

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

|                    |   |
|--------------------|---|
| Product form       | : Substance   |
| Trade name         | : SODIUM THIOCYANATE EXTRA PURE                                 |
| EC Index-No.       | : 615-030-00-5  |
| EC-No.             | : 208-754-4   |
| CAS-No.            | : 540-72-7  |
| Product code       | : 06040   |
| Formula            | : NaSCN   |
| Chemical structure | : $\text{Na}^+ \text{ } ^-\text{S}-\text{C}\equiv\text{N}$      |
| Synonyms           | : Sodium rhodanide, Sodium isothiocyanate, Sodium sulphocyanate |

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1. Relevant identified uses

Use of the substance/mixture : Laboratory chemicals, Manufacture of substances

#### 1.2.2. Uses advised against

No additional information available

### 1.3. Details of the supplier of the safety data sheet

LOBA CHEMIE PVT.LTD.  
107 Wode House Road, Jehangir Villa, Colaba  
400005 Mumbai  
INDIA  
T +91 22 6663 6663, F +91 22 6663 6699  
[info@lobachemie.com](mailto:info@lobachemie.com), [www.lobachemie.com](http://www.lobachemie.com)

### 1.4. Emergency telephone number

Emergency number : + 91 22 6663 6663 (9:00am - 6:00 pm)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

|   |      |
|---|------|
| Acute toxicity (oral), Category 4                                 | H302 |
| Acute toxicity (dermal), Category 4                               | H312 |
| Acute toxicity (inhal.), Category 4                               | H332 |
| Hazardous to the aquatic environment – Chronic Hazard, Category 3 | H412 |

Full text of H- and EUH-statements: see section 16

#### Adverse physicochemical, human health and environmental effects

Harmful in contact with skin. Harmful if inhaled. Harmful if swallowed. Harmful to aquatic life with long lasting effects.

### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS07

Signal word (CLP) : Warning

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|                                |  |
|--------------------------------|--|
| Hazard statements (CLP)        | : H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled.<br>H412 - Harmful to aquatic life with long lasting effects.  |
| Precautionary statements (CLP) | : P273 - Avoid release to the environment.<br>P280 - Wear protective clothing, eye protection, face protection, protective gloves.<br>P301+P312 - IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.<br>P302+P352 - IF ON SKIN: Wash with plenty of water.<br>P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. |

### Nordic countries regulation

#### Denmark

MAL code : 00-3 (Executive Order No. 301 from 1993)

### 2.3. Other hazards

Contains no PBT and/or vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

|                |                      |
|----------------|----------------------|
| Substance type | : Mono-constituent   |
| Name           | : SODIUM THIOCYANATE |
| CAS-No.        | : 540-72-7           |
| EC-No.         | : 208-754-4          |
| EC Index-No.   | : 615-030-00-5       |

| Name               | Product identifier   | %   |
|--------------------|--|-----|
| SODIUM THIOCYANATE | CAS-No.: 540-72-7<br>EC-No.: 208-754-4<br>EC Index-No.: 615-030-00-5 | 100 |

### 3.2. Mixtures

Not applicable

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                                       |  |
|---------------------------------------|--|
| First-aid measures general            | : Call a poison center or a doctor if you feel unwell.   |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary. If you feel unwell, seek medical advice. Call a poison center or a doctor if you feel unwell. |
| First-aid measures after skin contact | : Gently wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash skin with plenty of water. Take off contaminated clothing.  |
| First-aid measures after eye contact  | : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention.                                   |
| First-aid measures after ingestion    | : Rinse mouth. Call a POISON CENTER/doctor if you feel unwell. Call a poison center or a doctor if you feel unwell.  |

### 4.2. Most important symptoms and effects, both acute and delayed

|                                     |   |
|-------------------------------------|---|
| Symptoms/effects after inhalation   | : Dust of the product, if present, may cause respiratory irritation after an excessive inhalation exposure. Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard. |
| Symptoms/effects after skin contact | : Repeated exposure to this material can result in absorption through skin causing significant health hazard. Harmful in contact with skin.   |
| Symptoms/effects after eye contact  | : None under normal conditions. Dust from this product may cause eye irritation.  |
| Symptoms/effects after ingestion    | : Harmful if swallowed.   |

