

# MATERIAL SAFETY DATA SHEET

## GUANIDINE THIOCYANATE

### I IDENTIFICATION:

**BioShop Canada Inc.**  
5480 Mainway  
Burlington, Ontario L7L 6A4  
1-800-234-1179

**Emergency Telephone No.:** 905-466-3832  
**Chemical Name:** Guanidine thiocyanate  
**Catalog Number:** GUA002, GUA004  
**Molecular Formula:** C<sub>2</sub>H<sub>6</sub>N<sub>4</sub>S  
**Molecular Weight:** 118.16  
**WHMIS Classification:** D2B  
**TSCA Status:** listed on the TSCA Inventory

### II HAZARDOUS INGREDIENTS:

	CAS #	%
Guanidine thiocyanate	593-84-0	>99.5%

### III HAZARDS/TOXICOLOGICAL PROPERTIES:

**Routes of entry:** Eyes, skin, inhalation, Ingestion.

**Target Organs:** Kidneys, CNS liver, lung  
**Eyes:** Causes eye irritation. May cause conjunctivitis.  
**Skin:** Causes skin irritation. May cause allergic reaction. May be absorbed through skin. May cause similar symptoms as ingestion.  
**Inhalation:** May cause severe irritation to respiratory tract. May cause sore throat and lung edema. May cause CNS suppression.  
**Ingestion:** may cause irritation to GI tract. Harmful if ingested. May cause permanent damage to digestive tract. May cause liver, and kidney damage.

**CHRONIC HEALTH HAZARDS;** May cause liver, kidney and lung damage. May cause allergic reactions in some people.

#### Exposure Limits:

No LD50 information found.

**Epidemiology:** No data available  
**Teratogenicity:** No data available  
**Reproductive Effects:** No data available  
**Neurotoxicity:** No data available  
**Mutagenicity:** No data available

### IV FIRST AID MEASURES:

**Eyes:** Flush eyes with water, GET MEDICAL ATTENTION  
**Skin:** In case of contact, flush area immediately with water. GET MEDICAL ATTENTION.  
**Inhalation:** Remove victim to fresh air. If not breathing give artificial respiration. If breathing is difficult give oxygen and GET MEDICAL ATTENTION.  
**Ingestion:** Wash mouth with water. Do not induce vomiting. GET MEDICAL ATTENTION IMMEDIATELY.

### V FIRE AND EXPLOSION HAZARDS:

**Flammable:** No  
**Flash Point:** N/A  
**Extinguishing Media:** Use water spray, foam, dry chemical or carbon dioxide.  
**Explosion Data:** Not available

### VI REACTIVITY:

**Stability:** Stable at normal room temperature and pressure  
**Conditions to avoid:** dust generation, moisture  
**Incompatibility:** High temperatures. Strong oxidizing agents, strong bases, water, acids.  
**Hazardous Decomposition Products:** Thermal decomposition may produce toxic fumes of, hydrogen cyanide, carbon monoxide, carbon dioxide, cyanide fumes, hydrocarbons  
**Hazardous Polymerization:** Has not been reported

### VII PHYSICAL DATA:

**Physical State:** Crystalline solid  
**Appearance and Odor:** N/A  
**Melting Point:** 115-118C  
**Boiling Point:** N/A  
**Specific Gravity:** N/A  
**Vapor Density:** N/A  
**Water Solubility:** yes  
**pH:** N/A

### VIII PREVENTIVE MEASURES:

**Personal Protection:** Lab coat, safety goggles, rubber gloves.  
**Ventilation:** Local exhaust systems. Use fume hood  
**Respiratory protection:** use OSHA/MSHA approved respirator.  
**Leak and Spill Procedures:** Ventilate the area. Wear appropriate protective equipment. Cover with dry lime or soda. Sweep and place in a closed container.  
**Waste Disposal:** Burn in chemical incinerator. Observe all Federal, provincial and local regulations.  
**Other precautions:** Avoid contact. Do not get in eyes, on skin, or clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse.  
**Storage Conditions:** Room temperature. Avoid light.  
**Label Hazard Warning:** Corrosive. Harmful, possible risk of irreversible effects, harmful to skin, eyes and respiratory system. Avoid eye and skin contact. Avoid inhalation and ingestion.  
**Shipping Information:** not regulated

### IX PREPARATION OF MSDS:

Prepared By: M.Kierdelewicz (President)  
Date Prepared: Dec 3/2011  
Phone: (800) 234-1179

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