



SAFETY DATA SHEET

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Catalogue No. : C 14017
Product Name : **COPPER OXIDE**

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

2. COMPOSITION / INFORMATION ON INGREDIENTS

CAS-No : 1317-38-0 Molecular formula : CuO
EC-No. : 215-269-1 Molar mass : 79.55

3. HAZARDS IDENTIFICATION : Harmful 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 with eyelids held open .If pain persists
summon doctor.

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

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



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5. FIRE – FIGHTING MEASURES

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

Special risks : none

Other information: Non combustible

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.

Environmental protection measures: do not allow to enter sewage system.

7. HANDLING AND STORAGE

Handling : No further requirements.

Storage : Tightly closed . storage temperature: no restrictions.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protective equipment

Respiratory protection : required when dusts are generated .

Eye protection : required

Hand protection : not required



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

Industrial hygiene : Change contaminated clothing . Wash hands after working with substance .

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	:	Solid
Colour	:	Black
Odour	:	Odourless
Melting temperature	:	~ 1336 °C
Boiling temperature	:	Not available
pHvalue at 50g/l H ₂ O(25 ⁰ C)	:	~7
Ignition temperature	:	Not available
Flash point	:	Not applicable
Explosion limits lower	:	Not available
Upper	:	Not available
Relative vapour density	:	Not available
Density (20 ⁰ C)	:	~6.45 g/ cm ³
Bulk density	:	~500 Kg/m ³
Solubility in water(20 ⁰ C)	:	Almost insoluble
diluted acids (20 ⁰ C)	:	Soluble



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10. STABILITY AND REACTIVITY

Conditions to be avoided : no information available.

Substance to be avoided: fluorine, alkali metals, alkaline earth metals, Al, B, hydrazine and derivatives, hydroxyl amine, Si compounds, anhydrides, hydrogen, hydrogen sulphide.

Hazardous decomposition products : No information available.

Further information: hygroscopic.

11. TOXICOLOGICAL INFORMATION

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

Further toxicological information

After swallowing: Possible symptoms: pain, vomiting, diarrhoea, CNS disorders.

Further data : No hazardous properties are to be expected when it is handled and used with appropriate care.

12. ECOLOGICAL INFORMATION

Ecotoxic effects: Quantitative data on the ecological effect of this product are not available.

Further ecologic data: The following applies to copper compounds : biological effects: toxic for aquatic organisms; copper ions toxic for fish, algae, protozoa, and bacteria at concentrations below 1 mg/l.

Fish *C. auratus* toxic 0.01 mg/l; mussels: 0.55 mg/l lethal in 12 h; oysters: 0.1 mg/l toxic.

Do not allow to enter waters, waste water, or soil.



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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 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.

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.

14. TRANSPORT INFORMATION : Not subject to transport regulations

15. REGULATORY INFORMATION

Labelling according to EC Directives

Symbol : Xn Harmful
R- Phrases : 22 Harmful if swallowed
S-phrases : 22 do not breathe dust

Water pollution class : 1 (slightly polluting)



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16. OTHER INFORMATION

Reason for alteration

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.
