

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: CH₄N₂S
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: Oct 6/2022
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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.