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### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

- Suitable extinguishing media : dry chemical powder, alcohol-resistant foam, carbon dioxide (CO<sub>2</sub>). Water spray. Dry powder. Foam.
- Unsuitable extinguishing media : Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

- Fire hazard : No fire hazard.
- Explosion hazard : No direct explosion hazard.
- Hazardous decomposition products in case of fire : Toxic fumes may be released.

### 5.3. Advice for firefighters

- Firefighting instructions : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.
- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.

#### 6.1.1. For non-emergency personnel

- Protective equipment : Wear recommended personal protective equipment.
- Emergency procedures : Ventilate spillage area. Evacuate unnecessary personnel. Avoid contact with skin, eyes and clothing. Avoid breathing dust/fume/gas/mist/vapours/spray.

#### 6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. Use personal protective equipment as required. For further information refer to section 8: "Exposure controls/personal protection".
- Emergency procedures : Stop release. Evacuate unnecessary personnel.

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

- For containment : Using a clean shovel, put the material in a dry container and cover without compressing it.
- Methods for cleaning up : Mechanically recover the product. Clear up rapidly by scoop or vacuum.
- Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.
- Precautions for safe handling : Do not get in eyes, on skin, or on clothing. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapours/spray.

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Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands, forearms and face thoroughly after handling. Wash contaminated clothing before reuse. Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Keep in a cool, well-ventilated place away from heat.  
Storage conditions : Store in original container. Keep container tightly closed. Store in a dry place. Protect from moisture.  
Packaging materials : Store always product in container of same material as original container.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

No additional information available

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

No additional information available

#### 8.1.5. Control banding

No additional information available

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

##### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### 8.2.2. Personal protection equipment

##### Personal protective equipment:

Wear recommended personal protective equipment.

##### Personal protective equipment symbol(s):



##### 8.2.2.1. Eye and face protection

###### Eye protection:

Chemical goggles or safety glasses

##### 8.2.2.2. Skin protection

###### Skin and body protection:

Wear a mask

###### Hand protection:

Protective gloves

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### 8.2.2.3. Respiratory protection

#### Respiratory protection:

Wear appropriate mask

### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

#### Environmental exposure controls:

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|   |  |
|---|--|
| Physical state                                  | : Solid  |
| Colour  | : White.   |
| Appearance                                      | : Crystalline powder.                                |
| Molecular mass                                  | : 81.07 g/mol  |
| Odour   | : odourless.   |
| Odour threshold                                 | : Not available                                      |
| Melting point                                   | : 287 °C   |
| Freezing point                                  | : Not applicable                                     |
| Boiling point                                   | : 307 °C (decomposes)                                |
| Flammability                                    | : Non flammable.                                     |
| Lower explosion limit                           | : Not applicable                                     |
| Upper explosion limit                           | : Not applicable                                     |
| Flash point                                     | : Not applicable                                     |
| Auto-ignition temperature                       | : Not applicable                                     |
| Decomposition temperature                       | : 368 °C   |
| pH  | : 5.5 – 7.5  |
| pH solution concentration                       | : 5 %  |
| Viscosity, kinematic                            | : Not applicable                                     |
| Solubility                                      | : Water: 139 g/100ml - Soluble<br>Acetone: - Soluble |
| Partition coefficient n-octanol/water (Log Kow) | : Not available                                      |
| Vapour pressure                                 | : Not available                                      |
| Vapour pressure at 50°C                         | : Not available                                      |
| Density   | : 1.75 g/cm <sup>3</sup>                             |
| Relative density                                | : Not available                                      |
| Relative vapour density at 20°C                 | : Not applicable                                     |
| Particle size                                   | : Not available                                      |

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

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### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Direct sunlight. Air contact. Moisture.

