



Issuing Date: 28-Apr-1998

Revision Date: 3-Jul-2018

Rev. 6

## 1. IDENTIFICATION OF THE SUBSTANCE/ MIXTURE AND THE COMPANY/UNDERTAKING

**Product Name:** Guanidine Thiocyanate  
**Product Code:** IB05100  
**Recommend Use:** For further manufacturing use only  
**Uses Advised Against:** Not for human or animal drug use  
**Company:** IBI SCIENTIFIC  
7445 Chavenelle Road  
Dubuque, IA 52002  
**Emergency Tele. Number:** 3E Company (Acct# 9027) 1-800-451-8346 / (001) 760-602-8703  
**Company Tele. Number:** 1-800-253-4942 / (001) 563-690-0484  
**E-Mail Address:** [info@ibisci.com](mailto:info@ibisci.com)

## 2. HAZARDOUS IDENTIFICATION

### GHS – Classification

**OSHA Regulatory Status:** This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29CFR 1910.1200)

Acute Toxicity - Oral:	Category 4
Acute Toxicity – Dermal	Category 4
Acute Toxicity – Inhalation (Vapors)	Category 4
Skin Corrosion/Irritation:	Category 1 Sub-Category C
Serious Eye Damage/Eye Irritation:	Category 1

**Signal Word:** Danger



**Appearance:** White  
**Physical State:** Crystalline Powder  
**Odor:** No information available  
**Hazard Statements:** H302-Harmful if swallowed  
H312-Harmful in contact with skin  
H314-Causes severe skin burns  
H332-Harmful if inhaled

**Precautionary Statements:**

P264-Wash face, hands, and any exposed skin thoroughly after handling  
P270-Do not eat, drink, or smoke when using this product  
P271-Use only outdoors or in well-ventilated area  
P260-Do not breathe dusts or mists  
P280-Wear protective gloves/protective clothing/eye protection/face protection  
P310-Immediately call a POISON CENTER or doctor  
P312-Call a POISON CENTER or doctor/physician if you feel unwell  
P301+P312-IF SWALLOWED: Call a POISON center or doctor/physician if you feel unwell  
P330-Rinse mouth  
P331-Do NOT induce vomiting  
P303+P362+P363-IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.  
P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P321-Specific treatment (see supplemental first aid instructions on this label)  
P304+P340-IF INHALED: Remove person to fresh air and keep comfortable for breathing  
P405-Store locked up  
P501-Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified:** Not applicable

**Other Information:** Harmful to aquatic life with long lasting effects

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<b>Chemical Name:</b>	Guanidine Thiocyanate
<b>EC No.:</b>	EEC No. 209-812-1
<b>REACH Reg. No.:</b>	Not Available
<b>CAS No.:</b>	593-84-0
<b>Weight %:</b>	95 – 100
<b>Classification:</b>	-

### 4. FIRST AID MEASURES

<b>Eye Contact:</b>	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
<b>Skin Contact:</b>	Wash off immediately with soap and plenty of water, removing all contaminated clothes and shoes.
<b>Inhalation:</b>	Move to fresh air. If not breathing, give artificial respiration.
<b>Ingestion:</b>	Clean mouth with water. Never give anything by mouth to an unconscious person. Consult a physician.
<b>Notes to Physician:</b>	Treat symptomatically.

### 5. FIRE FIGHTING MEASURES

<b>Flammable Properties:</b>	Not flammable
<b>Flash Point:</b>	Not determined
<b>Suitable Extinguishing Media:</b>	Dry chemical, CO <sub>2</sub> , water spray, regular foam
<b>Hazardous Combustion Products:</b>	Carbon oxides, Nitrogen oxides (NO <sub>x</sub> ), Sulfur oxides.
<b>Explosion Data</b>	
Sensitivity to Mechanical Impact:	Not sensitive
Sensitivity to Static Discharge:	Not sensitive

**Protective Equip. & Precautions for Firefighters:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equiv.) and full protective gear.

#### 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Ensure adequate ventilation, especially in confined areas.  
**Environmental Precautions:** See Section 12 for additional ecological information.  
**Methods for Containment:** Prevent further leakage or spillage, if safe to do so.  
**Methods for Cleaning Up:** Avoid dust formation. Pick up and transfer to properly labeled containers. Ventilate area and wash spill site after material pickup is complete.

#### 7. HANDLING AND STORAGE

**Handling:** Handle in accordance with good industrial hygiene and safety practice. Protect from light and moisture.  
**Storage:** Keep container tightly closed in a dry, cool, and well-ventilated place. Protect from light and moisture.  
**Incompatible Products:** Strong oxidizing agents, Strong acids, Cyanides.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Chemical Name:** Guanidine Thiocyanate - #593-84-0  
**ACGIH TLV:** -  
**OSHA PEL:** -  
**NIOSH IDLH:** -  
**Engineering Measures:** Showers, Eyewash Stations, Ventilation Systems

##### Personal Protective Equipment

**Eye/Face Protection:** Avoid contact with eyes. Safety glasses with side shields.  
**Skin & Body Protection:** Wear protective gloves/clothing.  
**Respiratory Protection:** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.  
**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety practice.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** White  
**Odor:** No information available  
**Odor Threshold:** No information available  
**Decomposition Temp. °C:** No information available  
**Freezing Point:** No information available  
**Initial Boiling Point:** No information available  
**Physical State:** Crystalline Powder  
**pH:** No data available  
**Flash Point:** Not determined  
**Autoignition Temp. °C:** No data available  
**Boiling Point/Range:** No data available  
**Melting Point/Range:** 115-118°C / 239-244°F  
**Flammability Limits (Air):** Upper-No data available \* Lower-No data available  
**Explosion Limits** No information available  
**Explosive Properties:** No information available  
**Oxidizing Properties:** No information available

