

# MATERIAL SAFETY DATA SHEET

## SODIUM HYDROXIDE, (pellets)

### I IDENTIFICATION:

**BioShop Canada Inc.**  
5480 Mainway  
Burlington, Ontario L7L 6A4  
1-800-234-1179

**Emergency Telephone No.:** 905-466-3832  
**Chemical Name:** Sodium Hydroxide, reagent  
**Catalog Number:** SHY700/SHY500  
**Molecular Formula:** NaOH  
**Molecular Weight:** 40.0  
**WHMIS Classification:** E  
**TSCA Status:** Listed on the TSCA Inventory

### II HAZARDOUS INGREDIENTS:

	CAS #	RTECS #	%
Sodium Hydroxide	1310-73-2	WB4900000	99%

### III HAZARDS/TOXICOLOGICAL PROPERTIES:

**Effects of Acute Exposure:** Prolonged or repeated skin contact may cause dermatitis. Prolonged or repeated eye contact may cause conjunctivitis.  
**Routes of entry:** Eyes, skin, inhalation, ingestion.

**Eyes:** Causes eye burns. May cause irreversible eye injury. Contact may cause ulceration of the conjunctiva and cornea. Causes redness and pain.

**Skin:** Causes skin burns. May cause deep, penetrating ulcers of the skin.

**Inhalation:** Harmful if inhaled. Inhalation may lead to chemical pneumonitis and pulmonary edema. Causes severe irritation of upper respiratory tract with coughing, burns, breathing difficulty and possible coma.

**Ingestion:** Harmful if swallowed. May cause severe and permanent damage to the digestive tract. May cause circulatory system failure. May cause perforation of the digestion tract.

**CHRONIC HEALTH HAZARDS:** Prolonged or repeated skin contact may cause dermatitis. Prolonged or repeated eye contact may cause conjunctivitis. Effects may be delayed.

### IV 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.

### V FIRE AND EXPLOSION HAZARDS:

**Flammable:** No

**Flash Point:** N/A

**Extinguishing Media:** do not use water directly on fire. Use appropriate extinguishing for the surrounding area.

**Explosion Data:** Not available

### VI REACTIVITY:

**Stability:** Stable. Readily absorbs carbon dioxide and moisture from the air and deliquesces. Generates heat when in contact with water.

**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 anhydride. Corrosive to metals such as aluminum, tin and zinc to cause formation of flammable hydrogen gas, moisture.

**Hazardous Decomposition Products:** Oxides of sodium, hydrogen gas, sodium peroxide.

**Hazardous Polymerization:** Will not occur.

### VII PHYSICAL DATA:

**Physical State:** Solid

**Appearance and Odor:** White, odorless

**Melting Point:** 318° C

**Boiling Point:** N/A

**Specific Gravity:** 2.13/gm3

**Vapor Density:** N/A

**Water Solubility:** 1g/0.9ml water (20°C)

**pH:** approx. 13(0.5% soln.)

### VIII PREVENTIVE MEASURES:

**Personal Protection:** Lab coat, safety goggles, rubber gloves.

**Ventilation:** Local exhaust systems.

**Respiratory protection:** use OSHA/MSHA approved respirator.

**Leak and Spill Procedures:** Vacuum or sweep up material and place in a suitable disposal container. Clean up spills immediately. Avoid generating dust. Provide ventilation.

**Waste Disposal:** Follow local state and hazardous waste regulations.

**Other precautions:** Wash thoroughly after handling. Do not allow water to get into the container because of violent reaction. Do not breathe dust, vapor, mist or gas. Do not get in eyes, on skin or on clothing. Keep container tightly closed. Do not ingest or inhale. Use only in chemical fume hood. Discard contaminated shoes.

**Storage Conditions:** Store in a cool, dry place. Keep container closed when not in use. Store in a tightly closed container.

**Label Hazard Warning:** Wear suitable gloves, eye/face protection. Seek medical advice immediately.

**Shipping Information:** Sodium Hydroxide, Solid. Hazard Class: 8, UN 1823, Packing Group: II

### IX PREPARATION OF MSDS:

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## **SODIUM HYDROXIDE, (pellets)**

Prepared By: M.Kierdelewicz (President)

Date Prepared: Jan 6/2012

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.