

Safety Data Sheet

1. IDENTIFICATION

Product Name:	SODIUM THIOCYANATE
Other Names:	-
Recommended Use:	Laboratory chemicals, Manufacture of substances
Supplier:	Global Chemie ASCC Limited
Street Address:	88/123 Moo 2 Bangpoo Industrial Estate (North), Phraek Sa Mai, Mueang Samutprakan, Samutprakan 10280
Telephone:	+66 2324 6888
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Emergency phone:	+66 2324 6888 ext.320

2. HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

This product is not classified as hazardous under GHS criteria

Classification according to Regulation (EC) No 1272/2008

Acute toxicity, Inhalation Category 4

Acute toxicity, Dermal Category 4

Acute toxicity, Oral Category 4

Chronic aquatic toxicity Category 3

Other Hazards

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Harmful by inhalation, in contact with skin and if swallowed. Contact with acids liberates very toxic gas.

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

Hazardous Nature

No data available.

Hazardous Classification

No data available.

Hazardous Statement

No data available.

GHS Pictograms



Hazard Statements

Classification according to Regulation (EC) No 1272/2008

H302: Harmful if swallowed.

H312: Harmful in contact with skin.

H332: Harmful if inhaled.

H412: Harmful to aquatic life with long lasting effects.

According to European Directive 67/548/EEC as amended.

R-phrases)

R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.

R32: Contact with acids liberates very toxic gas.

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases)

S13: Keep away from food, drink and animal feeding stuffs.

S36/37: Wear suitable protective clothing and gloves.

S46: If swallowed, seek medical advice immediately and show this container or label.

S61: Avoid release to the environment. Refer to special instructions/ Safety data sheets.

Precautionary Statements

P273: Avoid release to the environment.

P280: Wear protective gloves/ protective clothing.

Response Statements

If on skin

No data available.

If inhaled

No data available.

If in eye

No data available.

Storage Statements

No data available.

Disposal Statements

No data available.

Signal Word: Warning

3. COMPOSITION: Information on Ingredients

Chemical Ingredient	CAS No.	UN No.	Proportion (%w/w)
Sodium thiocyanate	540-72-7	-	100

Molecular Formula: NaSCN

Molecular weight: 81.07 g/mol

4. FIRST AID MEASURES

For advice, contact Ramathibodi Poison Center (Phone: 1367) or a doctor.

Ingestion

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Eye Contact

Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.

Skin Contact

Wash off with soap and plenty of water. Consult a physician.

Serious Skin Contact

Flush eyes with water as a precaution.

Inhalation

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Most important symptoms and effects, both acute and delayed

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

Indication of any immediate medical attention and special treatment needed

No data available.

5. FIRE FIGHTING MEASURES**Suitable extinguishing media**

Dry powder.

Special hazards arising from the substance or mixture

Carbon oxides, Sulphur oxides, Sodium oxides.

Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Further information

No data available.

6. ACCIDENTAL RELEASE MEASURES.**Personal precautions, protective equipment and emergency procedures**

Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid breathing dust.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Do not flush with water. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE**Precautions for safe handling**

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

Conditions for safe storage

Store in cool place. 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. Light sensitive. Hygroscopic

Specific end uses

No data available.

8. EXPOSURE CONTROLS: PERSONAL PROTECTION**Control parameters**

Components with workplace control parameters

Exposure controls

Appropriate engineering controls Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

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. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) 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).

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Unit of Measurement	Typical Value
Appearance	-	Solid
Odour	-	odorless
pH	-	No data available
Boiling point	°C	No data available
Melting point	°C	287
Flash point	°C	No data available
Flammability	-	No data available
Autoignition Temperature	°C	No data available
Decomposition Temperature	°C	No data available
Lower/Upper Flammability Limits	%V	No data available
Density @ 25°C	g/cm ³	No data available
Specific Gravity @ 20°C	-	No data available
Viscosity @ 20°C	cSt	No data available
Vapor pressure @ 25°C	-	No data available
Vapor density	kPa (Air = 1)	No data available
Evaporation Rate	(n-Butyl acetate = 1)	No data available

Property	Unit of Measurement	Typical Value
Water Solubility @ 25°C	-	No data available
Solubility in other solvents Partition coefficient	(n-octanol/water)	No data available
Coefficient of Thermal Expansion	per Deg C	No data available
Color	-	No data available
Dispersion Properties	-	No data available
Particle Characteristics	-	No data available

The values listed are indicative of this product’s physical and chemical properties. For a full product specification, please consult the Product Data Sheet.

