

## **1. PRODUCT INFORMATION**

Product name : Sodium Hydroxide  
INCI : Sodium Hydroxide  
Supplier : Windy Point Soap Making Supplies Inc.  
Address : 14, 6125-12<sup>th</sup> Street SE, Calgary, AB T2H 2K1  
Telephone : 587-318-6678  
Emergency Telephone : (800) 225-3924 Canada, USA, Puerto Rico

## **2. HAZARDS IDENTIFICATION**

### **Classification of the substance or mixture**

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS) Corrosive to metals (Category 1), Skin corrosion (Category 1B), Serious eye damage (Category 1), Specific Target Organ Toxicity (Category 3).

### **GHS Label elements, including precautionary statements Pictogram**



### **Signal word**

DANGER

### **Hazard statement(s)**

May be corrosive to metals.

Causes severe skin burns and serious eye damage.

May cause respiratory irritation.

### **Precautionary Statement(s)**

Prevention:

Keep only in original packaging

Do not breathe dust/fume/gas/mist/vapors/spray.

Wash skin thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

Use only outdoors or in a well-ventilated area.

### **Response**

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

Wash contaminated clothing before reuse.

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

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 CENTER or doctor / physician.

#### **Storage**

Store in corrosive resistant container with a resistant inner liner.

Store locked up.

Store in a well-ventilated place. Keep container tightly closed.

#### **Disposal**

Dispose of contents/container in accordance with local/regional/national/international regulations.

#### **Hazards not otherwise classified (HNOC) or not covered by GHS**

None

### **3. COMPOSITION / INFORMATION INGREDIENTS**

#### **Substances**

Synonyms: Caustic Soda

Formula: NaOH

Molecular Weight: 40.00g/mol

CAS-No: 1310-73-2

<b>Chemical Name</b>	<b>%</b>
Sodium Hydroxide	100

### **4. FIRST AID MEASURES**

#### **General advice**

Consult a physician. Show this SDS to the doctor in attendance. Move out of dangerous area.

#### **Eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Consider rinsing eyes during transport to hospital.

#### **Skin contact**

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

#### **Inhalation**

If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a physician.

#### **Ingestion**

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

**Indication of any immediate medical attention and special treatment needed**

No data available.

**5. FIRE FIGHTING MEASURES**

**Suitable Extinguishing Media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special hazards arising from the substance or mixture**

Sodium oxides.

**Advice for firefighters**

Wear self-contained breathing apparatus for firefighting, if necessary.

**Further information**

No data available.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

**Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**Methods and materials for containment and cleaning up**

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

**7. HANDLING AND STORAGE**

**Precautions for safe handling**

Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.

Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2.

**Conditions for safe storage**

Keep container tightly closed in a dry and well-ventilated place.

Storage class (TRGS 510): Non-combustible, corrosive hazardous materials.

**Specific end use(s)**

No other specific uses are stipulated.

**8. EXPOSURE CONTROLS AND PERSONAL PROTECTION**

**Exposure limits**

Component	CAS No.	Value	Exposure limits	Basis
Sodium hydroxide	1310-73-2	TWA	2 mg/m <sup>3</sup>	USA. Occupational Exposure Limits (OSHA) – Table Z-1 Limits for Air Contaminants
		C	2 mg/m <sup>3</sup>	USA. ACGIH Threshold Limit Values (TLV)
		Remarks	Upper Respiratory Tract irritation Eye irritation Skin irritation	
		C	2 mg/m <sup>3</sup>	USA, NIOSH Recommended Exposure Limits

**Exposure controls**

**Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the workday.

**Personal protective equipment**

**Eye/face protection**

Face shield and safety. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU)

**Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Body protection**

Complete suit protecting against chemicals. The type of equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of environmental exposure**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	: White pellets.
Odour	: Odourless.
Odour threshold	: No data available
pH	: 14 at 50 g/l at 20°C (68°F)
Melting point/freezing point	: Melting point/range: 318°C (604°F)- lit
Initial boiling point and range	: 1,390° C (2,534° F)
Flash point	: Not applicable.
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Upper/lower flammability or explosive limits	: No data available
Vapour pressure	: < 24.00 hPa (<18.00 mmHg) at 20° C (68° F) 4.00 hPa (3.00 mmHg) at 37°C (99° F)
Vapour density	: 1.38 – (Air=1.0)
Relative density	: 2.1300 g/cm <sup>3</sup>
Solubility	
Solubility (water)	: ca.1,260 g/l at 20° C (68° F)
Partition coefficient	
(noctanol/water)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
<b>Other Information</b>	
Bulk density	: ca. 1,150 kg/m <sup>3</sup>
Relative vapour density	: 1.38 – (Air = 1.0)

## **10. STABILITY AND REACTIVITY**

### **Reactivity**

No data available.

