



ISO 9001 Quality System Certified Organization

MANUFACTURER & EXPORTER OF LABORATORY CHEMICALS AND OILS

Address : H.No.712/3, sainagar, Palghar mumbai 401102

✉ sales@ultrapurelab.com / info@ultrapurelab.com

☎ / 📠 +91 7058322540 / +91 7378378726

🌐 www.ultrapurelab.com

MATERIAL SAFETY DATA SHEET (MSDS) SDS/MSDS

1. Identification

Product Name : **Sodium thiocyanate AR**

CAS No. 540-72-7

Synonyms

Recommended Use

Uses advised against

Sodium rhodanate; Sodium sulfocyanate; Thiocyanic acid sodium salt; Sodium isothiocyanate

Laboratory chemicals.

2. Hazard(s) identification

Classification

This chemical is considered hazardous according to [US] OSHA (29 CFR 1910.1200, 2024)

Acute oral toxicity

Acute dermal toxicity

Category 4

Category 4

Acute Inhalation Toxicity - Dusts and Mists

Specific target organ toxicity - (repeated exposure)

Target Organs - Liver, Blood, Thyroid.

Label Elements

Signal Word

Warning

Category 4

Category 2

Hazard Statements

May cause damage to organs through prolonged or repeated exposure

Harmful if swallowed, in contact with skin or if inhaled

Precautionary Statements

Prevention

Do not breathe dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Wear protective 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

Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing

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Skin

IF ON SKIN: Wash with plenty of soap and water

Take off contaminated clothing

Ingestion

Rinse mouth

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

Hazards not otherwise classified (HNOC)

Harmful to aquatic life with long lasting effects

Hazards classified under paragraph (d)(1)(ii) of 1910.1200

Hazards resulting from a reaction with other chemicals under normal conditions of use

Contact with acids liberates very toxic gas. Contact with acids liberates toxic gas.

Other hazards

Harmful to aquatic life with long lasting effects.

3. Composition/information on Ingredients

Component

Sodium thiocyanate

CAS No

Weight %

540-72-7

>95

4. First-aid measures

Eye Contact

Skin Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Immediate medical attention is required.

Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.

Inhalation

Ingestion

Most important symptoms and effects

Notes to Physician

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.

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Do NOT induce vomiting. Call a physician or poison control center immediately.

None reasonably foreseeable.

Treat symptomatically

5. Fire-fighting measures

Unsuitable Extinguishing Media

Flash Point

Method

Autoignition Temperature

Explosion Limits

Upper

Lower

No information available

No information available

No information available

No information available

No data available

No data available

Sensitivity to Mechanical Impact No information available

Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical

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.

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.

NFPA

Health

2

Flammability

1

Instability

1

Physical hazards

N/A

6. Accidental release measures

Personal Precautions





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Environmental Precautions

Methods for Containment and Clean

Up

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

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

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

7. Handling and Storage

Handling

Storage.

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 then seek immediate medical assistance. Keep away from acids.

Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from light. Keep away from acids. Incompatible Materials. Strong oxidizing agents. Acids. Strong bases.

8. Exposure controls / personal protection

Exposure Guidelines

Component

ACGIH TLV

OSHA PEL

Sodium thiocyanate

NIOSH

Mexico OEL (TWA)

(Vacated) TWA: 5 mg/m³

Legend

OSHA - Occupational Safety and Health Administration

NIOSH: NIOSH - National Institute for Occupational Safety and Health

Engineering Measures

IDLH: 25 mg/m³

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

Skin and body protection

Respiratory Protection

Recommended Filter type:

Hygiene Measures

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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 EN166.

Wear appropriate protective gloves and clothing to prevent skin exposure.

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Particulates filter conforming to EN 143.

Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Appearance

Physical State

Color

Odor

Odor Threshold

Property

Melting Point/Range

Softening Point

Boiling Point/Range

Flash Point

Flammability (liquid)

Flammability (solid,gas)

Explosion Limits

Autoignition Temperature

Decomposition Temperature

pH

Viscosity

Water Solubility

Solubility in other solvents

Solid

White

Odorless

No information available

Values

287 °C / 548.6 °F

No data available

No information available

No information available

Not applicable

No information available

No data available



UPLC
Ultra Pure-Lab Chem Industries



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No data available

No data available

5.5-7.5

Not applicable

1390 g/L (21°C)

No information available

Partition Coefficient (n-octanol/water)

Vapor Pressure

Density / Specific Gravity

Bulk Density

Vapor Density

No data available

> 1.0

No data available

Not applicable

Remarks

• Method

Method - No information available

Solid

5% aq.sol. 20°C

Solid

Solid

Particle characteristics

Other Information

Molecular Formula

Molecular Weight

Evaporation Rate

No data available

C N Na S

81.07

Not applicable - Solid

10. Stability and reactivity

Reactive Hazard

Stability

Conditions to Avoid

Incompatible Materials

No

Hygroscopic. Light sensitive.

Avoid dust formation. Incompatible products. Excess heat. Exposure to light. Exposure to moist air or water.

Strong oxidizing agents, Acids, Strong bases



UPLC
Ultra Pure-Lab Chem Industries



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Hazardous Decomposition Products Nitrogen oxides (NOx), Sulfur oxides
Hazardous Polymerization
Hazardous Reactions
Hazardous polymerization does not occur.
Contact with acids liberates very toxic gas.

11. Toxicological information

Information on expected route of exposure

Inhalation

Ingestion

Eyes

Skin

Toxicology data for the components

Harmful by inhalation. May cause pulmonary edema. May cause irritation of respiratory tract.

Harmful if swallowed. May cause central nervous system effects. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Avoid contact with eyes.

Harmful in contact with skin. May cause irritation. Avoid contact with skin.

Component

LD50 Oral

Sodium thiocyanate

LD50 = 764 mg/kg (Rat)

LD50 Dermal

LC50 Inhalation

Toxicologically Synergistic

Products

(b) skin corrosion/irritation;

(c) serious eye damage/irritation;

(d) respiratory or skin sensitization;

Respiratory

Skin

(e) germ cell mutagenicity;

(f) carcinogenicity;

No information available

No data available

No data available

No data available

No data available

No data available

The table below indicates whether each agency has listed any ingredient as a carcinogen



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Component

CAS No

IARC

NTP

Sodium thiocyanate

540-72-7

Not listed

ACGIH

OSHA

Mexico

Not listed

(g) reproductive toxicity;

(h) STOT-single exposure;

(i) STOT-repeated exposure;

Target Organs

(j) aspiration hazard;

Other Adverse Effects

No data available

No data available

No data available

No information available.

Not applicable

Solid

Not listed

Not listed

Not listed

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

Symptoms / effects,both acute and delayed

Other Adverse Effects

Endocrine Disrupting Properties

No information available.

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

This product does not contain any known or suspected endocrine disruptors.

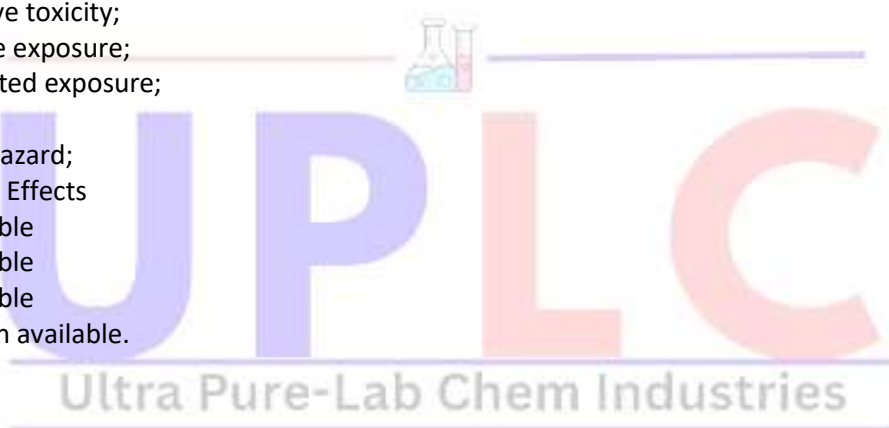
12. Ecological information

Ecotoxicity

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

Persistence and Degradability

Bioaccumulation/ Accumulation





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Mobility

Soluble in water Persistence is unlikely based on information available.

