

# 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

#### 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 #                                   | %          |
|---|------------|
| <b>Potassium Hydroxide</b><br>1310-58-3 | <b>85%</b> |

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.

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.

### **Toxicity:**

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

### 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 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: 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.

### 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