
Section 1. Supplier Information

CMI Chemical Corporation
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(248) 587-5600
Emergency Telephone: 1-800-424-9300

Section 2. Hazardous Ingredients

| <u>Hazardous Component(s)</u> | <u>CAS #</u> | <u>PEL TWA</u> | <u>PEL Ceiling</u> | <u>TLV TWA</u> | <u>TLV STEL</u> | <u>MFG Limits</u> | <u>WGT %</u> |
|-------------------------------|--------------|----------------|--------------------|----------------|-----------------|-------------------|--------------|
| Sodium hydroxide | 1310-73-2 | 2 mg/m3 | N/E | N/E | C 2 mg/ | N/E | 10 - 20 |

N/A = Not Applicable; N/E = Not Established; * = Mists; # = Skin; ' = Respirable Dust; " = Total Dust; ^ = Vapor; ** = Fumes; C = Ceiling Limit

All components of this product are listed on the Toxic Substances Control Act (TSCA) Inventory and the Canadian Domestic Substances List (DSL), or are exempt from the listing.

Section 3. Hazards Identification

Primary Routes of Entry

Inhalation: YES
Skin: YES
Ingestion: YES

Hazardous Materials Information System (HMIS) Ratings

| | | |
|-------------|-----|--------------------|
| Health: | * 2 | 0 = Minimal |
| Fire: | 0 | 1 = Slight |
| Reactivity: | 0 | 2 = Moderate |
| | | 3 = Serious |
| | | 4 = Severe |
| | | * = Chronic Hazard |

Signs of Symptoms of Exposure:

INHALATION: Exposure to mists may cause coughing, sneezing, and other symptoms of respiratory tract irritation. Overexposure may result in lung tissue damage due to corrosive effects.

SKIN: Can be a severe skin irritant. May be corrosive and cause severe burns if not washed immediately.

EYES: This product is destructive to eye tissues on contact. Will cause severe burns that result in damage to the eyes and even blindness.

INGESTION: This product, if swallowed, can cause severe burns and complete tissue perforation of mucous membranes of the mouth, throat, esophagus, and stomach.

Chemical Listed as Potential Carcinogens:

NTP: NO

IARC: NO

OSHA: NO

Target Organs: Eyes, skin, and respiratory system.

Section 4. Emergency And First Aid Procedures

INHALATION: If adverse effects such as dizziness, nausea, or irritation are noted, move person

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to fresh air. If not breathing, give artificial respiration. Get medical attention!

SKIN: Immediately wash skin with large amounts of soap and water. Remove contaminated clothing and shoes; wash before reuse. Get medical attention if irritation persists after washing.

EYES: THE OBJECT IS TO FLUSH MATERIAL OUT IMMEDIATELY, THEN SEEK MEDICAL ATTENTION! Immediately flush eyes with large amounts of water for at least 15 minutes, holding lids apart to ensure flushing of the entire surface. Washing eyes within several seconds is essential to achieve maximum effectiveness. SEEK MEDICAL ATTENTION IMMEDIATELY!

INGESTION: DO NOT INDUCE VOMITING! Contact a physician immediately!

Section 5. Fire Fighting Measures

Flash Point: N/A

Method Used: N/A

Flammable Limits in Air % by Volume: LEL: N/E UEL: N/E

Extinguisher Media: Water, dry chemical, carbon dioxide, or foam (alcohol type).

Special Fire Fighting Procedures: Firefighters should wear a self-contained breathing apparatus with a full facepiece operated in pressure demand or other positive pressure mode, and protective clothing.

Unusual Fire And Explosion Hazards: Contact with metals may produce flammable hydrogen gas.

Section 6. Accidental Release Measures

If material is spilled, absorb with sand, earth, or similar inert material. Place in closed, labeled containers for proper disposal.

CERCLA (Superfund) Reportable Quantity (in lbs RQ Sodium hydroxide = 1,000 lbs (Product RQ = 6,452 lbs, 662 gallons)

Section 7. Handling and Storage

Handling: Avoid contact with skin and eyes; wash thoroughly after handling. Avoid breathing vapor; use with adequate ventilation.

Storage: KEEP FROM FREEZING! Store in a dry location at room temperature. Keep container closed and maintain all original markings and labels. Do not use aluminum or galvanized steel for storage, pumping or transfer.

Other: If this solution is mixed with water, heat will be given off. When diluting, always add this solution to water SLOWLY with constant mixing, in order to avoid splattering.

Section 8. Exposure Controls and Personal Protection

Respiratory Protection: Use NIOSH / MSHA approved respirator where high vapor or mist concentrations are present.