No information available.

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

13. Disposal considerations

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.

14. Transport information

DOT

TDG

IATA

IMDG/IMO

Not regulated

Not regulated

Not regulated

Not regulated

15. Regulatory Information

United States of America Inventory

Component

CAS No

TSCA

Sodium thiocyanate

540-72-7

X

TSCA Inventory notification

Active-Inactive

ACTIVE

TSCA - EPA Regulatory

Flags

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT)

TSCA 12(b) - Notices of Export

International Inventories

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Not applicable

Not applicable

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCs), Japan (ISHL),

Australia (AICS), China (IECSC), Korea

(KECL).

Component

CAS No

DSL

NDSL EINECS PICCS ENCS ISHL AICS IECSC KECL

Sodium thiocyanate

540-72-7

X

208-754-4

KECL - NIER number or KE number (<http://ncis.nier.go.kr/en/main.do>)

U.S. Federal Regulations

KE-31631

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Component

CAS No

Weight %

SARA 313 - Threshold

Values %

Sodium thiocyanate

540-72-7

SARA 311/312 Hazard Categories

>95

1.0 %

SARA 313 - Reporting

thresholds

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

Component

CWA - Hazardous

Substances

CWA - Reportable

Quantities

CWA - Toxic Pollutants CWA - Priority Pollutants

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Sodium thiocyanate

Clean Air Act

Component--

HAPS Data

Class 1 Ozone Depletors

Sodium thiocyanate

X

Class 2 Ozone Depletors

OSHA - Occupational Safety and

Health Administration

CERCLA

Not applicable

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive

Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and

Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

California Proposition 65

U.S. State Right-to-Know

Regulations

Component

This product does not contain any Proposition 65 chemicals.

Massachusetts

New Jersey

Pennsylvania

Illinois

Rhode Island

Sodium thiocyanate-X X X X

U.S. Department of Transportation

Reportable Quantity (RQ): N

DOT Marine Pollutant Y

DOT Severe Marine Pollutant N

U.S. Department of Homeland

Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Authorisation/Restrictions according to EU REACH Not applicable

Component CAS No REACH (1907/2006)

Annex XIV - Substances

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Subject to Authorization

REACH (1907/2006)

Annex XVII - Restrictions

on Certain Dangerous

Substances

REACH Regulation (EC

1907/2006) article 59

Candidate List of

Substances of Very High

Concern (SVHC)

Sodium thiocyanate 540-72-7--

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

Component CAS No OECD HPV Persistent Organic

Pollutant

Ozone Depletion

Potential

Restriction of

Hazardous

Substances (RoHS)

Sodium thiocyanate 540-72-7 Listed Not applicable Not applicable Not applicable

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)?

Not applicable

Other International Regulations

Component CAS No Seveso III Directive

(2012/18/EC)

Qualifying Quantities

for Major Accident

Notification

Seveso III Directive

(2012/18/EC)

Qualifying Quantities

for Safety Report

Requirements

Rotterdam

Convention (PIC)

Basel Convention

(Hazardous Waste)

Sodium thiocyanate 540-72-7 Not applicable Not applicable Not applicable Not applicable

16. Other Information

Prepared By Health, Safety and Environmental Department

Email: chem.techinfo@thermofisher.com

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 www.ultrapurelab.com

www.thermofisher.com

Creation Date 22-Dec-2009

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Revision Summary Updated to the U.S. Department of Labor's Occupational Safety and Health Administration

(OSHA) which published its Final Rule in the Federal Register revising the Hazard Communication Standard (HCS/HazCom), 29 CFR 1910.1200 (2024) (HCS §1910.1200, 2024), May 20, 2024, effective July 19, 2024.

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Disclaimer

Revision Date 21-Dec-2025

Sodium thiocyanate



The information provided in 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text

End of SDS

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