

# SAFETY DATA SHEET

## METHOTREXATE

### 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:** Methotrexate  
**Catalog Number:** MTX440

### SECTION 2 HAZARDS IDENTIFICATION

#### GHS Hazards Identification

Acute toxicity:, Oral (category 3)  
Skin irritation: (Category 2)  
Serious Eye irritation: (Category 2)  
Specific Target Organ Toxicity, Single exposure; respiratory Tract Irritation (Category 3)  
Reproductive Toxicity (Category 1B)

#### Signal Word Danger:



#### GHS Hazard Statements

H301- Toxic if swallowed  
H315- Causes skin irritation  
H319- Causes serious eye irritation  
H335- May cause respiratory irritation  
H360- May damage fertility or the unborn child

#### GHS Precautionary Statements

**P280-** Wear protective gloves/protective clothing/eye/face protection.  
**P201-** Obtain special instructions before use  
**P302/P352-** IF ON SKIN: Wash with plenty of soap and water.  
**IF IN EYES:** rinse cautiously with water for several minutes.  
remove contact lenses, if present and easy to do. Continue rinsing.

**P305/P351/P338-** If swallowed: call POISON CENTER or  
**P301/P312** doctor/physician if you feel unwell.

#### Potential Health Effects

**Target Organs:** Eyes, skin, respiratory system, digestive system

**Eyes:** causes serious eye irritation.

**Skin:** causes skin irritation.

**Inhalation:** causes irritation. May cause respiratory difficulty. harmful if

inhaled

**Ingestion:** Harmful if swallowed. TOXIC if swallowed

### SECTION 3 COMPOSITION/ INGREDIENTS

	CAS #	%
Methotrexate	59-05-2	99+

MW Formula: C<sub>20</sub>H<sub>22</sub>N<sub>8</sub>O<sub>5</sub>  
MW: 454.44

### SECTION 4 FIRST AID MEASURES

**Eyes:** Flush eyes with plenty of water for at least 15 minutes. Contact physician

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

**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. GET MEDICAL ATTENTION .

### SECTION 5 FIRE FIGHTING MEASURES

**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. Dispose according to local and national regulations,

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

### 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.

**Storage Conditions:** Room temperature.

### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits: none listed

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.

# SAFETY DATA SHEET

## METHOTREXATE

### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Solid  
**Appearance and Odor:** yellow powder. No odor  
**Melting Point:** N/A  
**Boiling Point:** N/A  
**Specific Gravity:** N/A  
**Vapor Density:** N/A  
**Solubility:** DMSO  
**pH:** N/A

### SECTION 10 STABILITY AND REACTIVITY:

**Stability:** Stable under normal temperatures and pressure  
**Conditions to avoid:** generation of dust.  
**Incompatibility:** Strong oxidizing agents  
**Hazardous Decomposition Products:** Nitrogen oxides, carbon monoxide, ammonia, carbon dioxide.  
**Hazardous Polymerization:** Will not occur

### SECTION 11 TOXICOLOGICAL PROPERTIES

#### Exposure Limits:

LD50 / LC50:  
Oral, mouse: LD50=146mg/kg  
Oral, rat: LD50=135mg/kg

**Epidemiology:** No data available  
**Teratogenicity:** No data available  
**Reproductive Effects:** fetotoxicity shown  
**Neurotoxicity:** No data available  
**Mutagenicity:** mutagenic as shown in vitro studies  
**Carcinogenicity:** No data available

### SECTION 12 ECOLOGICAL INFORMATION

No information found.

### SECTION 13 DISPOSAL CONSIDERATION

**Waste Disposal:** Burn in chemical incinerator. Observe all Federal, provincial and local regulations.  
Product is not to be disposed of in sanitary sewers, storm sewers or landfills.

### SECTION 14 TRANSPORT INFORMATION

**Shipping Information:**

US DOT:  
Toxic solids, organic, n.o.s. (Methotrexate)  
IATA: 6.1, Class III UN # 2801

Canada:  
Toxic solids, organic, n.o.s. (Methotrexate)  
IATA: 6.1, Class III UN # 2801

### SECTION 15 REGULATORY INFORMATION

**US :** TSCA: listed  
**European/International:** not listed with the EU  
**Canada:** not listed on DSL/NDSL

### SECTION 16 ADDITIONAL INFORMATION

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.