

3-Thiocyanatopropyltriethoxysilane Safety Data Sheet 8183113 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 09/19/2018 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: 3-Thiocyanatopropyltriethoxysilane
CAS No	: 34708-08-2
Product code	: 8183-1-13
Formula	: C10H21NO3SSi
Synonyms	: [3-(Cyanosulfanyl)propyl]triethoxysilane
Other means of identification	: MFCD00043235
.2. Relevant identified uses of the s	substance or mixture and uses advised against
Jse of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and development
.3. Details of the supplier of the saf	fety data sheet
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of Americ T (386) 462-0788 - F (386) 462-7097 <u>nfo@synquestlabs.com</u> - <u>www.synquestlabs</u>	
I.4. Emergency telephone number	
mergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identificati	ion
2.1. Classification of the substance of	or mixture
cute Tox. 4 (Oral) H302 - Harmful if swa Skin Irrit. 2 H315 - Causes skin ir	rritation
Acute Tox. 4 (Oral)H302 - Harmful if swaSkin Irrit. 2H315 - Causes skin inEye Irrit. 2AH319 - Causes seriouSTOT SE 3H335 - May cause res	rritation us eye irritation
Acute Tox. 4 (Oral)H302 - Harmful if swaSkin Irrit. 2H315 - Causes skin inEye Irrit. 2AH319 - Causes seriouSTOT SE 3H335 - May cause restFull text of H-phrases: see section 16	rritation us eye irritation
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Acute Tox. 4 (Oral) H302 - Harmful if swa Skin Irrit. 2 H315 - Causes skin ir Eye Irrit. 2A H319 - Causes seriou STOT SE 3 H335 - May cause rest Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling	rritation us eye irritation espiratory irritation
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- P337+P313 If eye irritation persists: Get medical advice/attention
- P362+P364 Take off contaminated clothing and wash it before reuse P403+P233 - Store in a well-ventilated place. Keep container tightly closed
- P405 Store locked up
- P501 Dispose of contents/container to an approved waste disposal plant

2.3. Other hazards

No additional information available

Unknown acute toxicity (GHS US) 2.4.

Not applicable

3-Theoryanatopropylinishoxysilane (Main constituent) (CAS No) 34708-08-2 <= 100 Acute Tox, 4 (CPR), H302 Skin Init, 2, H315 Eye Intt, 2A, H319 STOT SE 3, H335 Full text of H-phrases: see section 16	CTION 3: Composition/informa	ion on ingredients		
Name Product identifier % Classification (CHS4) 3-Thiosynamopropyliteithoxysilane (Mein constituent) (CAS No) 34708-08-2 K= 100 Acute Tox, 4 (Oral), H303 Eye Intil: 24, H315 Eye Intil: 24, H315 Full text of H-phrases: see section 16 3.2. Mixture Not applicable SECTION 4: First aid measures First-aid measures general : In case of accident or if you feel unwell, seek medical advice immediately (show the la where possible). Move the affected personnel away from the contaminated area. First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If not breathing, give <i>i</i> respiration. Get immediate medical advice/attention. First-aid measures after eye contact : Wash with plenty of soap and water. Get immediate medical advice/attention. First-aid measures after eye contact : DNOT induce vorniting. Never give anything by mouth to an unconscious person. Ri mouth out with water. Get immediate medical advice/attention. 4.2. Most important symptoms and effects, both acute and delayed Symptoms/injuries : The most important known symptoms and effects are described in the labelling (see so 2.2) and/or in section 11. 4.3. Indication of any immediate medical attention and special treatment needed Treat symptomsling media : Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing n appropriate for surrounding fre.				
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	ection during firefighting			
6.1. Personal precautions, protective equipment and emergency procedures				
General measures : Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe gas vapor or spray.	eral measures		nsure adequate air ver	ntilation. Do not breathe gas, fumes,

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6.1.1.	For non-emergency personnel		
Emergen	cy procedures	:	Only qualified personnel equipped with suitable protective equipment may intervene.
6.1.2.	For emergency responders		
Protective	e equipment		Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emergen	cy procedures		Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level.
6.2.	Environmental precautions		

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containme	ent and cleaning up
For containment	: Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.
Methods for cleaning up	: Take up large spills with pump or vacuum and finish with dry chemical absorbent. Use explosion-proof equipment. Take up small spills with dry chemical absorbent. Sweep or shovel spills into appropriate container for disposal. Ventilate area.
Other information	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".
6.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe fumes, mist, spray, vapors. Wear personal protective equipment. Avoid contact with skin and eyes.
Hygiene measures	: Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, including	ng any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use. Moisture sensitive. Keep contents under inert gas.
Incompatible materials	: Refer to Section 10 on Incompatible Materials.