Local Exhaust: None normally required. Local exhaust may be needed under special circumstances such as poorly ventilated areas, evaporation from large surfaces, spraying, heating, etc.

Mechanical Exhaust: Mechanical ventilation should be sufficient to maintain exposure levels below exposure limits.

Protective Gloves: Wear chemical resistant gloves.

Eye Protection: Safety glasses with side shields. Do NOT wear contact lenses. Chemical goggles and/or faceshield should be worn where splashing is possible.

Other Protection: Eye wash and safety shower should be readily available.

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Hygienic Practices: Protective equipment and clothing should be selected, used and maintained according to applicable standards and regulations. For further information, contact the clothing or equipment manufacturer. Do not eat, drink, or smoke while using this product. Wash hands prior to eating, drinking, smoking, or using restrooms. Cleanse skin thoroughly after contact, before breaks and meals, and at the end of the work shift.

Section 9. Physical and Chemical Properties

| | | |
|---|--|-----------------------------|
| Boiling Point: | > 212 °F | Degree of water solubility: |
| Specific Gravity (H ₂ O=1): | 1.15-1.20 | Negligible = Less than 0.1% |
| Vapor Pressure (mm Hg): | > 1 | Slight = 0.1% - 1% |
| Vapor Density (air=1) | 0.7 - 0.8 | Moderate = 1% - 10% |
| Solubility in Water: | Complete. | Appreciable = More than 10% |
| Reactivity in Water: | Exothermic, generates heat. | Complete = 100% |
| Weight per Gallon (lb/gal): | 9.7 - 9.8 lbs/gal | |
| % Volatile by Volume: | 18-20 | |
| % Solid by Weight: | 80-82 | |
| Appearance and Odor: | Clear to slightly hazy, odorless liquid. | |
| Theoretical VOC: (>0.1 mm Hg @ 20 ° C) | < 0.05 lbs/gal | |
| Analytical VOC : (EPA method 24) | < 0.1 lbs/gal | |
| pH: | 13.0 - 13.5 | |

Section 10. Stability and Reactivity

Stability: Stable. Hazard Polymerization: Will not occur.

Conditions to Avoid: May react violently with water or acid, generating heat.

Incompatibility (Materials to Avoid): Contact with aluminum, tin, zinc, bronze, or brass may generate hydrogen gas (flammable).

Hazardous Decomposition Products: None known.

Section 11. Toxicological Information

Sodium hydroxide [CASRN 001310-73-2]

ACUTE TOXICITY

Oral LD50 (rat) = 300 - 500 mg/kg (believed to be)
Dermal LD50 (rabbit) > 2 g/kg (believed to be)
[0,7-18,7,F,A,18-121900], [3-2,18,18,F,A-011701]

Section 12. Ecological Information

Sodium hydroxide [CASRN 001310-73-2]

ECOTOXICITY

96 hr LC50 (mosquito fish) = 125 mg/l Golden shiner: fatal within 1 hour at pH >= 10.9
48 hr LC50 (bluegill) = 99 mg/l Bluegill: fatal within 1 hour at pH >= 10.5

Overview: Because of the high pH of this product, it would be expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems. [0,7-18,7,F,A,18-121900]

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Section 13. Disposal Considerations

Waste Disposal Methods (Federal, State, Local):

In accordance with all federal, state and local requirements.

RCRA Hazardous Waste Number: D002

Section 14. Transport Information

Hazardous Material Description:

(Proper shipping name, hazard class, hazard ID#, packing group)

Domestic ground non-bulk: SODIUM HYDROXIDE SOLUTION, 8, UN1824, PG II

Domestic ground bulk: RQ SODIUM HYDROXIDE SOLUTION, 8, UN1824, PG II

International: SODIUM HYDROXIDE SOLUTION, 8, UN1824, PG II

Section 15. Regulatory Information

SARA 313 Information

This product contains the following chemical(s) above deminis concentrations and may be subject to reporting under section 313:

None.

Section 16. Other Information

This MSDS contains revisions in the following sections: New format

Prepared by: John A. DiCerbo, IHIT Regulatory & Safety Coordinator

Revised by: Andrew J. Thomas Chemist

The development of this Material Safety Data Sheet (MSDS) relies upon information provided to us by each of our raw material suppliers. This MSDS will be updated as changes occur to their MSDS(s).

We believe the recommendations and technical information contained herein to be accurate. However, they are given without warranty or guarantee, expressed or implied, and we assume no responsibility for losses or damage, direct or indirect, as a result of their use.