

HazTech Systems, Inc. SAFETY DATA SHEET

Revision number: 2 **Revision date:** 06/24/2015

1. IDENTIFICATION

Product name: Product code: Synonyms: CAS: RTECS # CI#: Recommended use: Uses advised against:

Company:

HazTech Systems, Inc. 3919 Bootjack Lane Mariposa, CA 95338 U.S.A. Telephone: 1-800-543-5487 / 1-209-966-8088 Fax: 1-209-966-8089 e-mail: sales@hazcat.com www.hazcat.com

2. HAZARD(S) IDENTIFICATION

Classification of the substance or mixture GHS Classification in accordance with 29 CFR 1910 (OSHA HCS) Acute toxicity , Oral (Category 4), H302 Acute toxicity , Inhalation (Category 4), H332 Acute toxicity , Dermal (Category 4), H312 Eye irritation (Category 2A), H319 Acute aquatic toxicity (Category 3), H402 Chronic aquatic toxicity (Category 3), H412 For the full text of the H-Statements mentioned in this Section, see Section 16. GHS Label elements, including precautionary statements

Pictogram



Signal word	Warning
Hazard statement(s)	
H302 + H312 + H332	Harmful if swallowed, in contact with skin or if inhaled
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.
Precautionary statement(s)	· · · · · · · · · · · · · · · · · · ·
P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear eye protection/ face protection.
P280	Wear protective gloves/ protective clothing.
P301 + P312 + P330	IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you
	feel unwell. Rinse mouth.
P302 + P352 + P312	IF ON SKIN: Wash with plenty of soap and water. Call a POISON
	CENTER or doctor/ physician if you feel unwell.
	1 of 6

Sodium thiocyanate RE2317 Sodium rhodanide, Sodium isothiocyanate, Sodium rhodanate, Sodium sulfocyanate 540 -72 -7 Not available Not available Laboratory chemicals, Manufacture of substances No information available

Chemical Emergencies: HazTech Systems, Inc. (8:00am - 5:00pm) PST 1-800-543-5487 Transportation Emergencies: Chemtrec 24-Hour 1-800-424-9300 (U.S.A.) 1-703-527-3887 (International)

2. HAZARDS IDENTIFICA	TION
P304 + P340 + P312	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P363	Wash contaminated clothing before reuse.
P501	Dispose of contents/ container to an approved waste disposal plant.
Hazards not otherwise clas	sified (HNOC) or not covered by GHS

Contact with acids liberates very toxic gas.

Contact with actus increases very toxic gas.			
3. COMPOSITION/INFORMATION ON INGREDIENTS			
Substances			
Synonyms	:	Sodium rhodanide	
		Sodium isothiocyanate	
		Sodium rhodanate	
		Sodium sulfocyanate	
Formula	:	CNNaS	
Molecular weight	:	81.07 g/mol	
CAS -No.	:	540 - 72 - 7	
EC-No.	:	208 -754 -4	
Index -No.	:	615 -030 -00 -5	
Hazardous compon	ents		

Component	Classification	Concentration
Sodium thiocyanate		
	Acute Tox. 4; Eye Irrit. 2A;	<=100 %
	Aquatic Acute 3; Aquatic	
	Chronic 3; H302 + H312 +	
	H332, H 319, H412	

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

4. FIRST AID MEASURES

Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

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

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

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

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11 Indication of any immediate medical attention and special treatment needed

No data available

5. FIREFIGHTING MEASURES

Extinguishing media

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

Personal precautions, protective equipment and emergency procedures

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

Avoid breathing dust.

For personal protection see section 8.

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.

Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2.

Conditions for safe storage, including any incompatibilities

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.

Storage class (TRGS 510): Non Combustible Solids

Specific end use(s)

Apart from the uses mentioned in section 1 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

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.

Full contact

Material : Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time : 480 min

Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact

Material : Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time : 480 min

Mater ial tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method:

EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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).

