

# G.J. CHEMICAL COMPANY, INC. SAFETY DATA SHEET

## 1. PRODUCT IDENTIFIER

1.1 PRODUCT NAME:-----> **Sodium Hydroxide 50% Solution**  
(All Grades)

PRODUCT NUMBER(S):-----> 122200, 189900, 253100

TRADE NAMES/SYNONYMS-----> Caustic Soda 50%, Lye Solution, Sodium Hydrate Solution, White Caustic Solution

### 1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

**RECOMMENDED USE:** Industrial: Manufacture of substances, Ion exchange resins, Process aid in plastics and paper industry, Process aid in manufacture of pharmaceuticals, Leather process, Cleaning products, pH regulation, monomer for synthesis of ethyl cellulose, Laboratory Chemicals.

**USES ADVISED AGAINST:** No information available

### 1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Company: **G.J. CHEMICAL CO., INC.**

Address: **40 VERONICA AVENUE  
SOMERSET, NJ 08873**

Telephone: **1-973-589-1450**

Fax: **1-973-589-3072**

### 1.4 Emergency Telephone Number

Emergency Phone: **1-800-424-9300 (CHEMTREC)**

## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

GHS Classification in accordance with 29CFR 1910 (OSHA HCS)

GHS Classification

Corrosive to metals (Category 1), H290

Skin corrosion (Category 1A), H314

Serious eye damage (Category 1), H318

Acute aquatic toxicity (Category 3), H402

### 2.2 GHS Label elements, including precautionary statements



Pictogram

GHS05

Signal word           **DANGER**

**Hazard statement(s)**

H290 May be corrosive to metals.  
H314 Causes severe skin burns and eye damage.  
H318 Causes serious eye damage.  
H402 Harmful to aquatic life.

**Precautionary statement(s)**

**Prevention:**

P234 Keep only in original container.  
P260 Do not breathe dust or mist.  
P264 Wash skin thoroughly after handling.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.  
P305 + P351 + P338 + P310 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 CENTER or doctor/ physician.  
P363 Wash contaminated clothing before reuse.  
P390 Absorb spillage to prevent material damage.

**Storage:**

P405 Store locked up.  
P406 Store in corrosive resistant stainless steel container with a resistant inner liner.

**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

### 3. INGREDIENTS

#### 3.1 SUBSTANCE:

| Ingredient       | CAS No.   | % by WT.<br>Range | CLASSIFICATION   |
|------------------|---|-------------------|--|
| Sodium Hydroxide | 1310-73-2<br>EC-No.215-185-5<br>Index-No.011-002-00-6<br>Reg.-No. 01-2119457892-27-XXXX | 51.5              | Corrosive to metals (Category 1), H290<br>Skin corrosion (Category 1A), H314<br>Serious eye damage (Category 1), H318<br>Acute aquatic toxicity (Category 3), H402 |

|                 |   |       |  |
|-----------------|---|-------|--|
| Water           | 7732-18-5<br>EC-No.231-791-2  | 48.5  | Not a hazardous substance or mixture.  |
| Sodium Chloride | 7647-14-5<br>EC-No.231-598-3<br>Reg.-No. 01-2119485491-33-XXXX                          | 0-1.3 | Not a hazardous substance or mixture   |
| Sodium Chlorate | 7775-09-9<br>EC-No.231-887-4<br>Index-No.017-005-00-9<br>Reg.-No. 01-2119474389-23-XXXX | 0-0.3 | Oxidizing solids (Category 1), H271<br>Acute toxicity, Oral (Category 4), H302<br>Acute aquatic toxicity (Category 2), H401<br>Chronic aquatic toxicity (Category 2), H411 |

3.2 MIXTURE: Not applicable.

#### 4. FIRST-AID MEASURES

##### 4.1 DESCRIPTION OF FIRST AID MEASURES:

**INHALATION: Sodium Hydroxide, 50% Solution**

**\*\*FIRST AID-** Remove to fresh air. If not breathing give artificial respiration. Keep warm and quiet. Get medical attention immediately.

