

## SAFETY DATA SHEET

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

#### 1.1 Product identifiers

Product name	Sodium Thiocyanate Crystal	
CAS number	540-72-7	
Synonyms	Sodium rhodanate; Sodium sulfocyanate; Thiocyanic acid sodium salt; Sodiumisothiocyanate	

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

Identified uses	Laboratory chemicals.
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#### **1.3** Details of the supplier of the safety data sheet

Company	Lab Alley, LLC 12501 Pauls Valley Road Austin, Texas 78737 U.S.A.
Telephone	512-668-9918
Fax	512-886-4008

## **1.4 Emergency telephone**

Emergency Phone #	US & Canada: 1-800-535-5053	INFOTRAC
	International 1-352-323-3500	INFOTRAC

#### **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

## GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute oral toxicity	Category 4
Acute dermal toxicity	Category 4
Acute inhalation toxicity - dusts and mists	Category 4
Specific target organ toxicity - (repeated exposure)	Category 2
Target organs - liver, blood, thyroid	

## 2.2 GHS Label elements, including precautionary statements

Pictogram	
Signal Word	Warning
Hazard statements	May cause damage to organs through prolonged or repeated exposure. Harmful if swallowed, in contact with skin, or inhaled.
Precautionary statements	Prevention: Do not breathe dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Wear gloves/protective clothing/eye protection/face protection. Do not eat, drink, or smoke when using this product. Wash face, hands, and any exposed skin thoroughly after handling.
	Response: Get medical attention/advice if you feel unwell.
	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
	IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before re-use.
	IF SWALLOWED: Rinse mouth. Call a POISON CENTER or doctor if you feel unwell.
	Storage: Store in a well-ventilated place. Keep container tightly closed. Store locked up.
	Disposal: Dispose of contents/container to an approved waste disposal plant.

## 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Contact with acids liberates very toxic gas. Harmful to aquatic life with long lasting effects.

## **SECTION 3: Composition/information on ingredients**

### 3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
Sodium thiocyanate	Sodium rhodanate; Sodium sulfocyanate; Thiocyanic acid sodium salt; Sodiumisothiocyanate	540-72-7	> 95%

## 4.1 Description of first-aid measures

General advice	
lf inhaled	Remove to fresh air. If breathing is difficult, give oxygen. Do not use mouth- to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required.
In case of skin contact	Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.
In case of eye contact	Rinse immediately with plenty of water, including under eyelids, for at least 15 minutes. Immediate medical attention is required.
If swallowed	Do NOT induce vomiting. Call a physician or poison control center immediately.

- **4.2 Most important symptoms and effects, both acute and delayed** Itching, rashes, hives, coughing and/or wheezing, difficulty in breathing.
- **4.3 Indication of any immediate medical attention and special treatment needed** May cause sensitization in susceptible persons. Treat symptomatically.

## **SECTION 5: Firefighting measures**

5.1		
	Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. CAUTION: Use of water spray when fighting large fire may be inefficient.
	Unsuitable extinguishing media	Do not scatter spilled material with high-pressure water streams.

#### 5.2 Specific hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition. Hazardous Combustion Products: Nitrogen oxides (NOx), Sulfur oxides.

#### 5.3 Special protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### 5.4 Further information

Flash Point	No information available.

Autoignition Temperature No information available.

#### **Explosion limits**

Upper	No data available.
Lower	No data available.

Sensitivity to Mechanical Impact

Sensitivity to Static Discharge

No information available. No information available.

#### NFPA

Health	Flammability	Instability	Physical hazards
2	1	1	N/A

#### **SECTION 6: Accidental release measures**

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

Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust formation. Do not get in eyes, on skin, or on clothing.

#### 6.2 Environmental precautions

Should not be released into the environment. Do not flush into surface water or sanitary sewer system.

#### 6.3 Methods and materials for containment and cleaning up

Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

#### 6.4 Reference to other sections

See section 2 for full list of hazard and precaution statements.

#### **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

#### Precautions on safe handling

Use only under a chemical fume hood. Wear personal protective equipment/face protection. Avoid dust formation. Do not breathe (dust, vapor, mist, gas). Do not get in eyes, on skin, or on clothing. Do not ingest. If swallowed, seek immediate medical attention. Keep away from acids.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

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

#### **Storage conditions**

Keep containers tightly closed in a dry, cool, and well-ventilated place. Protect from light. Keep away from acids and other incompatible materials.

#### Incompatibilities

Strong oxidizing agents, acids, strong bases.