10. STABILITY AND REACTIVITY

Reactivity
No data available.

Chemical stability
No data available.

Possibility of hazardous reactions
No data available.

Conditions to avoid
Avoid moisture.

Incompatible materials
acids, Strong bases, Strong oxidizing agents.

Hazardous decomposition products
Other decomposition products - no data available.

11. TOXICOLOGICAL INFORMATION

Toxicity Values:
Acute toxicity
LD50 Oral - rat - 764 mg/kg
Remarks: Behavioral: Convulsions or effect on seizure threshold. Lungs, Thorax, or Respiration: Dyspnea.

Skin corrosion/irritation
No data available.

Serious eye damage/eye irritation
No data available.

Respiratory or skin sensitization
No data available.

Germ cell mutagenicity
No data available.

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.

Reproductive toxicity
No data available.

Specific target organ toxicity - single exposure

No data available.

Specific target organ toxicity - repeated exposure

No data available.

Aspiration hazard

No data available.

Potential health effects

Inhalation : 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

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

Additional Information

RTECS: No data available

Further information

No data available.

12. ECOLOGICAL INFORMATION**Toxicity**

Toxicity to fish : LC50 - Oncorhynchus mykiss (rainbow trout) - 233 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 - Daphnia magna (Water flea) - 11 mg/l - 48 h

Persistence and degradability

No data available.

Bioaccumulative potential

No data available.

Mobility in soil

No data available.

Results of PBT and vPvB assessment

No data available.

Other adverse effects

Harmful to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONSDisposal Methods**Product & Contaminated packaging**

Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may be more stringent than regional or national requirements and must be complied.

14. TRANSPORT INFORMATION

Road and Rail Transport		Marine Transport		Air Transport	
UN. Number	Not Regulated	UN. Number	Not Regulated	UN. Number	Not Regulated
Class/Item	Not Regulated	Class/Item	Not Regulated	Class/Item	Not Regulated
Hazard Symbol	Not Regulated	Hazard Symbol	Not Regulated	Hazard Symbol	Not Regulated
Proper Shipping Name	Not Regulated	Proper Shipping Name	Not Regulated	Proper Shipping Name	Not Regulated
Packing Group	Not Regulated	Packing Group	Not Regulated	Packing Group	Not Regulated
		Marine Pollutant	Not Regulated		

15. REGULATORY INFORMATION

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

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

No data available.

Chemical Safety Assessment

No data available.

16. OTHER INFORMATION

National Fire Protection Association (USA) : No data available.

SDS Distribution : The information contained herein is based on our current knowledge of the underlying data and is intended to describe the product for the purpose of health, safety and environmental requirements only. No warranty of guarantee is expressed or implied regarding the accuracy of these data or the results to be obtained from the use of the product.

Prepared By : Quality Control Department / Global Chemie ASCC Limited

Abbreviations:

No data available

References:

- Supplier Material Safety Data Sheets

The information sourced for the preparation of this document was correct and complete at the time of writing to the best of the writer’s knowledge. The document represents the commitment to the company’s responsibilities surrounding the supply of this product, undertaken in good faith. This document should be taken as a safety guide for the product and its recommended uses but is in no way an absolute authority. Please consult the relevant legislation and regulations governing the use and storage of this type of product. No warranty and guarantee are expressed or implied regarding the accuracy of these data or the results to be obtained from the use of the product for further information, please contact Global Chemie ASCC Limited.