**EYE CONTACT (Splash): Sodium Hydroxide, 50% Solution**

**\*\*FIRST AID-** Immediately flush eyes with water for 15 minutes, holding eyelids apart to ensure flushing. Washing eyes within several seconds is essential to achieve maximum effectiveness. Remove contact lenses, if worn, after initial rinse. Take to a physician.

**SKIN CONTACT (Splash): Sodium Hydroxide, 50% Solution**

**\*\*FIRST AID-** Wash affected area with soap and water for 15 minutes. Remove contaminated clothing and shoes. Consult a physician if irritation persists.

**INGESTION: Sodium Hydroxide, 50% Solution**

**\*\*FIRST AID-** Patient should be made to drink large amounts of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician or poison control center, treat symptomatically.

**4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED**  
**Eyes:** Causes severe burns that result in damage to the eyes.

**Skin:** Corrosive to all body tissues with which it comes in contact. The effect of local dermal exposure may consist of multiple areas of superficial destruction of the skin or of primary irritant dermatitis.

**Inhalation:** Inhalation of dust, spray, or mist may result in varying degrees of irritation or damage to the respiratory tract.

Also may cause lung tissue damage, which could produce chemical pneumonia.  
**Ingestion:** Causes severe burns to mucous membranes of the mouth, throat, esophagus, and stomach.

**Chronic:** None Known

**Medical Conditions Aggravated by Exposure:** Skin contact may aggravate an existing dermatitis.

#### 4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:

**Human dermal exposure:** Regardless of concentrations, the severity of damage and extent of its irreversibility increases with length of contact time. Prolonged contact with sodium hydroxide solutions of >1% can cause a high degree of tissue destruction.

### 5. FIRE FIGHTING MEASURES

Flash Point: N/A

LEL %:N/A

UEL %:N/A

**5.1 SUITABLE EXTINGUISHING MEDIA:** Foam--> x CO2--> x Dry Chemical--> x Water-fog--> x Other-->

Unsuitable extinguishing media: Do not use waterjet.

#### 5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR

**MIXTURE:** Direct contact with water can cause a violent exothermic reaction. See reactivity section.

**CONDITIONS OF FLAMMABILITY:** Not flammable or combustible.

**HAZARDOUS COMBUSTION PRODUCTS:** Carbon Oxides and Sodium oxides

**5.3 ADVICE FOR FIREFIGHTERS:** Shut off source. Water fog may be used to cool closed containers to prevent pressure build up. Wear full protective clothing including NIOSH/MSHA approved positive pressure self-contained breathing apparatus (SCBA) for confined spaces. Avoid direct contact of this product with water as this can cause a violent exothermic reaction.

### 6. ACCIDENTAL RELEASE MEASURES

#### 6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

Wear respiratory protection (see Section 8). Avoid dust formation. Minimize breathing dusts and skin contact, ventilate confined areas, open all windows and doors, assure conformity with applicable government

regulations. Keep all nonessential people away.

## **6.2 ENVIRONMENTAL PRECAUTIONS:**

Keep out of water sources, drains and sewers. Do not flush into surface water or sanitary sewer system.

## **6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:**

Methods for cleanup and containment:

Shut off valves, contain spill, prevent accumulation of dust, keep-out of water sources and sewers. Neutralize remaining traces with any dilute inorganic acid, e.g. Hydrochloric Acid. The spill area should then be flushed with water followed with a liberal covering of sodium bicarbonate.

Methods for disposal:

All clean up material should be removed and placed in approved containers. Spills in dirt or sand may be handled by removing the affected soil and placing in approved containers.

**REPORTABLE QUANTITY (RQ):** Sodium Hydroxide – 1000lbs.

Solution 50% - 2000lbs.

