# MATERIAL SAFETY DATA SHEET

<table>
<thead>
<tr>
<th>Chemical Name of Hazardous Ingredient</th>
<th>% Exposure Limits</th>
<th>Units</th>
</tr>
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<tbody>
<tr>
<td>SODIUM HYDROXIDE (1310-73-2)</td>
<td>16</td>
<td>TLV C 2, PEL C 2</td>
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## Hazards Identification

**Signs and Symptoms of Exposure**

**Acute**

**Chronic**

SAME AS ACUTE.

**HMIS**

Health 3  Flammability 0  Reactivity 0  Personal Protection

**Conditions Aggravated**

SENSITIVE SKIN AND EYES, DUST OR MIST MAY AGGRAVATE RESPIRATORY DISEASE.

**Carcinogen Info**

NOT CARCINOGENIC

**Target Organs or Systems**

**Routes of Exposure**

Inhalation [x]  Skin [x]  Ingestion [x]

## Initial Measures

**Inhalation**

IF INHALED, REMOVE TO FRESH AIR. GET MEDICAL ATTENTION IF BREATHING IS DIFFICULT.

**Eyes**

IMMEDIATELY FLUSH THOROUGHLY WITH FRESH WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION IMMEDIATELY.

**Skin**

FLUSH WITH FRESH WATER FOR AT LEAST 15 MINUTES. REMOVE CONTAMINATED CLOTHES AND SHOES. GET MEDICAL ATTENTION.

**Ingestion**

GIVE SEVERAL GLASSES OF WATER. DO NOT INDUCE VOMITING. GET MEDICAL ATTENTION. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

## Fire Fighting Measures

**Fire Control**

WEAR PROTECTIVE FIRE FIGHTING GEAR AND SELF-CONTAINED BREATHING APPARATUS IN FIRE AREA.

**Flammable Property Info**

**Explosion Info**

FORMS CORROSIVE LIQUID WITH WATER. CONTACT WITH ALUMINUM CAUSES SEVERE CORROSION AND RELEASES HYDROGEN GAS.

**Extinguishing Media**

CO2, FOAM, DRY CHEMICALS, WATER.
From: DIVERSELEVER at DIVERSELEVER 400-2

Spill and Leak Procedures:
- CORROSIVE SOLID. SWEEP OR SHOVEL MATERIAL INTO AN APPROPRIATE LEAK COVERED CONTAINER. NEUTRALIZE LIQUID RESIDUE WITH DILUTE MINERAL ACIDS. WEAR PROPER PROTECTIVE EQUIPMENT. WASH SPILL AREA WITH WATER.

Environmental Precautions:
- Ventilation Required: NONE
- Instructions: PROVIDE ADEQUATE VENTILATION
- Safe Storage: STORE IN DRY PLACE. KEEP AWAY FROM ACIDS. KEEP COVERED CONTAINER. KEEP OUT OF THE REACH OF CHILDREN.
- Handling Instructions: HANDLE PRODUCT AND USE VERY SLOWLY. DO NOT USE HOT WATER. USE ONLY IN STAINLESS STEEL MACHINES. CORROSIVE TO OTHER SOFT METALS.

Incompatible Materials:
- Protective Gloves: RUBBER, PVC, OR CHEMICAL RESISTANT
- Eye Protection: SHIELD SAFETY GLASSES OR CHEMICAL GOGGLES
- Respiratory Protection: WEAR MOUTH/HALF FACE CARTRIDGE RESPIRATOR IF TVP/PEL LIMITS ARE EXCEEDED.
- Other Protective Equipment: SAFETY SHOWER AND EYE WASH, CHEMICALLY IMPERVIOUS CLOTHING AND FOOTWEAR TO PREVENT SKIN CONTACT.

Chemical Properties:
- Appearance & Odor: WHITE OPAQUE LIQUID, MILD DETERGENT ODOR
- Boiling Point: 228 °F Melting Point: 70 °F Flammability Limits In Air by Volume: Upper: NONE Lower: NON
- Flash Point: NONE Auto Ignition: NONE
- Specific Gravity: 1.252
- Water Solubility: 100 %
- evaporative Rate: (n-Butyl Acetate=1) greater than 1

Hazard Summary and Reactivity:
- Peroxide, Pyrophoric, Unstable or Water Reactivity: MODERATE
- Material Reactivity and Polymerization: POSSIBLE HAZARDOUS REACTIONS
- Conditions to Avoid: CONCENTRATED MINERAL ACIDS, FLAMMABLE LIQUIDS, ORGANIC HALOGENS
- To Avoid: SHARP OBJECTS, BLEACH OR ACIDIC SOLUTIONS
- Hazardous Decomposition Products: NON-KNOWN

Possible Effects and Environmental Fate:
- Degradability: AQUATIC TOXICITY
- Method of Disposal: USE UNTIL LESS THAN ONE INCH REMAINS IN CONTAINER. EMPTY CONTAINER. DEFACE LABEL BEFORE SELLING CONTAINER OR DISPOSAL. DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS. ADJUST PH BEFORE DISPOSAL. CONTAINS NO PHOSPHORUS. SOLUTIONS MAY BE TOXIC TO FISH OR AQUATIC LIFE. DO NOT DISCHARGE TO LAKES, STREAMS, PONDS.

Disposal of Contaminated Material:
- CORROSIVE LIQUID, BASIC, INORGANIC N.O.S., (SODIUM HYDROXIDE), 8, UN3266, P.O. II, ERG60, NAERG#154

Toxicological Information:
- Right to Know Information:
- ALL CHEMICAL INGREDIENTS ARE LISTED ON THE TSCA INVENTORY.