

# Safety Data Sheet

Complies with EC no. 1907/2006

Issue Date:08/15/2018

## Section 1: Chemical Product and Company Identification

Page 1 of 3

Cat#: 25072

Part Name: Guanidine Isothiocyanate

Supplier: Polysciences, Inc.  
400 Valley Road  
Warrington, PA 18976 USA  
Company phone number 215-343-6484, 24-hour emergency phone number ChemTel 1-800-255-3924 Contract # MIS1592086

Identified uses: Laboratory use, manufacture of substances

## Section 2: Hazards Identification

Hazard Overview

Causes skin burns.

Causes skin, eye and respiratory tract irritation.

Harmful to fish and other water organisms.

GHS Classification

Skin Corrosion Category 1B

Skin Irritant Cat 4, Acute Inhalation Cat 4, Eye Irritation Cat 2B

Signal word: **Danger**



Hazard and Precautionary Statements

H314	Causes severe skin burns and eye damage.
H320 + H312 + H332	Irritating to eyes, harmful to respiratory system and skin.
H412	Harmful to aquatic life with long lasting effects.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P280A	Wear protective gloves
P301A	IF SWALLOWED do not induce vomiting. Do not give anything to drink. Obtain medical attention without delay.
P301D	IF SWALLOWED, induce vomiting as directed by medical personnel.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P305B	IF IN EYES, Separate eyelids with finger tips.
P340	Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P351	Rinse cautiously with water for several minutes.
P361	Remove/Take off immediately all contaminated clothing.
P501	Dispose of contents/container to proper waste area in accordance with institutional practices and local, state or federal regulations.

NFPA Rating

Hazard Ratings:

These ratings are Polysciences' Inc. own assessments of the properties of the material using the ANSI/NFPA 704 Standard. Additional information can be found by consulting in the NFPA published ratings lists (List 325 and List 49).

If no data is listed the information is not available.

Health	Flammability	Reactivity
2	0	1

## Section 3: Composition/ Information on Ingredients

Note: Items listed with a CASRN... number have no CAS# available.

Item#	Name	EINECS	CAS#	% in product
1	Thiocyanic acid, compd. with guanidine (1:1)	209-812-1	0000593-84-0	90 - 100

## Section 4: First Aid Measures

Flush eyes with flowing water for at least 15 minutes.

If breathing is difficult, contact emergency personnel.

If swallowed, induce vomiting as directed by medical personnel.

Remove contaminated clothing.

Remove to fresh air.

Separate eyelids with finger tips.

Wash skin with deluge of water for at least 15 minutes.

### Section 5: Fire Fighting Measures

Flash point, deg F.: no data

Method: no data

UEL: no data LEL: no data

Autoignition temperature, deg. F.: no data

Flammability Classification: no data

Flame Propagation Rate: no data

Hazardous Combustion Products: May emit toxic and flammable fumes of cyanide if involved in a fire

### Section 6: Accidental Release Measures

Any information listed below is to be considered in addition to internal guidelines for isolation of spill, containment of spill, removal of ignition sources from immediate area, and collection for disposal of spill by trained, properly protected clean up personnel.

Remove ignition sources.

Sweep up solids.

Use appropriate personal protective equipment.

### Section 7: Handling and Storage

Store at room temp

### Section 8: Exposure Controls/ Personal Protection

#### OSHA (ACGIH) Exposure Limits

	IDLH: NE	TWA		STEL		CEILING	
		ppm	mg/	ppm	mg/m3	ppm	mg/m3
Thiocyanic acid, compd. with guanidine (1:1)							
OSHA		NE	NE	NE	NE	NE	NE
ACGIH		NE	NE	NE	NE	NE	NE

The use of eye protection in the form of safety glasses with side shields and the use of skin protection for hands in the form of gloves are considered minimum and non-discretionary in work places and laboratories. Any recommended personal protection equipment or environmental equipment is to be considered as additional to safety glasses and gloves.

Use chemical splash goggles and face shield.