The Superfund Amendments and Reauthorization Act (SARA) Section 304 requires that a release equal to or greater than the reportable quantity for this substance be immediately reported to the local emergency planning committee and the state emergency response commission (40 CFR 355.40). If the release of this substance is reportable under CERCLA Section 103, the national response center must be notified immediately at (800) 424-8882 or (202) 426-2675 in the metropolitan Washington, D. C. area (40 CFR 302.6).

**6.4 REFERENCE TO OTHER SECTIONS:** See Sections 8 and 13.

## **7. HANDLING AND STORAGE**

**7.1 PRECAUTIONS FOR SAFE HANDLING:** Wear personal protective equipment as described in Section 8. Avoid breathing vapors in top of shipping container. Use with adequate ventilation. Use non-sparking tools to open or close containers. Avoid work practices that may release volatile components in the atmosphere. Avoid contaminating soil or releasing material into sewage and drainage systems.

**7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:**

Store large quantities only in buildings designed to comply with OSHA 1910.106. Keep containers tight and upright to prevent leakage. Recommended storage temperature: 15 - 25°C. Do not store with incompatible materials. Keep containers closed when not in use. Storage class (TRGS 510): 8B: Non-combustible, corrosive hazardous materials

**SPECIAL MIXING INSTRUCTIONS:** Considerable heat is generated when product is mixed with water. Never add water to product. Always add product, with constant stirring, slowly to surface of lukewarm (80-100°F) water. Add product very gradually while stirring constantly. Product can react explosively with acids, aldehydes, and many other organic chemicals.

**CONTAINER WARNINGS:** Empty containers release residue and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, or expose such containers to heat, sparks, static electricity or other sources of ignition. Do not attempt to clean. "Empty" drums should be completely drained, properly bunged and promptly returned to a drum re-conditioner. Do not store in aluminum container or use aluminum fittings or transfer lines, as flammable hydrogen gas can be generated.

**7.3 SPECIFIC END USES:** Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

**8. EXPOSURE CONTROL (PERSONAL PROTECTION)**

**8.1 CONTROL PARAMETERS:**

| Ingredient       | CAS No.   | % by WT. Range | Exposure Limits   |
|------------------|---|----------------|---|
| Sodium Hydroxide | 1310-73-2<br>EC-No.215-185-5<br>Index-No.011-002-00-6<br>Reg.-No. 01-2119457892-27-XXXX | 51.5           | 2mg/m3 TWA (ACGIH)<br>2mg/m3 TWA (OSHA)<br>2mg/m3 TWA (NIOSH) |
| Water            | 7732-18-5<br>EC-No.231-791-2  | 48.5           | N.E.  |
| Sodium Chloride  | 7647-14-5<br>EC-No.231-598-3<br>Reg.-No. 01-2119485491-33-XXXX                          | 0-1.3          | N.E.  |
| Sodium Chlorate  | 7775-09-9<br>EC-No.231-887-4<br>Index-No.017-005-00-9<br>Reg.-No. 01-2119474389-23-XXXX | 0-0.3          | N.E.  |

Key: (PEL) = Permissible Exposure Limit OSHA  
 (TLV) = Threshold Limit Value OSHA & ACGIH  
 (STEL) = Short Term Exposure Limit ACGIH  
 (WEEL) = USA. Workplace Environmental Exposure Levels  
 (TWA) = Time Weighted Average  
 CAS = Chemical Abstracts Registry Number  
 IDLH = Immediate Danger to Life and Health  
 N.E. =None Established

**8.2 EXPOSURE CONTROLS**

**EXPOSURE GUIDELINES:** Consider the potential hazards of this material (Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended.

**ENGINEERING CONTROLS:** Provide general dilution or local exhaust ventilation in volume and pattern to keep concentrations within permitted exposure limits. All areas should be ventilated in accordance with OSHA Regulation 29 CFR Part 1910. Explosion proof motors should be used in mechanical ventilation.

