

SAFETY DATA SHEET

Creation Date 22-December-2009 Revision Date 24-January-2018 **Revision Number** 3 1. Identification **Product Name** Sodium thiocyanate AC419670000; AC419670025; AC419670050; AC419671000; Cat No. : AC419675000 CAS-No 540-72-7 Sodium rhodanate; Sodium sulfocyanate; Thiocyanic acid sodium salt; Sodium **Synonyms** isothiocyanate **Recommended Use** Laboratory chemicals. Not for food, drug, pesticide or biocidal product use Uses advised against Details of the supplier of the safety data sheet Company Manufacturer Importer/Distributor Acros Organics **Fisher Scientific Fisher Scientific** One Reagent Lane One Reagent Lane 112 Colonnade Road, Fair Lawn, NJ 07410 Fair Lawn, NJ 07410 Ottawa, ON K2E 7L6, Tel: (201) 796-7100 Canada Tel: 1-800-234-7437

Emergency Telephone Number

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe:** +32 14 57 52 99 **CHEMTREC** Tel. No.**US**:001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Category 4 Category 4 Category 4 Category 2

Category 1

Classification

WHMIS 2015 Classification

Classified as hazardous under the Hazardous Products Regulations (SOR/2015-17)

Acute oral toxicity
Acute dermal toxicity
Acute Inhalation Toxicity
Specific target organ toxicity - (repeated exposure)
Target Organs - Liver, Blood, Thyroid.
Health Hazards Not Otherwise Classified
Contact with acids liberates very toxic gas

Label Elements

Signal Word Danger

Hazard Statements

Harmful if swallowed, in contact with skin or if inhaled

May cause damage to organs through prolonged or repeated exposure Contact with acids liberates very toxic gas



Precautionary Statements Prevention

Take any precaution to avoid mixing with acids Do not breathe dust/fumes/gas/mist/vapours/spray Wear respiratory protection Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Use only outdoors or in a well-ventilated area Wear protective gloves/protective clothing/eye protection/face protection Response IF INHALED: Remove person to fresh air and keep comfortable for breathing Immediately call a POISON CENTER/doctor IF ON SKIN: Wash with plenty of soap and water Get medical advice/attention if you feel unwell Rinse mouth Take off contaminated clothing 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

Other Hazards

Harmful to aquatic life with long lasting effects Light sensitive

3. Composition/Information on Ingredients

Component	CAS-No	Weight %
Sodium thiocyanate	540-72-7	>95

4. First-aid measures				
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.			
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.			
Inhalation	Move 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.			
Ingestion	Do not induce vomiting. Call a physician or Poison Control Center immediately.			

Most important symptoms/effects	None reasonably foreseeable.
Notes to Physician	Treat symptomatically

5. Fire-fighting measures

Unsuitable Extinguishing Media No information avai	
Flash PointNo information avaiMethod -No information avai	

Autoignition Temperature

Explosion Limits	
Upper	No data available
Lower	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.

<u>NFPA</u> Health 2	Flammability 1	Instability 1	Physical hazards N/A	
	6. Accidental re	lease measures		
Personal Precautions Use personal protective equipment. Ensure adequate ventilation. Avoid dust formation. Do not get in eyes, on skin, or on clothing.				
Environmental Precautions	ntal Precautions Should not be released into the environment. Do not flush into surface water or sanitary sewer system.			
Methods for Containment and C Up	lean Sweep up or vacuum up sp formation.	billage and collect in suitable c	ontainer for disposal. Avoid dust	

	7. Handling and storage
Handling	Use only under a chemical fume hood. Wear personal protective equipment. Avoid dust formation. Do not breathe vapors/dust. Do not get in eyes, on skin, or on clothing. Do not ingest. Keep away from acids.
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from light. Keep away from acids.

8. Exposure controls / personal protection

Exposure Guidelines

Component	Alberta	British Columbia	Ontario TWAEV	Quebec	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium thiocyanate				Ceiling: 10 ppm Ceiling: 11 mg/m ³ Skin		(Vacated) TWA: 5 mg/m ³	IDLH: 25 mg/m ³

Legend

OSHA - Occupational Safety and Health Administration

NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

Engineering Measures

Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location. Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

Personal protective equipment

Eye 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 EN166.			
Hand Protection	Wear appropriate protective gloves and clothing to prevent skin exposure.			
Glove material	Breakthrough time	Glove thickness	Glove comments	
Natural rubber Nitrile rubber Neoprene PVC	See manufacturers recommendations	-	Splash protection only	

Inspect gloves before use. observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information) gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. gloves with care avoiding skin contamination.

