

# SAFETY DATA SHEET

## THIOUREA

### SECTION 1: CHEMICAL AND COMPANY IDENTIFICATION

**BioShop Canada Inc.**  
**5480 Mainway**  
**Burlington, Ontario L7L 6A4**  
**1-800-234-1179**  
**Emergency Telephone No.: 1-905-466-3832**  
**Chemical Name:** Thiourea  
**Catalog Number:** THI555, THI666, THI777

### SECTION 2 HAZARDS IDENTIFICATION

#### GHS Classification:

Acute toxicity, Oral (Category 4)  
Carcinogenicity (Category 2)  
Reproductive toxicity (Category 2)

#### Pictogram:



**Signal word:** DANGER

#### Hazard statement:

H302 Harmful if swallowed.  
H351 Suspected of causing cancer.  
H361 Suspected of damaging fertility or the unborn child.

#### Precautionary statement:

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
P391 Collect spillage.  
P405 Store locked up.  
P501 Dispose of contents/ container to an approved waste disposal plant.

#### Potential Health Effects

**Target Organs:** None known

**Eyes:** May cause eye irritation.

**Skin:** May cause skin irritation. May be harmful if absorbed through skin.

**Inhalation:** may cause irritation. The toxicological properties of this substance have not been fully investigated.

**Ingestion:** harmful if swallowed

**CHRONIC HEALTH HAZARDS:** Not available

### SECTION 3 COMPOSITION/ INGREDIENTS

	CAS #	%
Thiourea	62-56-6	>99%

**Molecular Formula:** CH<sub>4</sub>N<sub>2</sub>S  
**Molecular Weight:** 76.12

### SECTION 4 FIRST AID MEASURES

**Eyes:** Flush eyes with plenty of water for at least 15 minutes. GET MEDICAL AID

**Skin:** Flush area immediately with plenty of soap and water while removing contaminated clothing and shoes..

**Inhalation:** Remove victim to fresh air. If not breathing give artificial respiration. If breathing is difficult give oxygen . GET MEDICAL ATTENTION.

**Ingestion:** Wash mouth with water. Do not induce vomiting . GET MEDICAL AID

### SECTION 5 FIRE FIGHTING MEASURES

**General Information:** Always wear full protective gear in the event of a fire. Toxic gases and vapors may be generated by decomposition or combustion. Excessive dust in combination with air can create an explosive mixture.

**Flammable:** No

**Flash Point:** N/A

**Autoignition Temperature:** N/A

**Extinguishing Media:** Use water spray, foam, dry chemical or carbon dioxide.

**Explosion Data:** Not available

### SECTION 6 ACCIDENTAL RELEASE MEASURES

Ventilate the area. Wear appropriate protective equipment. Sweep and place in a closed container. In the event of a fire always wear self-contained breathing apparatus, NIOSH/MSHA approved or equivalent.

**Leak and Spill Procedures:** Ventilate the area. Wear appropriate protective equipment. Cover with dry lime or soda. Sweep and place in a closed container. Avoid generating dust.

### SECTION 7 HANDLING AND STORAGE

**Handling:** Avoid contact. Do not get in eyes, on skin, or clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse. Minimize dust generation.

**Storage Conditions:** room temperature

### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

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Exposure limits: none listed by OSHA  
ACGIH, N/A  
Use adequate ventilation. AVOID DUST GENERATION.  
Wear appropriate protective equipment to prevent eye and skin exposure.  
Wear appropriate respirator to prevent lung irritation.  
**Personal Protection:** Lab coat, safety goggles, rubber gloves.  
**Ventilation:** Local exhaust systems. Use fume hood  
**Respiratory protection:** use OSHA/MSHA approved respirator.

### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** crystals  
**Appearance/odor:** white. Odorless  
**pH:** N/A  
**Vapor density:** 2.6  
**Vapor pressure:** 2.5mm Hg  
**Viscosity:** N/A  
**Freezing /Melting pt.:** 176-178C  
**Boiling pt.:** decomposes  
**Decomposition temp:** >180C  
**Solubility:** soluble in water.  
**Specific Gravity:** N/A

### SECTION 10 STABILITY AND REACTIVITY:

**Stability:** Stable under normal temperatures and pressure  
**Conditions to avoid:** dust generation. Excess heat  
**Incompatibility:** Strong oxidizing agents  
**Hazardous Decomposition Products:** carbon monoxide, carbon dioxide, hydrogen chloride, nitrogen oxide, sulfur oxides  
**Hazardous Polymerization:** Will not occur

### SECTION 11 TOXICOLOGICAL PROPERTIES

#### Exposure Limits:

LD50 / LC50:  
Oral rat: LD50= 1700mg/kg

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

### SECTION 12 ECOLOGICAL INFORMATION

No information found.

### SECTION 13 DISPOSAL CONSIDERATION

**Waste Disposal:** Burn in chemical incinerator. Observe all Federal, provincial and local regulations.

### SECTION 14 TRANSPORT INFORMATION

**Shipping Information:**  
**US:** Not regulated  
**Canada:** Not regulated  
**European Union:** Not regulated

### SECTION 15 REGULATORY INFORMATION

**US :** TSCA: not listed  
**European/International:**  
Not available  
**Canada:** WHMIS: D1A

### SECTION 16 ADDITIONAL INFORMATION

#### Hazard Rating System (estimated)

NFPA	Health	Fire	Reactivity
	3	0	0

Prepared By: M.Kierdelewicz (President)  
Date Prepared: Jan 1/2025  
Phone: (800) 234-1179

The information provided on this Material Safety Data Sheet is furnished in good faith and without warranty of any kind. The above information is believed to be correct and should be used only as a guide. BioShop Canada Inc. shall not be held liable for any damage resulting from the handling or from the contact with the above product.  
Observe all federal, provincial and state laws concerning health, safety and pollution.