**RESPIRATORY PROTECTION:** The specific respirator selected must be based on contamination levels found in the work place, must not exceed the working limits of the respirator and be jointly approved by the National Institute for Occupational Safety and Health and the Mine Safety and Health Administration (NIOSH-MSHA):

For vapor/mist concentrations in excess of ACGIH TWA an air supplied NIOSH/MSHA approved respirator with full face-piece and dust, fume and mist filter where dusts and mists may occur. For nuisance exposures use type N100 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH.

**BODY CLOTHING:** Use chemical resistant apron or other impervious clothing. Remove and wash contaminated clothing before reuse.

**SKIN PROTECTION:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

**HYGIENE:** Use good personal hygiene practices, wash hands before eating, drinking, smoking or using toilet facilities.

**EYE/FACE PROTECTION**> Use safety eyewear with splash guards or face shield. A safety shower and eyewash should be easily accessible to the work area.

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

### **9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:**

#### **Sodium Hydroxide 50% Solution**

|   |                                  |
|---|----------------------------------|
| Appearance----->                            | Liquid                           |
| Color----->                                 | Colorless                        |
| Odor----->                                  | Odorless                         |
| Odor Threshold----->                        | No data available                |
| pH----->                                    | 14                               |
| Molecular weight----->                      | No data available                |
| Melting/Freezing Point----->                | -12 - -10°C (10 - 50°F)          |
| Boiling Range ( °F)----->                   | 105 - 140 °C (221-284°F)@760mmHg |
| Specific Gravity----->                      | 1.515@25°C (77°F)                |
| Vapor Pressure----->                        | <18mmHg@20°C (68°F)              |
| Vapor Density (air=1)----->                 | 1.38                             |
| Water solubility----->                      | Soluble                          |
| Partition Coefficient N-Octanol/water-----> | No data available                |
| Evaporation Rate (Butyl Acetate=1)----->    | No data available                |
| Flash Point----->                           | No data available                |
| Upper Flammability Limit----->              | No data available                |
| Lower Flammability Limit----->              | 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                |
| 9.2 Other information----->                 | No data available                |

## **10. STABILITY AND REACTIVITY INFORMATION**

**10.1 REACTIVITY:** No data available.

**10.2 CHEMICAL STABILITY:** Unstable ( ) Stable (X)

**10.3 CONDITIONS TO AVOID:** Heat, Sparks, Pilot Lights, Static Electricity, and Open Flame.

**HAZARDOUS POLYMERIZATION:** May occur ( ) Will not occur (X)

**10.4 POSSIBILITY OF HAZARDOUS REACTIONS:** Production of hydrogen on contact with metals.



**10.5 INCOMPATIBLE MATERIALS:** Avoid direct contact with water. This product may be added slowly to water or acids with dilution and agitation to avoid a violent exothermic reaction. Avoid contact with aluminum, zinc, tin and alloys containing these metals. Do not mix with strong acids without dilution and agitation. In addition avoid contact with leather, wool, acids, organic halogen compounds, organic nitro compounds, with nitro-methane and other similar nitro compounds causes formation of shock-sensitive salts.

**10.6 HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon Oxides and Sodium Oxides

## **11. TOXICOLOGICAL INFORMATION**

### **11.1 INFORMATION ON TOXICOLOGICAL EFFECTS:**

Routes of Entry: Inhalation--> x Skin--> x Ingestion--> x Eye--> x

#### **ACUTE HEALTH EFFECTS:**

Effects of overexposure:

**Eyes>** Causes severe burns that result in damage to the eyes.

**Skin>** Corrosive to all body tissues with which it comes in contact. The effect of local dermal exposure may consist of multiple areas of superficial destruction of the skin or of primary irritant dermatitis.

**Inhalation>** Inhalation of dust, spray, or mist may result in varying degrees of irritation or damage to the respiratory tract.  
Also may cause lung tissue damage, which could produce chemical pneumonia.

