

SAFETY DATA SHEET

POTASSIUM HYDROXIDE

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: Potassium hydroxide
Catalog Number: PHY202

SECTION 2 HAZARDS IDENTIFICATION

WHMIS:

E Corrosive material Corrosive

GHS Classification:

Skin corrosion (Category 1)
Serious eye damage (Category 1)
Acute aquatic toxicity (category 3)

Pictogram:



Signal word: **Danger**

Hazard statement:

H314 causes severe skin burns and eye damage
H402 Harmful to aquatic life

Precautionary statements:

P305+P351+P338 IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310: Immediately call a POISON CENTER or doctor/physician.

Target Organs: None known.

Eyes: Causes eye burns.

Skin: Causes skin irritation. May cause burns.

Inhalation: Causes irritation. May cause burns.

Ingestion: Harmful if swallowed. May cause burns and vomiting.

CHRONIC HEALTH HAZARDS:

Corrosive. Harmful If swallowed. Causes severe eye and skin Irritation. May cause burns.

SECTION 3 COMPOSITION/ INGREDIENTS

CAS #	%
Potassium Hydroxide	
1310-58-3	85%

Molecular Formula: KOH
Molecular Weight: 56.11

SECTION 4 FIRST AID MEASURES

Eyes: Flush eyes with water for at least 15 minutes, occasionally lifting the upper and lower eyelids. GET MEDICAL ATTENTION

Skin: In case of contact, flush area immediately with soap and water while removing contaminated clothing and shoes. Wash clothing before reuse. Discard contaminated clothing in a manner which limits further exposure. 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. > Do Not induce vomiting.

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. 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 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. Minimize dust generation.

Storage Conditions: Room temperature.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits:

2mg/m3, canada

Use adequate ventilation. AVOID DUST GENERATION.

Wear appropriate protective equipment to prevent eye and skin exposure.

SAFETY DATA SHEET

POTASSIUM HYDROXIDE

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: Solid pellets

Appearance and Odor: White, odorless

Melting Point: 360° C

Boiling Point: 1320°C

Specific Gravity: 2.0440/gm3

Vapor Density: N/A

Water Solubility: 111g/100ml water (20°C)

pH: approx. N/A

SECTION 10 STABILITY AND REACTIVITY:

Stability: Stable. Readily absorbs carbon dioxide and moisture from the air and deliquesces.

Conditions to avoid: dust generation

Incompatibility: Halogenated hydrocarbons, halogens, nitrocompounds, organic materials, acid chlorides, acid anhydrides, magnesium, copper, generates large amounts of heat when in contact with water and may steam and splatter. Reacts with chlorine dioxide, nitrobenzene, nitromethane, nitrogen trichloride, peroxidized tetrahydrofuran, 2,3,6-trinitrotoluene, bromoform + crown ethers, acids alcohols, sugars, germanium cyclopentadiene, maleic cidarbide. Corrosive to metals such as aluminum, tin and zinc to cause formation of flammable hydrogen gas, moisture.

Hazardous Decomposition Products: carbon monoxide, carbon dioxide, oxides of potassium, hydrogen

Hazardous Polymerization: Will not occur

SECTION 11 TOXICOLOGICAL PROPERTIES

Exposure Limits:

LD50: No data available

Skin corrosion/irritation:

Skin, rabbit, causes severe burns

Serious eye damage/eye irritation:

Eyes, rabbit, severe eye irritation

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

Toxicity:

Fish, LC50 , Mosquito fish-125mg/L- 95hr.

SECTION 13 DISPOSAL CONSIDERATION

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

SECTION 14 TRANSPORT INFORMATION

DOT (US)

UN number: 1823 Class 8 Packing group: II

Proper shipping name: POTASSIUM HYDROXIDE, SOLID

IMDG

UN number: 1823 Class 8 Packing group: II

Proper shipping name: POTASSIUM HYDROXIDE, SOLID

IATA

UN number: 1823 Class 8 Packing group: II

Proper shipping name: POTASSIUM HYDROXIDE, SOLID

SECTION 15 REGULATORY INFORMATION

US : TSCA: listed

European/International: N/A

Canada: WHMIS: **E**

SECTION 16 ADDITIONAL INFORMATION

Prepared By: M.Kierdelewicz (President)

Date Prepared: Oct 9/2019

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.