

# Safety Data Sheet

## 1. Identification

Product Identifier : Lye Crystals **3226-431** **3226-432**  
Recommended Uses : Multi-Purpose Cleaner  
Supplier : Home Hardware Stores Ltd.  
34 Henry Street West  
St. Jacobs, Ontario  
NOB 2N0  
Emergency Telephone : (613) 996-6666 (CANUTEC)

## 2. Hazard Identification

Hazard Statements : Causes severe skin burns and eye damage.  
Precautionary Statements : Wear protective gloves and eye protection/face protection.  
Do not breathe dusts.  
Wash thoroughly after handling.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse.  
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
Immediately call a POISON CONTROL CENTRE or doctor.  
Store locked up.  
Dispose of contents/container according to local, provincial and federal regulations.

## 3. Composition/Information on Ingredients

Hazardous Ingredients :

Chemical Name	CAS Number	Concentration (% w/w)
Sodium hydroxide	1310-73-2	60 – 100

## 4. First Aid Measures

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 CONTROL CENTRE or doctor.

IF ON SKIN (or hair): Wash with plenty of water. Take off contaminated clothing and wash it before reuse. Immediately call a POISON CONTROL CENTRE or doctor.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CONTROL CENTRE or doctor.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CONTROL CENTRE or doctor.

Symptoms of Acute Exposure :

Eye contact :	Burns, redness, watering, pain, loss of vision.
Skin contact :	Severe burns, redness, itching, swelling, damage to underlying tissues.
Ingestion :	Burns, irritation and swelling to mouth, throat and stomach.
Inhalation :	Burns to nose, throat and respiratory tract. Coughing, difficulty breathing and/or shortness of breath.

## 5. Fire Fighting Measures

Suitable Extinguishing Media : As for surrounding fire. Suitable materials include dry chemical, carbon dioxide, and alcohol-resistant foam.

Unsuitable Extinguishing Media : Do not use direct water jet.

Specific Hazards and Combustion Products : Non-combustible. Contact with soft metals forms flammable hydrogen gas. Contact with water releases heat. During fire, gases hazardous to health may be formed.

Protective Equipment and Precautions for Firefighters : As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Move containers from fire area if possible without risk. Keep containers cool with water spray. Collect contaminated fire extinguishing water and other media separately.

## 6. Accidental Release Measures

Personal Precautions : Immediately evacuate personnel to safe areas. Provide adequate ventilation. Wear appropriate personal protective equipment (See Section 8: Exposure controls / Personal protection). Only trained and properly protected personnel must be involved in clean-up operations. Material may create slippery conditions.

Containment and Clean Up : Stop leak if it is safe to do so. Dike spilled material, where possible. Avoid dust formation. Use appropriate tools to put the spilled solid into a suitable closed container for disposal. Avoid dispersal of spilled material or contact with soil or entry into waterways, sewers and drains. Dispose of contents/containers according to local, provincial, and federal regulations. Following product recovery, flush area with water.

## 7. Handling and Storage

Handling : Avoid contact with skin, eyes, and clothing. Use personal protective equipment as required (See Section 8: Exposure controls / Personal protection). Wash thoroughly after handling.

Storage : Keep away from incompatible materials (See Section 10: Stability and Reactivity). Keep away from strong acids, moisture. Store in a cool, dry, well-ventilated place. Keep container tightly closed when not in use. Store locked up.

## 8. Exposure Controls/Personal Protection

Control Parameters :

Chemical Name	CAS Number	Value type	Permissible Concentration	Basis
Sodium hydroxide	1310-73-2	TLV-TWA	2 mg/m <sup>3</sup>	ACGIH

Engineering Controls : Ensure adequate ventilation.

Personal Protection :

Eye/Face : Safety glasses or chemical splash goggles, and face shield.

Skin : Chemical-resistant protective gloves.

Respiratory : If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

Other : Long pants and long sleeved shirt. Rubber boots and rubber apron as necessary.

## 9. Physical and Chemical Properties

Appearance : White, free-flowing beads

Odour : Not available

Odour Threshold : Not available

pH : Not available

Freezing Point : Not available

Boiling Point : Not available

Flash Point : Not available

Evaporation Rate :	Not available
Flammability :	Not available
Lower Flammability Limit :	Not available
Upper Flammability Limit :	Not available
Vapour Pressure :	Not available
Vapour Density :	Not available
Relative Density :	Not available
Solubility :	Complete in water
Partition Coefficient :	Not available
Auto-ignition Temperature :	Not available
Decomposition Temperature :	Not available
Viscosity :	Not available

## 10. Stability and Reactivity

Reactivity :	With incompatible materials. Contact with soft metals forms flammable hydrogen gas. Contact with water releases heat.
Chemical stability :	Chemically stable.
Hazardous reactions :	With incompatible materials. Polymerization not expected to occur.
Conditions to avoid :	Avoid incompatible materials.
Incompatible materials :	Strong acids, soft metals, moisture.
Hazardous decomposition products :	Not applicable.

## 11. Toxicological Information

### Routes of Exposure :

Eye contact :	Causes serious eye damage.
Skin contact :	Causes severe skin burns.
Ingestion :	Causes burns to mouth, throat and stomach.
Inhalation :	Causes burns to nose, throat and respiratory tract.

### Symptoms of Acute Exposure :

Eye contact :	Burns, redness, watering, pain, loss of vision.
Skin contact :	Severe burns, redness, itching, swelling, damage to underlying tissues.
Ingestion :	Burns, irritation and swelling to mouth, throat and stomach.
Inhalation :	Burns to nose, throat and respiratory tract. Coughing, difficulty breathing and/or shortness of breath.

Chronic Effects : None known.

### Calculated Acute Toxicity Estimates

Oral :	2,000 – 2,500 mg/kg
Dermal :	Not available.
Inhalation :	Not available.

## 12. Ecological Information

Not available.

## 13. Disposal Considerations

Dispose of contents/container according to local, provincial and federal regulations.

## 14. Transportation Information

For transportation by road or rail :

TDG Classification :	UN Number:	1823
	Shipping Name :	SODIUM HYDROXIDE, SOLID
	Class :	8
	Subclass :	
	Packing Group :	II
	Limited Quantity :	1 kg or less

## 15. Regulatory Information

Consumer Chemicals and  
Containers Regulations Classification : Corrosive

## 16. Other information

SDS Revision Date : July 18, 2018