clean up affected area.

Avoid generation of dusts.

Person-related precautionary measures : Avoid substance contact. Avoid generation of dusts; do not inhale dusts.

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. Accessible only for authorised persons. Storage temperature : No restrictions.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protective equipment :

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.

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 and face after working with substance. Avoid generation of dusts.



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9. PHYSICAL AND CHEMICAL PROPERTIES

Form : Solid
Colour : white
Odour : odourless
PH value at 50 g/l H₂O (20⁰C) : 7
Melting temperature : 256 ⁰C
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 (20⁰C) : 2.01 g/ cm³
Bulk density : ~ 1200 kg/m³
Solubility in water(20⁰C) : freely soluble
Ethanol (20⁰C) : freely soluble
Thermal decomposition : > 130 ⁰C

10. STABILITY AND REACTIVITY

Conditions to be avoided : None.
Substance to be avoided : None.
Hazardous decomposition products : toxic vapours (warming/heating)
Further information : Hygroscopic



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11. TOXICOLOGICAL INFORMATION

Acute toxicity : Quantitative data on the toxicity of this product are not available.

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

Further toxicological information : Properties which must be anticipated by analogy : CNS disorders.

After inhalation : After a latency period : headache, fever, nausea, bronchitis, cyanosis.

In high concentrations : pulmonary oedema, death (circulation failure). Latency time until onset of action.

After swallowing : gastrointestinal symptoms (vomiting, diarrhoea, pain, spasms).

Damage of : liver, kidneys. Chronic intoxication : Damage of 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 : The following applies to cadmium compounds in general :

degradability : biodegradability ; biological effects : fish : *L.macrochirus* 96h. LDLo : 1.94 mg/l ; *C.auratus* 8.5 h. toxic as from 0.0165 mg/l/; bacteria : *E.coli* toxic as from 0.15 mg/l ; arthropods : *Daphnia* toxic as from 0.1 mg/l; *Daphnia magna* toxic as from 0.0026 mg/l; protozoa : toxic as from 0.2 mg/l ; algae : *Sc.quadricauda* toxic as from 0.1 mg/l; hazardous for drinking water.

Further ecological 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 that you corresponding laws and regulations. We recommend 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 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

Land transport	:	GGVS, GGVE, ADR, RID
Classification	:	6.1
Name	:	2570 CADMIUM COMPOUND
Transport by river	:	ADN, ADNR
Classification	:	Not tested
Transport by sea	:	IMDG, GGVsee
Classification	:	6.1 /UN 2570/ PG III
Ems	:	6.1- 04
MFAG	:	115
Name	:	CADMIUM COMPOUND
Transport by air	:	ICAO, IATA
Classification	:	6.1 /UN 2570 / PG III
Name	:	CADMIUM COMPOUND



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15. REGULATORY INFORMATION

Labelling according to EC Directives

Symbol : Xn Harmful
N Dangerous for the environment.

R-phrases : 20-21/22 Harmful by inhalation, in contact with skin and if swallowed.

S-phrases : 22 Do not breathe dust.

EC No. : 208-853-2 EC label.

16. OTHER INFORMATION

Reason for alteration

General update.

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.