Respiratory Protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. 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. To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained properly **Recommended Filter type:** Particulates filter conforming to EN 143

When RPE is used a face piece Fit Test should be conducted

Environmental exposure controls

Prevent product from entering drains.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Wash hands before breaks and at the end of workday.

9. Physical and chemical properties					
Physical State	Solid				
Appearance	White				
Odor	Odorless				
Odor Threshold	No information available				
рН	5.5-7.5 5% aq.sol. 20°C				
Melting Point/Range	287 °C / 548.6 °F				
Boiling Point/Range	No information available				
Flash Point	No information available				
Evaporation Rate	Not applicable				
Flammability (solid,gas)	No information available				
Flammability or explosive limits					
Upper	No data available				
Lower	No data available				
Vapor Pressure	No information available				
Vapor Density	Not applicable				

Specific Gravity Solubility Partition coefficient; n-octanol/water Autoignition Temperature Decomposition Temperature Viscosity Molecular Formula Molecular Weight > 1.0 Soluble in water No data available

No information available Not applicable C N Na S 81.07

10. Stability	' and	reactivity	
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Reactive Hazard	No
Stability	Hygroscopic. Light sensitive.
Conditions to Avoid	Avoid dust formation. Incompatible products. Excess heat. Exposure to light. Exposure to moist air or water.
Incompatible Materials	Strong oxidizing agents, Acids, Strong bases
Hazardous Decomposition Product	s Nitrogen oxides (NOx), Sulfur oxides
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	Contact with acids liberates very toxic gas.

11. Toxicological information

Acute Toxicity

Teratogenicity

Product Information

Component Informa Componer		LD50 Oral		LD50 Dermal	LC50	LC50 Inhalation			
Sodium thiocy			i4 mg/kg (Rat) Not listed		No	Not listed			
oxicologically Syr	nergistic	No information ava	No information available						
Products Delayed and immed	diate effects as	well as chronic effe	cts from short an	d long-term expo	sure				
rritation		No information ava	ilable						
Sensitization		No information ava	ilable						
Sensitization Carcinogenicity		No information ava		ach agency has lis	ed any ingredient	as a carcinog			
	CAS-No			ach agency has lis ACGIH	ed any ingredient	as a carcinogo Mexico			
Carcinogenicity	CAS-No 540-72-7	The table below in	dicates whether ea						
Carcinogenicity Component		The table below in	dicates whether ea NTP Not listed	ACGIH	OSHA	Mexico			
Carcinogenicity Component Sodium thiocyanate	540-72-7	The table below inc	dicates whether ea <u>NTP</u> Not listed iilable	ACGIH	OSHA	Mexico			

No information available.

STOT - single exposureNone knownSTOT - repeated exposureLiver Blood Thyroid

Aspiration hazard No information available

Symptoms / effects, both acute and No information available

delayed

Endocrine Disruptor Information No information available

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

12. Ecological information

Ecotoxicity

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

	10 Disconsiderations
Mobility	Will likely be mobile in the environment due to its water solubility.
Bioaccumulation/Accumulation	No information available.
Persistence and Degradability	Soluble in water Persistence is unlikely based on information available.

 Use 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		
TDG	Not regulated		
IATA	Not regulated		
IMDG/IMO	Not regulated		
15. Regulatory information			

International Inventories

Component	DSL	NDSL	TSCA	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Sodium thiocyanate	Х	-	Х	208-754-4	-		Х	Х	Х	Х	Х

Canada

SDS in compliance with provisions of information as set out in Canadian Standard - Part 4, Schedule 1 and 2 of the Hazardous Products Regulations (HPR) and meets the requirements of the HPR (Paragraph 13(1)(a) of the Hazardous Products Act (HPA)).

16. Other information				
Prepared By	Regulatory Affairs			
	Thermo Fisher Scientific			
	Email: EMSDS.RA@thermofisher.com			
Creation Date	22-December-2009			
Revision Date	24-January-2018			
Print Date	24-January-2018			
Revision Summary	This document has been updated to comply with the requirements of WHMIS 2015 to align with the Globally Harmonised System (GHS) for the Classification and Labelling of Chemicals.			

Disclaimer

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End of SDS