



SAFETY DATA SHEET

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Catalogue No. : S 13617
Product Name : SODIUM NITROPRUSSIDE

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 : Disodiumpentacyanonitrosylferrate (II)-dihydrate;
Disodiumnitrosylpentacyanoferrate (II)-dihydrate

CAS-No : 13755-38-9 EC No. : 238-373-9
Molar Mass : 297.95 EC Index No. : ----
Molecular Formula : $C_5FeN_6Na_2O \cdot 2H_2O$

3. HAZARDS IDENTIFICATION

Toxic if swallowed.

4. FIRST AID MEASURES

After inhalation : Fresh air. If necessary, apply mouth-to-mouth resuscitation or mechanical ventilation.
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.
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 : Development of hazardous combustion gases or vapours possible in the event of fire.
The following may develop in event of fire : Nitrous gases.
Other information : Non-combustible.

6. ACCIDENTAL RELEASE MEASURES

Person-related precautionary measures : Avoid generation of dusts; do not inhale dusts.
Procedures for cleaning/absorption : Take up dry. Forward for disposal. Clean up affected area.
Environmental-protection measures : Do not allow to enter sewerage system.

7. HANDLING AND STORAGE

Handling : No further requirements.
Storage : Tightly closed. Dry. In a well-ventilated place. At +15° C to +25° C.
Accessible only for authorized persons.

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8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Respiratory protection : Required when dusts are generated.
Eye protection : Required
Hand protection : Required
Industrial hygiene : Change contaminated clothing. Wash hands and face after working with substance. Under no circumstances eat or drink at workplace.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : Solid
Colour : Red
Odour : Odourless
pH value at 50 gm/lt. H₂O(20° C) : ~5
Melting temperature : Not available
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) : 1.71 gm/cm³
Bulk density : ~1000 kg/m³
Solubility in water (20° C) : 400 gm/lt.

10. STABILITY & REACTIVITY : Conditions to be avoided : Strong heating

Substances to be avoided : Acid

Hazardous decomposition products : In the event of fire :

Nitrous gases, hydrogen cyanide.

11. TOXICOLOGICAL INFORMATION : Acute toxicity : LDLo (oral, human) : 20 mg/kg

Further toxicological information :

After swallowing and inhalation: drop in blood pressure, cardiovascular failure, collapse. The following may be released from the substance under unfavourable conditions : hydrogen cyanide.

Possible symptoms : headache, dizziness, tachcardia, dyspnoea, unconsciousness, spasma, respiratory arrest. Cannot be excluded : CNS disorders.

12. ECOLOGICAL INFORMATION : Ecotoxic effects : Quantitative data on the ecological effect of this product

are not available.

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

13. DISPOSAL METHOD

: 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 house-hold waste or recycled.

There are no uniform EC Regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste. Approved waste disposal companies which will advise you on how to dispose of special waste.

14. TRANSPORT INFORMATION

GGVS/GGVE class : 6.1

Number and letter : 41c

Transport over land

ADR/RID class : 6.1

Number and letter : 41c



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ADR/RID and GGVS/GGVE :

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Sea Transport IMDG : IMDG class : 6.1 UN No. : 1588 Packing group : II
Ems : 6.1-04 MFAG : 215
Correct Technical Name : SODIUM NITROPRUSSIDE

Air Transport : ICAO/IATA class : 6.1 UN No. : 1588 Packaging group : II
ICAO-TI & IATA-DGR : Correct Technical Name : SODIUM NITROPRUSSIDE

15. REGULATORY INFORMATION

Labeling according to EC Directives

Symbol : T Toxic

R-phrases : 25 Toxic if swallowed.

S-phrases : 22-37-45 Do not breathe dust. Wear suitable gloves. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Water pollution class : 2 (polluting substance) (own classification)

16. OTHER INFORMATION

Reason for alteration :

Change in transport classification
General update.

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.