



SAFETY DATA SHEET

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Catalogue No. : P 10901

Product Name : 1,10- **PHENANTHROLINE HYDRATE**

Manufacturer / supplier identification

Company : NICE Chemicals (P) Ltd. , Cochin ,
India Tel - 0484 – 2788700/701/702

Contact for Information : Tel . No. – 0484 - 2788725/726

Emergency Telephone No. : 0484 - 2788725/726

2. COMPOSITION / INFORMATION ON INGREDIENTS

Synonyms : 1,10- Phenanthroline hydrate

CAS-No : 3829-86-5 Ec-Index No. :

Molar Mass: 234.69 EC-No. : 233-325-1

Molecular Formula : $C_{12}H_9ClN_2 \cdot 2H_2O$

3. HAZARDS IDENTIFICATION

According to the evaluative data available, a classification according to categories of danger as specified in Directive 67/548/EEC and laid down in the legislation of the country required.

4. FIRST AID MEASURES

After inhalation : fresh air .

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 .

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



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5. FIRE – FIGHTING MEASURES

Suitable extinguishing media : Water, foam, carbon dioxide, powder.

Special risks : Combustible . Development of Hazardous combustion gases or vapours possible in the event of fire . the following may develop in the event of fire: chlorine, HCl, nitrogen oxides.

Special protective equipment for fire fighting:

Do not stay in dangerous zone without suitable chemical protection clothing and self contained breathing apparatus .

Other Information :. Contains escaping vapours with water.

6. ACCIDENTAL RELEASE MEASURES

Procedures for cleaning / absorption :

Take up dry. Forward for disposal. Clean up 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. Dry. At +15⁰ to +25⁰ C.



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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

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 . Application of skin protective barrier cream recommended . Wash hands after working with substance.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	:	Solid
Colour	:	Off white
Odour	:	Charecteristic
pH value	:	Not available
Melting temperature	:	215-220°C
Boiling temperature	:	Not available
Ignition temperature	:	Not available
Flash point	:	Not available
Explosion limits lower	:	Not available
Upper	:	Not available



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Relative vapour density : Not available

Density (20⁰ C) : Not available

Bulk density : ~370 Kg/m³

Solubility in

water (20⁰C) : freely soluble

Methanol : soluble

10. STABILITY AND REACTIVITY

Conditions to be avoided : heating

Substance to be avoided :no information available.

Hazardous decomposition products : In the event of fire: chlorine,

HCl, nitrogen oxides.

Further information: The product should be handled with care usual when dealing with chemicals.

11. TOXICOLOGICAL INFORMATION

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

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

12. ECOLOGICAL INFORMATION

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

Further ecologic date: 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 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 :

R- Phrases :

S-phrases :

Water pollution class : 2 (polluting substance)

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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