

SAFETY DATA SHEET

PHENOL, Saturated (pH 6.6)

SECTION 1: CHEMICAL AND COMPANY IDENTIFICATION

BioShop Canada Inc.
5480 Mainway
Burlington, Ontario L7L 6A4
1-800-234-1179
Emergency Telephone No.: CANUTEC 1-613-996-6666
Chemical Name: phenol, mixture
Catalog Number: PHE510

SECTION 2 HAZARDS IDENTIFICATION

GHS Classification:

Acute toxicity, Oral (category 3)
Acute toxicity, Inhalation (category 3)
Acute toxicity, Dermal (category 3)
Skin corrosion (category 1B)
Serious eye damage (category 1)
Germ cell mutagenicity (category 2)
Specific target organ toxicity - repeated exposure (Category 2), Nervous system, Kidney, Liver, Skin

Pictogram:



Signal word: **Danger**

Hazard statements

H301 + H311 + H331 Toxic if swallowed, in contact with skin or if inhaled.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H341 Suspected of causing genetic defects.
H360 May damage fertility or the unborn child.
H373 May cause damage to organs (Nervous system, Kidney, Liver, Skin) through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P201 Obtain special instructions before use
P202 Do not handle until all safety precautions have been read and understood
P260 Do not breathe dust or mist
P264 Wash skin thoroughly after handling
P270 Do not eat, drink or smoke when using this product
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P301+P312+P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304+P340+P310 IF INHALED: remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.

P305+P351+P338+P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do.. Continue rinsing. Immediately call a POISON CENTER/doctor.
P308+P313 IF exposed or concerned: Get medical advice/ attention.
P363 Wash contaminated clothing before reuse.
P405 Store locked up.
P501 Dispose of contents/ container to an approved waste disposal plant.

SECTION 3 COMPOSITION/ INGREDIENTS

	CAS #	%
PHENOL	108-95-2	85
Water:	7732-18-5	15%

SECTION 4 FIRST AID MEASURES

Eyes: Immediately flush with plenty of water for at least 15 minutes. GET MEDICAL ATTENTION
Skin: Immediately flush area with soap and water. Remove contaminated clothing. GET MEDICAL ATTENTION.
Inhalation: GET MEDICAL ATTENTION IMMEDIATELY. Remove from exposure to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.
Ingestion: If swallowed wash mouth out with water if person is conscious. GET MEDICAL ATTENTION. CALL POISON CENTER> Do Not induce vomiting.

SECTION 5 FIRE FIGHTING MEASURES

General Information: Use full protective gear. Combustion generates toxic fumes. Combustible solid. Containers may explode when heated.
Flammable: No
Flash Point: No data available
Autoignition Temperature: No data available
Extinguishing Media: Use water spray, foam, dry chemical or carbon dioxide.
Explosion Data
Limits :
No data available

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. Cover with vermiculite, or sand. Sweep and place in a closed container

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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. Keep away from ignition sources and heat. Protect from light.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits:
PHENOL
ACGIH: 5ppm: skin
NIOSH: 5 ppm TWA; 19mg/m³ 250 ppm IDLH
OSHA: 5 ppm TWA; 19 mg/m³ TWA
Use adequate ventilation. AVOID IGNITION SOURCES.
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.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State: liquid
Appearance/odor: clear to yellow
pH: 6.6
Vapor density: no data available
Vapor pressure: no data available
Viscosity: no data available
Freezing /Melting pt.: no data available
Boiling pt.: no data available
Decomposition temp: no data available
Solubility: no data available.
Specific Gravity: 1.23

SECTION 10 STABILITY AND REACTIVITY:

Stability: Stable under normal temperatures and pressure.
Conditions to avoid: IGNITION SOURCES, High temperatures. Forms explosive mixtures with air on intense heating.
Incompatibility: Strong oxidizing agents and reducing agents
Hazardous Decomposition Products: carbon monoxide, carbon dioxide,
Hazardous Polymerization: has not been reported

SECTION 11 TOXICOLOGICAL PROPERTIES

Exposure Limits:

LD50 / LC50:

Toxicity Data for phenol:

Exposure Limits: LD50/LC50

Inhalation, mouse: LC50 = 177mg/m³

Inhalation Rat: LC50 = 316mg/m³

Oral, mouse: LD50 =270mg/kg

Oral, rat: LD50 = 317mg/kg
Skin, rabbit: LD50 = 630mg/kg
Skin, rat: LD50 = 669mg/kg

Epidemiology: No data available
Teratogenicity: No data available
Reproductive Effects: No data available
Neurotoxicity: No data available
Mutagenicity: Laboratory experiments have shown mutagenic effects.
Carcinogenicity: Not listed by ACGIH, IARC, NTP, or OSHA

SECTION 12 ECOLOGICAL INFORMATION

Fish: Fathead minnow: LC50 >50mg/l.

SECTION 13 DISPOSAL CONSIDERATION

Waste Disposal. Observe all Federal, provincial and local regulations.
Discard as hazardous waste.

SECTION 14 TRANSPORT INFORMATION

Shipping Information: REGULATED

DOT (US) UN number: 2821 Class: 6.1 Packing group: II Proper shipping name: Phenol solutions Reportable Quantity (RQ): 1162 lbs Poison Inhalation Hazard: No
IMDG UN number: 2821 Class: 6.1 Packing group: II EMS-No: F-A, S-A
Proper shipping name: PHENOL SOLUTION Marine pollutant : yes
IATA UN number: 2821 Class: 6.1 Packing group: II Proper shipping name: Phenol solution

SECTION 15 REGULATORY INFORMATION

US : TSCA: listed
European/International:
Canada: WHMIS: **E**, **D1A**

SECTION 16 ADDITIONAL INFORMATION

Hazard Rating System (estimated)

NFPA	Health	Fire	Reactivity
	4	2	0

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.