



# SAFETY DATA SHEET

## 1. Identification of the preparation and of the company

Catalogue No.: S 25025  
Product Name: **SODIUM THIOCYANATE 98%**

### *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 : 540-72-7 EC –No. 208-754-4  
Molar mass : 81.07 g/mol Molecular formula : NaSCN

3. **Hazards Identification** : Harmful by inhalation, in contact with skin and if swallowed.  
Contact with acids liberates very toxic gas.

## 4. First Aid Measures

After inhalation : Fresh air. If necessary, apply mouth-to-mouth resuscitation or mechanical ventilation. Call in physician.

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

After eye contact : Rinse out with plenty of water with the eye lid held wide open. Call in ophthalmologist if necessary.

After swallowing : Make victim drink plenty of water, induce vomiting. Immediately call in physician.

## 5. Fire – fighting measures

Suitable extinguishing media : water, foam.

Special risks : Non-combustible. Ambient fire may liberate hazardous vapours. The following may develop in event of fire : Hydrogen cyanide, sulphur oxides, Nitrogen oxides.

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.

Person-related precautionary measures : Avoid substance contact. Avoid generation of dusts; do not inhale dusts. Ensure supply of fresh air in enclosed rooms.

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. Protected from light. 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 dust are generated.

Eye protection : required

Hand protection : required

Industrial hygiene : Change contaminated clothing. Apply skin-protective barrier cream.  
Wash hands after working with substance.

## 9. Physical and chemical properties

Form : solid  
Colour : white  
Odour : odourless  
PH value at 100 g/l H<sub>2</sub>O (20<sup>0</sup>C): 6 - 8  
Melting temperature : 310 <sup>0</sup>C  
Boiling temperature : Not available (decomposition)  
Ignition temperature : Not combustible  
Flash point : Not flammable  
Explosion limits Lower : Not applicable  
Upper : Not applicable  
Vapour pressure (20<sup>0</sup>C) : < 1 hPa  
Density (20<sup>0</sup>C) : 1.74 g/cm<sup>3</sup>  
Bulk density : ~ 800 - 1000 Kg/m<sup>3</sup>  
Solubility in water(20<sup>0</sup>C) : 1250 g/l  
Thermal decomposition : > 368 <sup>0</sup>C

## 10. Stability and reactivity

Conditions to be avoided : Strong heating.

Substance to be avoided : Acids, nitrites, strong oxidizing agents.

Hazardous decomposition products : In the event of fire : see chapter 5.

Further information : Hygroscopic, light-sensitive (decomposition)



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### 11. **Toxicological Information:**

Acute toxicity : LD<sub>50</sub> (oral, rat) : 764 mg/kg. LDLo(oral, human) : 50 mg/kg  
Specific symptoms in animal studies : Eye irritation test (rabbit) : No irritation. Skin irritation test (rabbit) : No irritation.

Sub acute to chronic toxicity : Sensitization : sensitization test (guinea pig) : Positive.  
Experience in man : may cause sensitization.  
Bacterial mutagenicity : Ames test : Negative.

Further toxicological information :

After inhalation : Irritations of the mucous membranes, coughing and dyspnoea.

After swallowing : Nausea, vomiting, diarrhoea.

After uptake of large quantities : CNS disorders, agitation, spasms, restlessness, drop in blood pressure, confusion, coma. Causes impaired function of : thyroid.

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

### 12. **Ecological Information:**

Biologic degradation : Biodegradable.

Behavior in environmental compartments : passage from aqueous solution into the atmosphere is not to be expected.

Ecotoxic effects : Biological effects : Fish toxicity : P.promelas LC<sub>50</sub> : > 100 mg/l/96h.

Daphnia toxicity : Daphnia magna EC<sub>0</sub> : 11 mg/l/48h. algal toxicity : Selenastrum capricomutum IC<sub>0</sub> : >100mg/l. Bacterial toxicity : Ps.putida EC<sub>10</sub> : 8000 mg/l.

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

### 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** : No subject to transport regulations.



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### 15. **Regulatory Information**

*Labelling according to EC Directives*

Symbol : Xn Harmful

R-phrases: 20/21/22-32 Harmful by inhalation, in contact with skin and if swallowed. Contact with acids liberates very toxic gas.

S-phrases : 13 Keep away from food, drink and animal feeding stuffs.

EC No. : 208-754-4 EC label

### 16. **Other information**

Chapter 5 : fire-fighting measures.

Chapter 9 : change/addition in physical/chemical properties.

Chapter 10 : stability and reactivity

Chapter 11: toxicological information

Chapter 12 : ecological information.

Chapter 1 : change in product name.

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.