**Ingestion>** Causes severe burns to mucous membranes of the mouth, throat, esophagus, and stomach.

**Chronic:** None Known

**Medical Conditions Aggravated by Exposure>** Skin contact may aggravate an existing dermatitis.

#### **ACUTE TOXICITY:**

The effects of overexposure shown in Section II are based on acute toxicity profiles. Typical values are:

| Ingredient       | Oral LD50 (Rat) | Skin LD50(Rabbit) | Inhalation LC50 |
|------------------|-----------------|-------------------|-----------------|
| Sodium Hydroxide | 140-340mg/kg    | 1350mg/kg         |                 |
| Sodium Chloride  | 3550mg/kg       | >10000mg/kg       | >42000mg/m3/1h  |
| Sodium Chlorate  | 1200mg/kg       | >10000mg/kg       | 28000mg/m3/1hr  |

**Sodium hydroxide solid -**

**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**

**MUTAGENIC EFFECTS: No data available**

**CARCINOGEN STATUS:**

**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.**

**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 (Globally Harmonized System)  
no data available**

**Specific target organ toxicity - repeated exposure (Globally Harmonized System)  
no data available**

**ASPIRATION HAZARD: No data available**

**11.2 ADDITIONAL INFORMATION: Burning sensation, Cough, wheezing, laryngitis, Shortness of breath, spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin.**

**RTECS: WB490000**

## 12. ECOLOGICAL INFORMATION

### DANGEROUS TO AQUATIC LIFE IN HIGH CONCENTRATIONS

May be dangerous if it enters water intakes.

Notify local health and pollution control officials.

Notify operators of nearby water intakes.

### For Sodium Hydroxide Solid

#### 12.1 AQUATIC TOXICITY:

Toxicity to fish:

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

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

Toxicity to daphnia and other aquatic invertebrates:

EC50 - *Daphnia* (water flea) - 40.38 mg/l - 48 h - Immobilization

The damaging effects are mostly a consequence of the increase in pH. The upper pH limit tolerated by most freshwater fish is 8.4; the pH must generally be greater than 9 before the aqueous environment becomes lethal for fully developed fish. Freshwater algae are destroyed above pH 8.5. Concentrations of 20 to 100 mg/L have been reported to kill salmon, trout, carp and crayfish.

12.2 PERSISTENCE AND DEGRADABILITY: The pH effect of sodium hydroxide in water is naturally reduced by the absorption of atmospheric carbon dioxide. This reduction is also effected by dilution with water and by the natural acidity of a given body of water. There is no degradation of sodium hydroxide in waters, only loss by absorption or chemical neutralization.

12.3 BIOACCUMULATIVE POTENTIAL: Due to its high water solubility, sodium hydroxide is not expected to bio-accumulate.

Biological Oxygen Demand (BOD): No data available

12.4 MOBILITY IN SOIL: No data available

#### 12.5 RESULTS OF PBT AND vPvB:

PBT assessment results: This substance is not classified as PBT or vPvB.

12.6 OTHER ADVERSE EFFECTS: Harmful to aquatic life.

## 13. DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS: Hazard characteristic and regulatory waste stream classification can change with product use. Accordingly it is the responsibility of the user to determine the proper storage, transportation, treatment and or disposal methodologies for spent materials and residues at time

of disposition. Dispose in accordance with all applicable disposal regulations. Incinerate under controlled conditions in a permitted facility. IF WASTE IS NEUTRALISED ON SITE BE AWARE THAT A VIGOROUS AND EXOTHERMIC REACTION MAY OCCUR.