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

|                                   |                                   |
|-----------------------------------|-----------------------------------|
| Acute toxicity (oral)             | : Harmful if swallowed.           |
| Acute toxicity (dermal)           | : Harmful in contact with skin.   |
| Acute toxicity (inhalation)       | : Harmful if inhaled.             |
| Skin corrosion/irritation         | : Not classified<br>pH: 5.5 – 7.5 |
| Serious eye damage/irritation     | : Not classified<br>pH: 5.5 – 7.5 |
| Respiratory or skin sensitisation | : Not classified                  |
| Germ cell mutagenicity            | : Not classified                  |
| Carcinogenicity                   | : Not classified                  |
| Reproductive toxicity             | : Not classified                  |
| STOT-single exposure              | : Not classified                  |
| STOT-repeated exposure            | : Not classified                  |
| Aspiration hazard                 | : Not classified                  |

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|                      |                |
|----------------------|----------------|
| Viscosity, kinematic | Not applicable |
|----------------------|----------------|

### 11.2. Information on other hazards

#### 11.2.1. Endocrine disrupting properties

No additional information available

#### 11.2.2. Other information

Potential adverse human health effects and symptoms : Harmful if swallowed, Harmful in contact with skin.

## SECTION 12: Ecological information

### 12.1. Toxicity

|   |  |
|---|--|
| Ecology - general   | : Harmful to aquatic life with long lasting effects. |
| Ecology - water   | : Harmful to aquatic life with long lasting effects. |
| Hazardous to the aquatic environment, short-term (acute)  | : Not classified                                     |
| Hazardous to the aquatic environment, long-term (chronic) | : Harmful to aquatic life with long lasting effects. |

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### 12.2. Persistence and degradability

#### SODIUM THIOCYANATE EXTRA PURE (540-72-7)

|                               |   |
|-------------------------------|---|
| Persistence and degradability | May cause long-term adverse effects in the environment. |
|-------------------------------|---|

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

|  |  |
|--|--|
| Regional waste regulation                  | : Disposal must be done according to official regulations.   |
| Waste treatment methods                    | : Dispose of contents/container in accordance with licensed collector's sorting instructions.  |
| Sewage disposal recommendations            | : Disposal must be done according to official regulations.   |
| Product/Packaging disposal recommendations | : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. Disposal must be done according to official regulations. |
| Additional information                     | : Do not re-use empty containers.  |

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

### 14.1. UN number or ID number

Not regulated for transport

### 14.2. UN proper shipping name

|                             |                 |
|-----------------------------|-----------------|
| Proper Shipping Name (ADR)  | : Not regulated |
| Proper Shipping Name (IMDG) | : Not regulated |
| Proper Shipping Name (IATA) | : Not regulated |
| Proper Shipping Name (ADN)  | : Not regulated |
| Proper Shipping Name (RID)  | : Not regulated |

### 14.3. Transport hazard class(es)

#### ADR

Transport hazard class(es) (ADR) : Not regulated

#### IMDG

Transport hazard class(es) (IMDG) : Not regulated

#### IATA

Transport hazard class(es) (IATA) : Not regulated

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### ADN

Transport hazard class(es) (ADN) : Not regulated

### RID

Transport hazard class(es) (RID) : Not regulated

### 14.4. Packing group

Packing group (ADR) : Not regulated

Packing group (IMDG) : Not regulated

Packing group (IATA) : Not regulated

Packing group (ADN) : Not regulated

Packing group (RID) : Not regulated

### 14.5. Environmental hazards

Other information : No supplementary information available

### 14.6. Special precautions for user

#### Overland transport

Not regulated

#### Transport by sea

Not regulated

#### Air transport

Not regulated

#### Inland waterway transport

Not regulated

#### Rail transport

Not regulated

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

##### REACH Annex XVII (Restriction List)

Not listed on REACH Annex XVII

##### REACH Annex XIV (Authorisation List)

Not listed on REACH Annex XIV (Authorisation List)

