



Hummel Croton Inc.  
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In Case Of Emergency Call  
(U.S.) 800-424-9300  
(International) +1-813-248-3924

## Sodium Hydroxide Safety Data Sheet

### 1. Product and Company

Product name: Sodium Hydroxide  
Synonym: Caustic Soda, Soda Lye  
CAS-No.: 1310-73-2  
Company: Hummel Croton Inc.  
10 Harmich Rd.  
South Plainfield, NJ 07080  
Telephone: 908-754-1800  
Fax: 908-754-1815

HMIS Rating	
Health	3
Flammability	0
Reactivity	1
Personal Protection	E

Emergency telephone number

Emergency Phone #: Chemtrec US: 800-424-9300  
ChemTel International: +1-813-248-0585

### 2. Hazards

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

#### GHS Label elements

Pictogram(s)



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)

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

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

None

**3. Composition/Ingredients**

**Substance**

Formula: NaOH  
 Molecular weight: 40.00 g/mol  
 CAS-No.: 1310-73-2

Material	CAS	%	OSHA	ACGIH
Sodium Hydroxide	1310-73-2	100%	2 mg/m <sup>3</sup> ceiling	2 mg/m <sup>3</sup> ceiling

**4. First Aid**

**First Aid For Eye:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

**First Aid For Skin:** In case of contact, flush skin with water. Wash clothing before reuse. Call a physician if irritation occurs.

**First Aid For Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

**First Aid For Ingestion:** If swallowed, call a physician immediately.

**5. Fire Data**

Flammability: Non-Flammable  
Flash Point: Not Applicable  
Auto Ignition: Not Applicable  
Flammable Limits: Not Applicable  
Extinguishing Media: Dry chemical powder  
Fire Fighting Procedure: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.  
Fire/Explosion Hazards: Emits toxic fumes under fire conditions.

## **6. Accidental Release**

Spill Or Leak Procedures: Utilize recommended protective clothing and equipment. Clean spills in a manner that does not disperse dust into the air. Spill area can be washed with water. Collect wash water for approved disposal. Keep from entering water or ground water.

## **7. Handling And Storage**

Storage Temperatures: Store at ambient temperature.  
Shelf Life: Unlimited in tightly sealed container  
Special Sensitivity: None  
Handling/Storage Precautions: Avoid breathing dust. Avoid getting in eyes or on skin. Wash thoroughly after handling. Store in a dry place away from direct sunlight, heat and incompatible materials. Reseal containers immediately after use. Store away from food or beverages.

## **8. Exposure Controls/Personal Protection**

Eye Protection: Safety glasses or goggles.  
Skin Protection: PVC gloves with impervious boots, apron or coveralls. Wash hands and face before eating, drinking or using tobacco.  
Respirator: Work ambient concentrations should be monitored and if the recommended exposure limit is exceeded, a NIOSH/MSHA approved dust respirator must be worn.  
Ventilation: Use local ventilation if dusting is a problem, to maintain air levels below the recommended exposure limit.  
Additional Measures: Emergency showers and eye wash stations should be available. Educate and train employees in the safe handling of hazardous chemicals.

## **9. Physical And Chemical Properties**

Physical Form: Flakes or beads  
Color: White  
Odor: Odorless  
Molecular Weight: 40.00 g/mol  
Boiling Point: 1390°C  
Melting/Freezing Point: 318°C  
Solubility In Water: 42 g/mL @0°C  
Specific Gravity: 1.86

## 10. Stability And Reactivity

Stability: Stable

Hazardous Polymerization: Will not occur.

Incompatibilities: Strong acids. Absorbs carbon dioxide from the air. When dissolved in water an exothermic reaction will occur.

Instable Conditions: Excessive temperatures (see incompatibilities).

Decomposition Temperature: Not known.

Decomposition Products: Not known.

## 11. Toxicological Information

RTECS Number: WB4900000

Routes of Exposure: Eye contact. Ingestion. Inhalation. Skin contact.

Toxicity Data: Ipr-Mus LD50: 40 mg/kg

Irritation Data: Eye-Mky 1%/24h sev Skn-Rbt 500 mg/24h sev Eye-Rbt 400 ug mld

Chronic Toxic Effects: This product has no known chronic effects. Repeated or prolong exposure to this compound is not known to aggravate medical conditions.

Acute Toxic Effects: Harmful if swallowed, inhaled, or absorbed through skin. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes and skin. Inhalation may be fatal as a result of spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting.

## 12. Ecological Information

Ecotoxicity: Not available at this time.

## 13. Disposal Considerations

Waste Disposal Method: Waste disposal should be in accordance with existing federal, state and local environmental regulations.

## 14. Transportation Information

Proper Shipping Name: Sodium Hydroxide, Solid

UN Number: 1823

Class: 8

P.G.: II

Label Code: 8

## 15. Regulatory Information

OSHA Status: This product is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

TSCA Chemical Inventory: This compound is on the EPA Toxic Substance Control Act (TSCA) Inventory List

California Proposition 65: To the best of our knowledge, this product contains no levels of listed substances which the state of California has found to cause cancer, birth defects, or other reproductive effects.

SARA 313 Title III:

Section 320 Extremely Hazardous Substances: None

Section 311/312 Hazardous Categories: None

Section 313 Toxic Chemicals: None

## **16. Other Information**

Prepared By: Michael Richard

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Reason For Issue: Emergency Contact Update

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