**CONTAMINATED PACKAGING:** Dispose of as unused product.

**DISPOSAL MUST BE IN ACCORDANCE WITH STANDARDS APPLICABLE TO GENERATORS OF HAZARDOUS WASTE, 48 CFR 262**

## **14. TRANSPORT INFORMATION**

### **Land Transport (DOT)**

- 14.1 USDOT ID Number-----> UN1824
- 14.2 USDOT Shipping Name-----> Sodium Hydroxide, Solution
- 14.3 USDOT Hazard Classification-----> 8 (Corrosive)  
    USDOT Label Codes-----> 8
- 14.4 USDOT Package Code-----> II
- 14.5 Marine Pollutant-----> No
- 14.6 Special precautions for user-----> Yes  
    Emergency Response Guide-----> 154  
    Reportable Quantity-----> 2000lbs. Solution

### **Sea Transport (IMDG)**

- 14.1 ID Number-----> UN1824
- 14.2 Proper shipping name-----> SODIUM HYDROXIDE, SOLUTION
- 14.3 Hazard Classification-----> 8 (Corrosive)  
    Label Codes-----> 8
- 14.4 Package Code-----> II
- 14.5 Marine Pollutant-----> No
- 14.6 Special precautions for user-----> Yes  
    EMS-Number-----> F-A, S-B

### **Air Transport (IATA)**

- 14.1 ID Number-----> UN1824
- 14.2 Proper shipping name-----> Sodium hydroxide, Solution
- 14.3 Hazard Classification-----> 8 (Corrosive)  
    Label Codes-----> 8
- 14.4 Package Code-----> II
- 14.5 Environmental hazard-----> No
- 14.6 Special precautions for user-----> Yes

## **15. REGULATORY INFORMATION**

**15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION  
SPECIFIC FOR THE SUBSTANCE OR MIXTURE:**

**SARA TITLE III (Superfund Amendment and Reauthorization Act)**

**SECTION 302 AND 304: Extremely Hazardous Substance List (40 CFR 355) - Not Listed**

**SECTION 313: Toxic Chemicals Listing (40 CFR 372.65) - Not Listed**

**SECTION 311/312: Hazard Categorization (40 CFR 370) - Acute Health Hazard, Reactive Hazard**

**CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act)**

**SECTION 102(A) Hazardous Substances (40 CFR 302.4) - Listed**

**Sodium Hydroxide CAS 1310-73-2**

**Reportable Quantity - 2,000 lbs. solution**

**SECTION 101(14) Reportable Quantity: 2,000 lbs. solution**

**Massachusetts Right to Know Components**

**Sodium hydroxide CAS-No.1310-73-2**

**Sodium Chlorate CAS-No.7775-09-9**

**Pennsylvania Right to Know Components**

**Sodium hydroxide CAS-No.1310-73-2**

**Water CAS-No.7732-18-5**

**Sodium Chloride CAS-No.7647-14-5**

**Sodium Chlorate CAS-No.7775-09-9**

**New Jersey Right to Know Components**

**Sodium hydroxide CAS-No.1310-73-2**

**Water CAS-No.7732-18-5**

**Sodium Chloride CAS-No.7647-14-5**

**Sodium Chlorate CAS-No.7775-09-9**

**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.**

**TSCA (Toxic Substance Control Act)**

Water CAS-No.7732-18-5, Sodium hydroxide CAS-No.1310-73-2, Sodium Chloride CAS-No.7647-14-5, and Sodium Chlorate CAS-No. 7775-09-9 are listed on the TSCA Inventory.