Control of environmental exposure

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

9. PHYSICAL AND CHEMICAL PROPERTIES

ormation on basic physica	l and chemical properties
Appearance	Form : crystalline
11	Colour : colourless
Odour	odourless
Odour Threshold	No data available
pН	4.8 at 1,070 g/l at 20.1 °C (68.2 °F)
Melting point/freezing	Melting point/range : 287 °C (549 °F)
point	
Initial boiling point and	> 400 °C (> 752 °F) - OECD Test Guideline 103
boiling range	
Flash point	Not applicable
Evaporation rate	No data available
Flammability (solid, gas)	The product is not flammable Flammability (solids)
Upper/lower	No data available
flammability or	
explosive limits	
Vapour pressure	No data available
	No data available
	No data available
	1,000 g/l at 20 °C (68 °F) - OECD Test Guideline 105 - soluble
	No data available
Auto-ignition	No data available
temperature	
1	No data available
2	No data available
	Not explosive
Oxidizing properties	The product has been shown not to be oxidising in a test following Directive
.	67/548/EEC (Method A17, oxidising properties).
	Appearance Odour Odour Threshold pH Melting point/freezing point Initial boiling point and boiling range Flash point Evaporation rate Flammability (solid, gas) Upper/lower flammability or explosive limits Vapour pressure Vapour density Relative density Relative density Relative density Water solubility Partition coefficient: n- octanol/water Auto-ignition temperature Decomposition temperature Viscosity Explosive properties Oxidizing properties

Other safety information

data available	
STABILITY AND REACTIVITY	
activity	
data available emical stability	
ble under recommended storage conditions.	
ssibility of hazardous reactions	
data available nditions to avoid	
pid moisture.	
ompatible materials	
ls, Strong bases, Strong oxidizing agents	
zardous decomposition products	
ner decomposition products - No data available	
he event of fire: see section 5	

11. TOXICOLOGICAL INFORMATION Information on toxicological effects Acute toxicity LD50 Oral - Rat - 764 mg/kg Remarks : Behavioral:Convulsions or effect on seizure threshold. Lungs, Thorax, or Respiration:Dyspnea. Inhalation : No data available Dermal : No data available No data available Skin corrosion/irritation Skin - reconstructed human epidermis (RhE) Result : No skin irritation - 5 min (EPISKIN Human Skin Model Test) Serious eye damage/eye irritation No data available Respiratory or skin sensitisation in vivo assay - Mouse Result : Does not cause skin sensitisation. (OECD Test Guideline 429) Germ cell mutagenicity Mouse lymphocyte Result : negative 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. No component of this product present at levels greater than or equal to 0.1% is identified as a ACGIH: 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 ant icipated 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 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 **Additional Information** RTECS : Not available Nausea, Headache, Vomiting, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Stomach - Irregularities - Based on Human Evidence Stomach - Irregularities - Based on Human Evidence ECOLOGICAL INFORMATION 12. Toxicity

- 233 mg/l - 96 h Toxicity to fish LC50 - Oncorhynchus mykiss (rainbow trout) Toxicity to daphnia and EC50 - Daphnia magna (Water flea) - 11 mg/l - 48 h other aquatic invertebrates Persistence and degradability No data available **Bioaccumulative potential** No data available Mobility in soil No data available Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted Other adverse effects An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

12. ECOLOGICAL INFORMATION

Harmful to aquatic life with long lasting effects. No data available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

Not dangerous goods **IMDG**

Not dangerous goods

IATA

Not dangerous goods

15. REGULATORY INFORMATION

SARA 302 Components

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.

Massachusetts Right To Know Components

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

Pennsylvania Right To Know Components	CAS -No.	Revision Date
Sodium thiocyanate	540 - 72 - 7	
New Jersey Right To Know Components	CAS -No.	Revision Date
Sodium thiocyanate	540 -72 -7	
California Prop. 65 Components		

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.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox. Aquatic Acute Aquatic Chronic	Acute toxicity Acute aquatic toxicity Chronic aquatic toxicity
Eve Irrit.	Eye irritation
H302	Harmful if swallowed.
H302 + H312 +	Harmful if swallowed, in contact with skin or if inhaled
H332	
HMIS Rating	
Health hazard :	2
Chronic Health Hazard	: *
Flammability :	0
Physical Hazard	0
NFPA Rating	
Health hazard :	2
Fire Hazard :	0
Reactivity Hazard :	0
Revision Date:	06/24/2015
Prepared by:	HazTech Systems, Inc.

This information is based on HazTech Systems, Inc.'s, 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.