##### REACH Candidate List (SVHC)

Not listed on the REACH Candidate List

##### PIC Regulation (Prior Informed Consent)

Not listed on the PIC list (Regulation EU 649/2012)

##### POP Regulation (Persistent Organic Pollutants)

Not listed on the POP list (Regulation EU 2019/1021)

##### Ozone Regulation (1005/2009)

Not listed on the Ozone Depletion list (Regulation EU 1005/2009)

##### Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

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### Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

### 15.1.2. National regulations

#### Germany

Water hazard class (WGK) : WGK 1, Slightly hazardous to water (Classification according to AwSV; ID No. 1441).  
Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

#### Netherlands

SZW-lijst van kankerverwekkende stoffen : The substance is not listed  
SZW-lijst van mutagene stoffen : The substance is not listed  
SZW-lijst van reprotoxische stoffen – Borstvoeding : The substance is not listed  
SZW-lijst van reprotoxische stoffen –  
Vruchtbaarheid : The substance is not listed  
SZW-lijst van reprotoxische stoffen – Ontwikkeling : The substance is not listed

#### Denmark

MAL code : 00-3 (Executive Order No. 301 from 1993)  
Danish National Regulations : Young people below the age of 18 years are not allowed to use the product  
Pregnant/breastfeeding women working with the product must not be in direct contact with the product

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

| Abbreviations and acronyms: |   |
|-----------------------------|---|
| ADN                         | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR                         | European Agreement concerning the International Carriage of Dangerous Goods by Road             |
| ATE                         | Acute Toxicity Estimate   |
| BCF                         | Bioconcentration factor   |
| BLV                         | Biological limit value  |
| BOD                         | Biochemical oxygen demand (BOD)   |
| COD                         | Chemical oxygen demand (COD)  |
| DMEL                        | Derived Minimal Effect level  |
| DNEL                        | Derived-No Effect Level   |
| EC-No.                      | European Community number   |
| EC50                        | Median effective concentration  |
| EN                          | European Standard   |
| IARC                        | International Agency for Research on Cancer   |
| IATA                        | International Air Transport Association   |
| IMDG                        | International Maritime Dangerous Goods  |
| LC50                        | Median lethal concentration   |
| LD50                        | Median lethal dose  |
| LOAEL                       | Lowest Observed Adverse Effect Level  |

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### Abbreviations and acronyms:

|         |  |
|---------|--|
| NOAEC   | No-Observed Adverse Effect Concentration                                     |
| NOAEL   | No-Observed Adverse Effect Level   |
| NOEC    | No-Observed Effect Concentration   |
| OECD    | Organisation for Economic Co-operation and Development                       |
| OEL     | Occupational Exposure Limit  |
| PBT     | Persistent Bioaccumulative Toxic   |
| PNEC    | Predicted No-Effect Concentration  |
| RID     | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS     | Safety Data Sheet  |
| STP     | Sewage treatment plant   |
| ThOD    | Theoretical oxygen demand (ThOD)   |
| TLM     | Median Tolerance Limit   |
| VOC     | Volatile Organic Compounds   |
| CAS-No. | Chemical Abstract Service number   |
| N.O.S.  | Not Otherwise Specified  |
| vPvB    | Very Persistent and Very Bioaccumulative                                     |
| ED      | Endocrine disrupting properties  |

### Full text of H- and EUH-statements:

|                           |   |
|---------------------------|---|
| Acute Tox. 4 (Dermal)     | Acute toxicity (dermal), Category 4                               |
| Acute Tox. 4 (Inhalation) | Acute toxicity (inhal.), Category 4                               |
| Acute Tox. 4 (Oral)       | Acute toxicity (oral), Category 4                                 |
| Aquatic Chronic 3         | Hazardous to the aquatic environment – Chronic Hazard, Category 3 |
| H302                      | Harmful if swallowed.   |
| H312                      | Harmful in contact with skin.                                     |
| H332                      | Harmful if inhaled.   |
| H412                      | Harmful to aquatic life with long lasting effects.                |

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.