

SAFETY DATA SHEET

GLYCEROL

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: Glycerol
Catalog Number: GLY001/GLY002/GLY003/GLY004

SECTION 2 HAZARDS IDENTIFICATION

GHS Classification:
Not hazardous according to GHS

Potential Health Effects

Target Organs: None known
Eyes: May cause eye irritation.
Skin: May cause skin irritation.
Inhalation: May cause irritation. May cause respiratory tract irritation when exposed to mist of this product.
Ingestion: May cause irritation of the digestive tract.
CHRONIC HEALTH HAZARDS: Not available

SECTION 3 COMPOSITION/ INGREDIENTS

	CAS #	%
Glycerol	56-81-5	100

Molecular Formula: C₃H₈O₃
Molecular Weight: 92.05

SECTION 4 FIRST AID MEASURES

Eyes: Flush eyes with plenty of water for at least 15 minutes. If irritation develops 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 if symptoms develop.
Ingestion: Wash mouth with water. Do not induce vomiting . Get medical aid if irritation or symptoms develop.

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. When heated sufficiently, containers may explode.
Flammable: No
Flash Point: 193C
Autoignition Temperature: 400C
Extinguishing Media: Use water spray, foam, dry chemical or carbon dioxide.
Explosion Data: Lower:1.1 Upper : N/A

SECTION 6 ACCIDENTAL RELEASE MEASURES

Ventilate the area. Wear appropriate protective equipment. Absorb with inert material 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 absorbent material. Sweep and place in a closed container. Avoid excessive heat.

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 spills and run-off..
Storage Conditions: Room temperature.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits: OSHA: 10mg/m³ TWA
Use adequate ventilation.
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.
Respiratory protection: use OSHA/MSHA approved respirator if OSHA limits are exceeded.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid
Appearance and Odor: clear, no odor
Freezing/Melting Point: -6.7 C
Boiling Point: 290C
Specific Gravity: 1.4746
Vapor Density: 3.17
Solubility: miscible in water
pH: N/A

SECTION 10 STABILITY AND REACTIVITY:

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Stability: Stable under normal temperatures and pressure
Conditions to avoid: dust generation. Excess heat
Incompatibility: Strong oxidizing agents
Hazardous Decomposition Products: toxic fumes of, carbon monoxide, carbon dioxide,
Hazardous Polymerization: Will not occur

Prepared By: M.Kierdelewicz (President)
Date Prepared: Jan 1/2025
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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.

SECTION 11 TOXICOLOGICAL PROPERTIES

Exposure Limits:

LD50 / LC50:
Oral, mouse LD50= 4090 mg/kg
Oral, rat LD50= 12600 mg/kg
Draize test: rabbit , eye: 126 mg Mild
Draize test: rabbit , eye: 500 mg/24hr, mild.

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

No information found on toxicity, biodegradability, bioaccumulation.

SECTION 13 DISPOSAL CONSIDERATION

Waste Disposal: Observe all Federal, provincial and local regulations.
Dispose of surplus and non-recyclable solutions to a licensed disposal company.

SECTION 14 TRANSPORT INFORMATION

Shipping Information: Not regulated

SECTION 15 REGULATORY INFORMATION

US: TSCA: listed
European/International: safety phrases: avoid contact with skin and eyes
Canada: WHMIS: not controlled

SECTION 16 ADDITIONAL INFORMATION

Hazing Rating System (estimated)

NFPA	Health	Fire	Reactivity
	1	0	0