: Store in dry, cool, well-ventilated area. Storage area

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls	
Appropriate engineering controls	: Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Hand protection	: Protective gloves. 29 CFR 1910.138: Hand Protection.
Eye protection	: Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection.
Other information	: Safety shoes. 29 CFR 1910.136: Foot Protection.

SECTION 9: Physical an	d chemical properties		
9.1. Information on basic	physical and chemical properties		
Physical state	: Liquid		
Color	: No data available		
Odor	: No data available		
Odor threshold	: No data available		
рН	: No data available		
Melting point	: No data available		
Freezing point	: No data available		
Boiling point	: 95 °C (@ 5 mm Hg)		
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Flash point	:	112 °C
Relative evaporation rate (butyl acetate=1)	:	No data available
Flammability (solid, gas)	:	No data available
Explosion limits	:	No data available
Explosive properties	:	No data available
Oxidizing properties	:	No data available
Vapor pressure	:	No data available
Relative density	:	No data available
Relative vapor density at 20 °C	:	No data available
Specific gravity / density	:	1.03 g/ml (@ 20 °C)
Molecular mass	:	263.429 g/mol
Solubility	:	No data available
Log Pow	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	No data available
9.2. Other information		

Refractive index

: 1.446 (@ 20 °C)

SECTION 10: Stability and reactivity
10.1. Reactivity
No additional information available
10.2. Chemical stability
The product is stable at normal handling and storage conditions.
10.3. Possibility of hazardous reactions
No additional information available
10.4. Conditions to avoid
Keep away from heat, sparks and flame. Moisture.
10.5. Incompatible materials
Strong oxidizing agents.
10.6. Hazardous decomposition products
Under normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of fire, see Section 5.
SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

: Oral: Harmful if swallowed.

3-Thiocyanatopropyltriethoxysilane (34708-	08-2)		
ATE US (oral)	500.000 mg/kg body weight	00.000 mg/kg body weight	
Skin corrosion/irritation	: Causes skin irritation.		
Serious eye damage/irritation	: Causes serious eye irritation.		
Respiratory or skin sensitization	: Not classified		
Germ cell mutagenicity	: Not classified		
Carcinogenicity	: Not classified		
Reproductive toxicity	: Not classified		
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.		
Specific target organ toxicity (repeated exposure)	: Not classified		
Aspiration hazard	: Not classified		
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SECTI	ON 12: Ecological information
12.1.	Toxicity
No addi	ional information available
12.2.	Persistence and degradability
No addi	ional information available
12.3.	Bioaccumulative potential
No addi	ional information available
12.4.	Mobility in soil
No addi	ional information available
12.5.	Other adverse effects
No addi	ional information available

SECTION 13: Disposal considera	tions
13.1. Waste treatment methods	
Waste treatment methods	: Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.
Waste disposal recommendations	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Additional information	: Recycle the material as far as possible.
SECTION 14: Transport informati	ion

Department of Transportation (DOT)

In accordance with DOT Not regulated for transport

TDG

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information		
15.1. US Federal regulations		
3-Thiocyanatopropyltriethoxysilane (34708-08-2)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
EPA TSCA Regulatory Flag	P - P - indicates a commenced PMN substance.	

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations
CANADA
3-Thiocyanatopropyltriethoxysilane (34708-08-2)
Listed on the Canadian NDSL (Non-Domestic Substances List)

EU-Regulations

No additional information available

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

National regulations

3-Thiocyanatopropyltriethoxysilane (34708-08-2)	
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in Chir	na)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)	
Listed on the TCSI (Taiwan Chemical Substance Inventory)	

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

SECTION 16: Other information

Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
NFPA fire hazard	medical attention is given. : 1 - Must be preheated before ignition can occur.
NFPA fire hazard NFPA reactivity	· 1 - Must be preheated before ignition can occur
	and are not reactive with water.
HMIS III Rating	
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flammability	: 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids,

: 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)

: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

SDS US (GHS HazCom 2012)

Physical

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 offered solely for your consideration, investigation, and verification. It does not represent any guarantee of the properties of the product nor that the hazard precautions or procedures described are the only ones which exist. SynQuest shall not be held liable or any damage resulting from handling or from contact with the above product.