### **Chemical stability**

Stable under recommended storage conditions.

**Possibility of hazardous reactions**

No data available.

**Conditions to avoid**

No data available.

**Hazardous decomposition products**

Other decomposition products - No data available In the event of fire: see section 5.

**Incompatible materials**

Strong oxidizing agents, strong acids, and organic materials.

**11. TOXICOLOGICAL INFORMATION**

**Information on toxicological effects**

**Acute toxicity**

No data available

Inhalation: No data available

Dermal: No data available

**Skin corrosion/irritation**

Skin – Rabbit

Result: Causes severe burns. - 24 h

**Serious eye damage/eye irritation**

Eyes – Rabbit

Result Corrosive - 24 h

**Respiratory or skin sensitization**

Will not occur.

**Germ cell mutagenicity**

No data available.

**Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity**

No data available

**Specific target organ toxicity – single exposure**

No data available

**Specific target organ toxicity – repeated exposure**

No data available

**Aspiration hazard**

No data available

**Additional Information**

RTECS:WB4900000

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**12. ECOLOGICAL INFORMATION**

**Toxicity**

Toxicity to fish

LC50 – Gambusia affinis (Mosquito fish) – 125 mg/l – 96 h

LC50 – Oncorhynchus mykiss (rainbow trout) – 45.4 mg/l – 96 h

Toxicity to daphnia and other Aquatic invertebrates

Immobilization EC 50 – Daphnia (water flea) – 40.38 mg/l – 48 h

**Persistence and Degradability**

The methods for determining the biological degradability are not applicable to inorganic substances.

**Bioaccumulative Potential**

No data available.

**Mobility in Soil**

No data available.

**Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**Other adverse effects**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life.

**13. DISPOSAL CONSIDERATION**

**Waste treatment methods**

Offer surplus and non-recyclable solutions to a licensed company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator with an afterburner and scrubber.

**Contaminated packaging**

Dispose of as unused product

**14. TRANSPORT INFORMATION**

**DOT**

UN number: 1823

Class: 8

Packing group: II

Proper shipping name: Sodium hydroxide, solid

Reportable Quantity (RQ): 1000 lbs

**IATA**

UN number: 1823

Class: 8

Packing group: II

Proper shipping name: Sodium hydroxide, solid

**IMDG**

UN number: 1823

Class: 8

Packing group: II

Proper shipping name: Sodium hydroxide, solid

**15. REGULATORY INFORMATION**

**SARA 302 Components**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302

**SARA 313 Components**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards**

Acute Health Hazard

**Massachusetts Right to Know Components**

CAS-No. 1310-73-2

Sodium hydroxide

Revision Date 2007-03-01



**Pennsylvania Right to Know Components**

CAS-No. 1310-73-2

Sodium hydroxide

Revision Date 2007-03-01

**New Jersey Right to Know Components**

CAS-No. 1310-73-2

Sodium hydroxide

Revision Date 2007-03-01

**California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**16. OTHER INFORMATION**

**NFPA Ratings**

Health Hazard: 3

Flammability: 0

Chronic Health Hazard:

Physical hazard: 0

**HMIS Rating**

Health: 3

Flammability: 0

Reactivity: 0

**DISCLAIMER AND CAUTION**

Please refer to all relevant technical information specific to the product, prior to use. The information contained in this document is obtained from current and reliable sources. Windy Point Soap Making Supplies Inc. provides the information contained herein but makes no representation as to its comprehensiveness or accuracy. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose. The user of the product is solely responsible for compliance with all laws and regulations applying to the use of the products, including intellectual property rights of third parties. As the ordinary or otherwise use(s) of this product is outside the control of Windy Point Soap Making Supplies Inc., no representation or warranty, expressed or implied, is made as to the effect(s) of such use(s), (including damage or injury), or the results obtained. The liability of Windy Point Soap Making Supplies Inc. is limited to the value of the goods and does not include any consequential loss. Windy Point Soap Making Supplies Inc. shall not be liable for any errors or delays in the content, or for any actions taken in reliance thereon. Windy Point Soap Making Supplies Inc. shall not be responsible for any damages resulting from use of or reliance upon this information. In the event of any dispute, the Customer hereby agree that Jurisdiction is limited to the province of Alberta.