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Occupational exposure limits

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Component	Туре	Value	
Sodium thiocyanate	PEL - TWA (Vacated)	5 mg/m3	

#### US. NIOSH: Pocket Guide to Chemical Hazards

Component	Туре	Value
Sodium thiocyanate	IDLH	25 mg/m3

#### **Biological occupational exposure limits**

No information available.

#### 8.2 Exposure controls

#### Appropriate engineering controls

Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location.

#### Personal protective equipment

#### **Eye/face protection**

Wear appropriate protective eyeglasses or chemical safety goggles, as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN 166.

#### Skin protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

#### **Body Protection**

Wear appropriate protective gloves and clothing to prevent skin exposure.

#### **Respiratory protection**

No protective equipment is needed under normal use conditions.

Control of environmental exposure

No information available.

## **SECTION 9: Physical and chemical properties**

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

Physical State	Solid
Appearance	White
Odor	Odorless
Odor Threshold	No information available
pH	5.5 - 7.5 5% aq.sol. 20°C
Melting Point/Range	287°C / 548.6°F
Boiling Point/Range	No information available
Evaporation Rate	Not applicable
Flammability (solid)	No information available
Flammability or explosive limit Upper	No information available
Vapor Pressure Vapor Density Density Solubility Partition coefficient; n-octanol/water	No information available Not applicable No information available Soluble in water No data available
Autoignition Temp	No information available
Decomposition Temp	No information available
Viscosity	Not applicable
Molecular Formula	NaSCN
Molecular Weight	81.07 g/mol
VOC Content(%)	No information available
Oxidizing properties	No information available

#### Other safety information 9.2

No information available.

## **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

None known, based on information available.

# **10.2 Chemical stability** Hygroscopic, light sensitive.

#### 10.3 Possibility of hazardous reactions

Contact with acids liberates very toxic gas.

#### **10.4** Conditions to avoid

Dust formation, incompatible products, excess heat, exposure to light, exposure to moist air or water.

#### **10.5 Incompatible materials** Strong oxidizing agents, acids, strong bases.

**10.6 Hazardous decomposition products** Nitrogen oxides (NOx), Sulfur oxides.

#### **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

#### **Product Information, Component Information**

#### Acute toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium thiocyanate	LD50 = 764 mg/kg (Rat)	-	-

#### Skin corrosion/irritation

No information available.

#### Serious eye damage/eye irritation

No information available.

#### Respiratory or skin sensitization

May cause sensitization by skin contact.

#### Germ cell mutagenicity

No information available.

#### Carcinogenicity

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Sodium thiocyanate	540-72-7	Not listed				

#### Specific target organ toxicity - single exposure

None known.

# **Specific target organ toxicity - repeated exposure** Liver, blood, thyroid.

#### **Reproductive toxicity**

No information available.

#### **Chronic effects**

No information available.

#### 11.2 Additional Information

The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

### **SECTION 12: Ecological information**

#### 12.1 Toxicity

Harmful to aquatic organisms; may cause long-term adverse effects in the aquatic environment.

- **12.2 Persistence and degradability** Soluble in water. Persistence is unlikely based on information available.
- 12.3 Bio accumulative potential

No information available.

12.4 Mobility in soil

Will likely be mobile in the environment due to its water solubility.

### **12.5 Results of PBT and vPvB assessment** No information available.

- **12.6 Endocrine disrupting properties** No information available.
- 12.7 Other adverse effects

No information available.

#### **SECTION 13: Disposal considerations**

#### 13.1 Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

#### **SECTION 14: Transport information**

**DOT (US)** Not regulated.

IMDG Not regulated.

#### **SECTION 15: Regulatory information**

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

> TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) Not applicable.

CERCLA Hazardous Substance List (40 CFR 302.4) Not applicable.

SARA 304 Emergency release notification Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) Not applicable.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous See Section 2 for more information.

SARA 313 (TRI reporting)

Listed, Sodium thiocyanate (CAS#: 540-72-7).

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Listed, Sodium thiocyanate (CAS#: 540-72-7).

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Not regulated.

Safe Drinking Water Act Not regulated.

#### FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Not listed.

US state regulations

US. Massachusetts RTK - Substance List

Not listed.

#### US. New Jersey Worker and Community Right-to-Know Act Not listed.

US. Pennsylvania Worker and Community Right-to-Know Law Not listed.

#### **California Proposition 65**

Not listed.

### **SECTION 16: Other information**

Issue date: 09/09/2024

## **SECTION 17: Disclaimer**

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.