**For Sodium Hydroxide Solid**

**International Inventories:**

| <b><u>Country or Region</u></b>               | <b><u>Inventory Name</u></b>   | <b><u>On inventory yes/no</u></b> |
|---|--|-----------------------------------|
| <b><u>Australia</u></b>                       | Australian Inventory of Chemical Substances (AICS)                     | Yes                               |
| <b><u>Canada</u></b>                          | Domestic Substances List (DSL)   | Yes                               |
| <b><u>Canada</u></b>                          | Non-Domestic Substances List (NDSL)                                    | No                                |
| <b><u>China</u></b>                           | Inventory of Existing Chemical Substances in China (IECSC)             | Yes                               |
| <b><u>Europe</u></b>                          | European Inventory of Existing Commercial Chemical Substances (EINECS) | Yes                               |
| <b><u>Europe</u></b>                          | European List of Notified Chemical Substances (ELINCS)                 | No                                |
| <b><u>Japan</u></b>                           | Inventory of Existing and New Chemical Substances (ENCS)               | Yes                               |
| <b><u>Japan</u></b>                           | Industrial Safety & Health Law Inventory (ISHL)                        | Yes                               |
| <b><u>Korea</u></b>                           | Existing Chemicals List (ECL)  | Yes                               |
| <b><u>Mexico</u></b>                          | National Inventory of Chemical Substances (INSQ)                       | Yes                               |
| <b><u>New Zealand</u></b>                     | New Zealand Inventory  | Yes                               |
| <b><u>Philippines</u></b>                     | Philippine Inventory of Chemicals and Chemical Substances (PICCS)      | Yes                               |
| <b><u>Switzerland</u></b>                     | Inventory of Notified New Substances (CHINV)                           | Yes                               |
| <b><u>Taiwan</u></b>                          | National Existing Chemical Inventory (NECI)                            | Yes                               |
| <b><u>United States &amp; Puerto Rico</u></b> | Toxic Substances Control Act Inventory                                 | Yes                               |

**15.2 CHEMICAL SAFETY ASSESSMENT: A chemical safety assessment has been carried out for this substance.**

**16. OTHER INFORMATION:**

**HMIS** (Hazardous Materials Identification System)

**Hazard Rating:**

**4-Extreme**

**3-High**

**2-Moderate**

**1-Slight**

**0-Insignificant**

**NFPA RATINGS (SCALE 0-4): Health=3 Fire=0 Reactivity=1**  
**HMIS RATINGS (SCALE 0-4): Health=3 Fire=0 Reactivity=2 PPE=G**

**Hazard statement(s) from Section 2 and 3:**

**H290 May be corrosive to metals.**

**H314 Causes severe skin burns and eye damage.**

**H318 Causes serious eye damage.**

**H402 Harmful to aquatic life.**

**Date of preparation-----> March 1, 2005**

**Revision Number-----> 1.5**  
**Revision Content-----> General update all sections**  
**Revision Date-----> October 19, 2018**  
**Prepared by-----> T. G Fenstermaker, Jr.**

**Acronyms:**

|        |   |   |
|--------|---|---|
| ACGIH  | - | American Conference of Governmental Industrial Hygenists          |
| AIHA   | - | American Industrial Hygiene Association                           |
| ANSI   | - | American Nation Standards Institute                               |
| API    | - | American Petroleum Institute                                      |
| CERCLA | - | Comprehensive Emergency Response, Compensation, and Liability Act |
| DOT    | - | U.S. Department of Transportation                                 |
| EPA    | - | U.S. Environmental Protection Agency                              |
| HMIS   | - | Hazardous Materials Information System                            |
| IARC   | - | International Agency For Research On Cancer                       |
| MSHA   | - | Mine Safety and Health Administration                             |
| NFPA   | - | National Fire Protection Association                              |
| NIOSH  | - | National Institute of Occupational Safety and Health              |
| NOIC   | - | Notice of Intended Change (Proposed change to ACGIH TLV)          |
| NTP    | - | National Toxicology Program                                       |
| OPA    | - | Oil Pollution Act of 1990   |
| OSHA   | - | U.S. Occupational Safety & Health Administration                  |
| PEL    | - | Permissible Exposure Limit (OSHA)                                 |
| RCRA   | - | Resource Conservation and Recovery Act                            |
| REL    | - | Recommended Exposure Limit (NIOSH)                                |
| SARA   | - | Superfund Amendments and Reauthorization Act of 1986 Title III    |
| SCBA   | - | Self-Contained Breathing Apparatus                                |
| STEL   | - | Short-Term Exposure Limit (generally 15 minutes)                  |
| TLV    | - | Threshold Limit Value   |
| TSCA   | - | Toxic Substances Control Act                                      |
| TWA    | - | Time Weighted Average (8hr.)                                      |
| WHMIS  | - | Canadian Workplace Hazardous Materials Information System         |

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