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: Kineys, 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# % 107-21-1 >95% Ethylene glycol

Molecular Formula: C2H6O2 Molecular Weight: 62.06

SECTION 4 FIRST AID MEASURES

Eves: 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 gase 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.

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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

Canada: 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

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Date Prepared: Dec 29/2021 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.