

# BioShop Canada Inc.

## MATERIAL SAFETY DATA SHEET

### THIOUREA

#### I IDENTIFICATION:

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

Emergency Telephone No.: 905-466-3832

Chemical Name: Thiourea

Catalog Number: THI555/ THI666

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

Molecular Weight: 76.12

WHMIS Classification: D1B, D2A

TSCA Status: Listed on the TSCA Inventory

#### II HAZARDOUS INGREDIENTS:

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

#### III HAZARDS/TOXICOLOGICAL PROPERTIES:

**WARNING:** Harmful if swallowed.

**Target organs:** Blood, liver, reproductive system, thyroid.

**Potential Health Effects:**

**Eyes:** causes eye irritation.

**Skin:** causes skin irritation.

**Ingestion:** Harmful if swallowed. May cause anemia. May cause severe irritation to the GI tract. May cause bone marrow depression.

**Inhalation:** May cause respiratory irritation

**CHRONIC HEALTH HAZARDS:** May cause cancer according to animal studies.. may cause damage to the thyroid.

**Toxicity Data:**

Draize test, rabbit, eye: 14%.

Oral rat: LD50= 125mg/kg

**Epidemiology:** No info found

**Carcinogenicity:** suspected carcinogen .

**Reproductive effects:** abnormalities in rats were noted

**Neurotoxicity:** No info.

#### IV FIRST AID MEASURES:

**Eyes:** Immediately flush with plenty of water for at least 15 minutes.

**Skin:** Immediately flush area with soap and water. Remove contaminated clothing..

**Inhalation:** Remove from exposure to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms persist.

**Ingestion:** If swallowed wash mouth out with water if person is conscious. GET MEDICAL ATTENTION if symptoms persist. > Do Not induce vomiting.

#### V FIRE AND EXPLOSION HAZARDS:

**Flammable:** No

**Extinguishing Media:** water, dry chemical or chemical foam

**Explosion Data:** no data available

#### VI REACTIVITY:

**Stability:** Stable under normal temperature and pressure. Polymerization may occur upon heating.

**Conditions to avoid:** . excess heat, dust..

**Incompatibilities:** strong oxidizing and reducing strong acids and bases. Agents, hydrogen peroxide.

**Hazardous Combustion or Decomposition Products:** Nitrogen oxides. Carbon monoxide, carbon dioxide.

**Hazardous Polymerization:** May occur..

#### VII PHYSICAL DATA:

**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:** 1405

#### VIII PREVENTIVE MEASURES:

**Respiratory protection:** Wear appropriate NIOSH/MSHA approved respirator, chemical resistant gloves, safety goggles and protective clothing.

**Leak and Spill Procedures:** Evacuate the area. Ventilate the area. Wear self-contained breathing apparatus, rubber boots and heavy rubber gloves. Absorb with sand or vermiculite and place in closed containers for disposal. Wash spill site after material pickup is complete.

**Waste Disposal:** See local authorities for proper disposal procedures. Do not flush down drain.

**Other precautions:** Avoid contact. Do not get in eyes, on skin, or clothing.

**Storage Conditions:** Store in a cool dry place. Keep tightly closed. Avoid ignition sources. Avoid moisture

**Label Hazard Warning:** Toxic , Harmful if swallowed

**Shipping Information:** TOXIC SOLID ORGANIC NOS CLASS 6.1, UN 2811 PACKING GROUP III.

#### IX PREPARATION OF MSDS:

Prepared By: M. Kierdelewicz (President)

Date: Jan 6/2012

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.