

SAFETY DATA SHEET

ETHYLENE GLYCOL

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: Ethylene glycol
Catalog Number: ETH001

SECTION 2 HAZARDS IDENTIFICATION

GHS Classification:

Acute toxicity, Oral (Category 4)
Specific target organ toxicity - repeated exposure, Oral (Category 2), Kidney

Pictogram:



Signal word: WARNING

Hazard statements:

H302 Harmful if swallowed.
H373 May cause damage to organs (Kidney) through prolonged or repeated exposure if swallowed.

Precautionary statement:

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
P314 Get medical advice/ attention if you feel unwell.

Potential Health Effects

Target Organs: Kidneys, CNS, eyes, respiratory tract

Eyes: May cause eye irritation.

Skin: May cause skin irritation.

Inhalation: may cause irritation.

Ingestion: May be harmful if swallowed. Ingestion may cause nausea, vomiting and diarrhea. **Lethal dose for humans is 100ml.** May cause CNS disturbances, convulsions, and coma. May cause renal failure.

CHRONIC HEALTH HAZARDS: Repeated exposure may cause kidney

damage. Irritation to respiratory tract.

SECTION 3 COMPOSITION/ INGREDIENTS

	CAS #	%
Ethylene glycol	107-21-1	>95%
Molecular Formula: C ₂ H ₆ O ₂		
Molecular Weight: 62.06		

SECTION 4 FIRST AID MEASURES

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

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. GET MEDICAL ATTENTION .

SECTION 5 FIRE FIGHTING MEASURES

General Information: Always wear full protective gear in the event of a fire.

Toxic gas and vapors may be generated by decomposition or combustion.

Flash Point: 111C

Autoignition Temperature: 398C

Explosion limits: Lower: 3.20 vol% . Upper: 15.30 vol%.

Extinguishing Media: **Small fires:** Use water spray, foam, dry chemical or carbon dioxide. **Large fires:** water spray .Alcohol resistant foam.

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.. Absorb with inert material like vermiculite or earth. Sweep into suitable 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. Minimize dust generation.

Storage Conditions: Room temperature.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits: ACGIH: 100MG/M3 CEILING

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

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Respiratory protection: use OSHA/MSHA approved respirator.

Canada: not regulated

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid
Appearance and Odor: clear/colorless viscous..
Freezing/Melting Point: N/A
Boiling Point: 197C
Specific Gravity: 1.113 g/ml
Vapor Density: N/A
Vapor pressure: 0.05 mm Hg@ 20C
Viscosity: 21cP
Solubility: soluble in water
pH: N/A

SECTION 10 STABILITY AND REACTIVITY:

Stability: Stable under normal temperatures and pressure. Hygroscopic.
Conditions to avoid: moisture and heat.
Incompatibility: Strong oxidizing agents and reducing agents, caustics.
Hazardous Decomposition Products: carbon monoxide, carbon dioxide,
Hazardous Polymerization: Will not occur

SECTION 11 TOXICOLOGICAL PROPERTIES

Exposure Limits:

LD50 / LC50:
Oral, mouse: LD50=5500 mg/kg
Oral, Rat= LD50+4700 mg/kg
Draize test: rabbit, eye: 500mg/24H r mild.

Lethal dose for humans: 100ml.

Epidemiology: No data available
Teratogenicity: No data available
Reproductive Effects: No data available
Neurotoxicity: No data available
Mutagenicity: No data available
Carcinogenicity: Not listed by ACGIH, IARC, NTP, or OSHA

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity: rainbow trout; LC50=4100 mg/L, 96hr
Goldfish: LC50=27500-41000 mg/L 96hr, unspecified

SECTION 13 DISPOSAL CONSIDERATION

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

SECTION 14 TRANSPORT INFORMATION

US DOT: not regulated

SECTION 15 REGULATORY INFORMATION

US : TSCA: listed
European/International: Harmful if swallowed
Canada: WHMIS: **D2B**

SECTION 16 ADDITIONAL INFORMATION

Hazard Rating System (estimated)

NFPA	Health	Fire	Reactivity
	2	1	0

Prepared By: M.Kierdelewicz (President)
Date Prepared: Jan 1/2025
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Observe all federal, provincial and state laws concerning health, safety and pollution.