Use latex or equivalent gloves.

Chemical-resistant gloves should be worn whenever this material is handled. The glove material has to be impermeable and resistant to the product. Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough.

Rinse and remove gloves immediately after use. Wash hands with soap and water. All glove recommendations presume that the risk of exposure is through splash and not intentional immersion of the hands into the product.

Since glove permeation data does not exist for this material, no recommendation for the glove material can be given for the product.

Permeation data must be obtained from the glove manufacturer to determine if the glove is suitable for the task.

### Section 9: Physical and Chemical Properties

Formula: C2H6N4S

vapor pressure: no data

Formula Weight: 118.16 g/mol

vapor density: no data

boiling point: decomposes

Specific gravity: no data

melting point: 118C

ph: no data

solubility: soluble in water

appearance: white crystals

### Section 10: Stability and Reactivity

Chemical Stability stable under recommended storage conditions

Conditions to Avoid: heat, flames, ignition sources and contact with acids

Incompatibility with other materials: iron, oxidizing agents

Hazardous Decomposition Products: fumes of cyanide, oxides of carbon, oxides of sulfur, oxides of nitrogen

Hazardous Polymerization: will not occur

### Section 11: Toxicological Information

Acute Data: LD50 ORAL RAT 593 MG/KG

Skin - Rabbit corrosive after 1 to 4 hours

Subchronic data: no data

### Section 12: Ecological Information

LC50 - Poecilia reticulata (guppy) 89.1 mg/l - 96 h.

EC50 - Daphnia Magna (Water flea) - 42.4 mg/l - 48h

ErC50 - Desmodemus subspicatus (green algae) 130 mg/l - 72 h  
EC50 - activated sludge - >185 mg/l - 28 h.

### Section 13: Disposal Considerations

The following chart lists the status of the chemical and its components in reference to 40 CFR Part 261.33. If the product is listed by code number the substance may be subject to special federal and state disposal regulations. If no codes are listed the material must be disposed in compliance with all Federal, State and Local Regulations.

Waste Code	Regulated Name
Thiocyanic acid, co	not listed

### Section 14: Transportation Data

Proper Shipping Name	CORROSIVE SOLID ,N.O.S.
Chemical Name	GUANIDINIUM THIOCYANATE
UN	UN1759
Class	8
PG	III

### Section 15: Regulatory Information

Prop 65 - Column A identifies those items which are known to the State of California to cause cancer. Column B identified items which are known to the State of California to cause reproductive toxicity.

	Column A	Column B
Thiocyanic acid, compd. with guanidine (1:1)	no	no

State Regulatory Information :If a CAS# is listed below this material is subject to the listed state right-to-know requirements.

Thiocyanic aci not listed

### SARA Toxic Release Chemicals(as defined in Section 313 of SARA Title III)

This list identifies the toxic chemicals, including their de minimis concentrations for which reporting is required under Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA). The list is also referred to as the Toxics Release Inventory (TRI) List.

Regulated name	de minimis conc. %	Rep. Thres.
Thiocyanic acid, compd. with guanidine (1:1)	not listed	not listed

### SARA Extremely Hazardous Substances and TPQs

This list includes hazardous chemicals as defined in 29 CFR 1910.1200(c); and extremely hazardous substances regulated under Section 302 of SARA Title III with their TPQs (in pounds), as listed in 40 CFR 355, Appendices A and B.

Regulated name	TPQ (pounds)	EHS-RQ(pounds)
Thiocyanic acid, compd. with guanidine (1:1)	not listed	not listed

### CERCLA

The hazardous substances, and their reportable quantities (RQs) are listed in the federal regulations at 40 CFR Part 302, Table 302.4. Release of a CERCLA hazardous substance in an amount equal to or greater than its RQ, in any 24-hour period, must be reported to the National Response Center at (800) 424-8802.

Regulated name	RQ (pounds)
Thiocyanic acid, compd. with guanidine (1:1)	Not listed

### Section 16: Other Information

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END OF MSDS