Evaporation Rate:	No information available
MMHG @ 37.8°C:	No data available
Vapor Density:	No data available
Specific Gravity:	No data available
Water Solubility:	No data available
Solubility in other solvents:	No data available
Partition Coefficient (n-octanol/water):	No data available
Viscosity:	No information available

## 10. STABILITY AND REACTIVITY

Reactivity:	No data available
Chemical Stability:	Stable under recommended storage conditions
Possibility of Hazardous Reactions:	None under normal processing
Incompatible Products:	Strong oxidizing agents. Strong acids. Cyanides.
Conditions to Avoid:	Contact with acids liberates very toxic gas. Protect from light and moisture.
Hazardous Decomposition Products:	Carbon oxides, Nitrogen oxides (NO <sub>x</sub> ), Sulfur oxides
Hazardous Polymerization:	Hazardous polymerization does not occur.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

Product Information:

Inhalation:	Harmful by inhalation
Eye Contact:	May cause irreversible damage to eyes
Skin Contact:	Harmful in contact with skin. Causes burns.
Ingestion:	Harmful if swallowed

Chemical Name:	Guanidine Thiocyanate - #593-84-0
LD50 Oral:	593mg/kg (Rat)
LD50 Dermal:	-
LC50 Inhalation:	-

### Information on toxicological effects

Symptoms: No information available.

### Delayed and immediate effects as well as chronic effects from short and long term exposure

Skin Corrosion/Irritation	Irritating to skin
Serious Eye Damage/Irritation	Irritating to eyes
Sensitization:	No information available
Mutagenic Effects:	No information available
Carcinogenicity:	The listing below indicates whether each agency has listed any ingredient as a carcinogen

Chemical Name:	Guanidine Thiocyanate - #593-84-0
ACGIH:	-
IARC:	-
NTP:	-
OSHA:	-

Reproductive Toxicity:	No information available
STOT – single exposure:	No information available
STOT – repeated exposure:	No information available
Aspiration Effects:	No information available

### Numerical measures of toxicity – Product Information

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** 0% of mixture consists of component(s) of unknown hazards to aquatic environment

Chemical Name: Guanidine Thiocyanate - #593-84-0

Algae/Aquatic Plants: -

Toxicity to Fish: -

Crustacea: -

**Persistence and Degradability:** No information available

**Bioaccumulation/Accumulation:** No information available

Chemical Name: Guanidine Thiocyanate - #593-84-0

Partition coefficient: -

**Other Adverse Effects:** No information available

## 13. DISPOSAL CONSIDERATIONS

**Water Disposal Method:** Dispose of material in accordance with all federal, state, and local regulations.

**Contaminated Packaging:** Do not re-use empty containers.

Chemical Name: Guanidine Thiocyanate - #593-84-0

RCRA – Halogenated Organic Compounds: -

RCRA – P Series Wastes: -

RCRA – F Series Wastes: -

RCRA – K Series Wastes: -

Chemical Name: Guanidine Thiocyanate - #593-84-0

California Hazardous Waste Status: -

## 14. TRANSPORT INFORMATION

### IATA

UN# UN1759

Proper Shipping Name Corrosive Solids, N.O.S.  
(Guanidine Thiocyanate)

Hazardous Class 8

Packing Group III

### US DOT

UN# UN1759

Proper Shipping Name Corrosive Solids, N.O.S.

Hazardous Class 8

Packing Group III

## 15. TOXICOLOGICAL INFORMATION

### International Inventories

TSCA: Complies

DSL/NDSL: Complies

EINECS/ELINCS: Complies

ENCS: Complies

IECSC: Complies

KECL Does not comply

PICCS Complies

AICS Complies

**Legend:**

TSCA:	United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL:	Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS:	European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
ENCS:	Japan Existing and New Chemical Substances
IECSC:	China Inventory of Existing Chemical Substances
KECL	Korean Existing and Evaluated Chemical Substances
PICCS	Philippines Inventory of Chemicals and Chemical Substances
AICS	Australian Inventory of Chemical Substances

**U.S. Federal Regulations**

**SARA 313**

Section 313 of Title III of the superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act & Title 40 of the Code of Federal Regulations, part 372.

**SARA 311/312 Hazard Categories**

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

**Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical Name:	Guanidine Thiocyanate - #593-84-0
CWA – Reportable Quantities:	-
CWA – Toxic Pollutants:	-
CWA – Priority Pollutants:	-
CWA – Hazardous Substances:	-

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

Chemical Name:	Guanidine Thiocyanate - #593-84-0
Hazardous Substances RQs:	-
Extremely Hazardous Substances RQs:	-
RQ:	-

**U.S. State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

Chemical Name:	Guanidine Thiocyanate - #593-84-0
California Prop. 65:	-

**U.S. Right-to-Know Regulations**

Chemical Name:	Guanidine Thiocyanate - #593-84-0
New Jersey:	-
Massachusetts:	-
Pennsylvania:	-

**U.S. EPA Label Information**

**EPA Pesticide Registration #:** Not applicable.

Canada

No information available

**WHMIS Hazard Class**  
D2B – Toxic materials



#### 16. OTHER INFORMATION

<b>Issuing Date:</b>	12-Nov-1997
<b>Revision Date:</b>	3-Jul-2018
<b>Revision Note:</b>	Updated address and logo
<b>Recommended Restrictions:</b>	No information available
<b>Disclaimer:</b>	The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal, and release; and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the test.

**End of Safety Data Sheet**