

SAFETY DATA SHEET (SDS)

Sodium Thiocyanate Pretreatment Reagent

Pub No.: M228
Rev.: 05/23/2016

SECTION 1: IDENTIFICATION

PRODUCT NAME: Sodium Thiocyanate Pretreatment Reagent
PART NO: 2030-00-x

MANUFACTURER: SciGene Corporation
1287 Reamwood Avenue
Sunnyvale, CA 94089 USA
(408) 733-7337

EMERGENCY PHONE: In case of poisoning, call your poison control center at 1-800-222-1222

SECTION 2: HAZARDS IDENTIFICATION

Classification in accordance with paragraph (d) of 29 CFR 1910.1200

Emergency Overview
OSHA Hazards

Target Organ Effect, Harmful by ingestion. Harmful by skin absorption.

Target Organs

Central nervous system, cardiovascular system, thyroid.

GHS Classification

Acute toxicity, Oral (Category 5)

Acute toxicity, Inhalation (Category 5)

GHS Label elements, including precautionary statements

Pictogram	none
Signal word	Warning
Hazard statement(s)	
H303 + H333	May be harmful if swallowed or if inhaled.
Precautionary statement(s)	none

Other hazards

Contact with acids liberates very toxic gas.

HMIS Classification

Health hazard:	0
Chronic health hazard	*
Flammability:	0
Physical hazards:	0

NFPA Rating

Health hazard:	1
Fire:	0
Reactivity Hazard:	0

Potential Health Effects

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Skin	Harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation.
Ingestion	Harmful if swallowed.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: Sodium thiocyanate solution
Sodium rhodanide solution
Additive Screening Solution 17/Fluka kit no 78374

Formula: CNNaS

Molecular Weight: 81.07 g/mol

Component	Classification	Concentration
Sodium thiocyanate		
CAS-No. 540-72-7 EC-No. 208-754-4 Index-No. 615-030-00-5	Acute Tox. 4; Aquatic Chronic 3; H302, H312, H332, H412	5 -15%

For the full text of the H-Statements and R-Phrases mentioned in this Section, see Section 16.

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SECTION 4: FIRST AID MEASURES

General advice: Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.
If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact: Wash off with soap and plenty of water. Consult a physician.
In case of eye contact: Flush eyes with water as a precaution.
If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

SECTION 5: FIRE-FIGHTING MEASURES

Conditions of flammability:
Not flammable or combustible.

Suitable extinguishing media:
Dry powder

Special protective equipment for firefighters:
Wear self contained breathing apparatus for firefighting if necessary.

Hazardous combustion products:
Hazardous decomposition products formed under fire conditions. - Carbon oxides, Sulphur oxides, Sodium oxides.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions
Wear respiratory protection. Avoid breathing vapors, mist or gas.

Environmental precautions
Do not let product enter drains.

Methods and materials for containment and cleaning up
Soak up with inert absorbent material and dispose of as hazardous waste. Do not flush with water. Keep in suitable, closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Conditions for safe storage
Keep container tightly closed in a dry and well-ventilated place. Never allow product to get in contact with water during storage. Do not store near acids.

Recommended storage temperature: room temperature

Light sensitive.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Eyes: Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Hands: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface to avoid skin contact with this product). Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Skin and body protection: Use impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the substance at the workplace.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form: Clear liquid
Color: Colorless

Safety Data

pH: no data available
Melting/freezing point: no data available
Boiling point: no data available
Flash point: no data available
Ignition temperature: no data available
Autoignition temperature: no data available
Lower explosion limit: no data available
Upper explosion limit: no data available
Vapor pressure no data available
Density: 1.078 g/cm³
Water Solubility: no data available
Partition coefficient: no data available
n-octanol water
Relative vapor density: no data available
Odor: no data available
Odor threshold: no data available
Evaporation rate: no data available

SECTION 10: STABILITY AND REACTIVITY

Chemical stability: Stable under recommended storage conditions.
Possibility of hazardous reactions: no data available
Conditions to avoid: Contact with acids liberates very toxic gas.
Materials to avoid: Strong oxidizing agents
Hazardous decomposition products: Hazardous decomposition products formed under fire conditions. Carbon oxides, Sulphur oxides, Sodium oxides. Other decomposition products – no data available.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity

Oral LD50
no data available

Inhalation LC50
no data available

Dermal LD50
no data available

Other information on acute toxicity
no data available

Skin corrosion/irritation
no data available

Serious eye damage/eye irritation
Eyes – no data available

Respiratory or skin sensitization
no data available

Germ cell mutagenicity
no data available

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Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a Carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

no data available

Teratogenicity

no data available

Specific target organ toxicity - single exposure (Globally Harmonized System)

no data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System)

no data available

Aspiration hazard

no data available

Potential health effects

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion: Harmful if swallowed.

Skin: Harmful if absorbed through skin. May cause skin irritation.

Eyes: May cause eye irritation.

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

Synergistic effects

no data available

Additional Information

RTECS: Not available

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

no data available

Persistence and degradability

no data available

Bioaccumulative potential

no data available

Mobility in soil

no data available

PBT and vPvB assessment

no data available

Other adverse effects

no data available

SECTION 13: DISPOSAL CONSIDERATIONS

Product

Offer surplus and non-recyclable solutions to a licensed disposal company

Contaminated Packaging

Dispose of as unused product

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SECTION 14: TRANSPORT INFORMATION**DOT (US)**

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

SECTION 15: REGULATORY INFORMATION**OSHA Hazards**

Target Organ Effect. Harmful by ingestion. Harmful by skin absorption.

SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

Water	CAS-No. 7732-18-5
Sodium thiocyanate	CAS-No. 540-72-7

Revision Date

New Jersey Right To Know Components

Water	CAS-No. 7732-18-5
Sodium thiocyanate	CAS-No. 540-72-7

Revision Date

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16: OTHER INFORMATION**Text of H-code(s) and R-phrases mentioned in Section 3**

Acute Tox.	Acute toxicity
Aquatic Chronic	Chronic aquatic toxicity
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H412	Harmful to aquatic life with long lasting effects.

Notice to reader

DISCLAIMER: This Safety Data Sheet is offered without charge to the clients of SciGene. Data is the most current available to SciGene at the time of preparation and is issued as a matter of information only, no warranty as to its accuracy or completeness is expressed or implied. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. SciGene and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.