

MATERIAL SAFETY DATA SHEET

Sodium Hydroxide 1.0 Normal Aqueous

SECTION 1 . Product and Company Identification

Product Name and Synonym: Sodium Hydroxide 1.0 Normal Aqueous
Product Code: 260-05
Material Uses:
Manufacturer: OFI Testing Equipment, Inc.
11302 Steeplecrest Drive
Houston, TX 77065 USA
Phone: (713) 880-9885
Fax: (713) 880-9886
Entry Date : 5/11/2010
Print Date: 7/31/2010
24 Hour Emergency Assistance : Chemtrec 800-424-9300
Canutec 613-996-6666

Health:	3			
Flammability:	0			
Reactivity:	0			
Hazard Rating:				
Least	Slight	Moderate	High	Extreme
0	1	2	3	4
NA = Not Applicable		NE = Not Established		

SECTION 2 HAZARD IDENTIFICATION

May cause irritation and burns. May be harmful if swallowed. Avoid breathing vapor or dust. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

Emergency Overview:Harmful If Swallowed Or Inhaled. May Cause Burns To Any Area Of Contact. Reacts With Water, Acids And Other Materials.
Inhalation:Mists May Irritate Respiratory Tract.
Ingestion:Swallowing may Cause Burns of the Mouth, Throat and Stomach.
Skin:May Cause Irritation to Skin
Eye Contact:May Cause Irritation to Eyes, and with Greater Exposures, Severe Buns with Possibly Blindness
Chronic Exposure:Persons with Pre-Existing Skin Disorders may be Susceptible to these Solutions.
Aggravated by Exposure:Persons with Pre-existing Skin Disorders or Eye Problems or Impaired Respiratory Function May be More Susceptible to the Effects of the Substance.

SECTION 3 MIXTURE COMPONENTS

SARA 313	Component	CAS Number	Percent Comp.	Dimension	Exposure Limits
<input checked="" type="checkbox"/>	Sodium Hydroxide	CAS# 1310-73-2	4%	W/V	OSHA PEL 2 mg/m ³ ACGIH 2mg/m ³
<input type="checkbox"/>	Water, Deionized ASTM Type II	CAS# 7732-18-5	Balance	V/V	None Established

SECTION 4 FIRST AID MEASURES

May cause irritation and burns. May be harmful if swallowed. Avoid breathing vapor or dust. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

FIRST AID: SKIN: Wash exposed area with soap and water. If irritation persists, seek medical attention.

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EYES: Wash eyes with plenty of water for at least 15 minutes, lifting lids occasionally. Seek Medical Aid. INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen

INGESTION: Give several glasses of milk or water. Vomiting may occur spontaneously, but DO NOT INDUCE! Never give anything by mouth to an unconscious person.

SECTION 5 FIRE FIGHTING MEASURES

Fire Extinguisher Type: Any means suitable for extinguishing surrounding fire

Fire / Explosion Hazards: None Known.

Fire Fighting Procedure: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and clothing.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Absorb spill with inert material, then place in a chemical waste container. Neutralize with a weak acid.

Ventilate area of Leak or Spill. Keep Unnecessary and Unprotected People away from the area of Spill. Wear Appropriate Personal Protective Equipment as Specified in Section 7. Contain and Recover Liquid when Possible. Use Non-Sparking Tools and Equipment. Collect Liquid in an Appropriate Container or Absorb with an Inert Material (e.g., Vermiculite, Dry Sand, Earth). Do Not use Combustible Materials, such as Saw Dust. Do Not Flush to Sewer! US Regulations (CERCLA) Require Reporting Spills and Releases to Soil, Water and Air in Excess of Reportable Quantities.

SECTION 7 HANDLING AND STORAGE

Store in a cool dry place. Do not get in eyes, on skin, on clothing. Wash thoroughly after handling

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection: None required

Ventilation

Local Exhaust

Mechanical

Protective Gloves: Wear appropriate gloves to prevent skin exposure

Eye Protection: Splash Goggles

Other Protective Equipment: Wear appropriate clothing to prevent skin exposure

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Melting Point:	~ 0° C	Percent Volatile by Volume:	96%
Boiling Point:	~ 100° C	Evaporation Rate	Information not available
Vapor Pressure:	Information not available	Evaporation Standard	

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Vapor Density:	Information not available	Auto Ignition Temp	Not applicable
Solubility in Water:	Soluble	Lower Flamm. Limit in Air	Not applicable
Appearance /Odors:	Clear colorless solution/no odor	Upper Flamm. Limit in Air	Not applicable
Flash Point:	Not flammable		
Specific Gravity:	~ 1.0		

SECTION 10 STABILITY AND REACTIVITY INFORMATION

Stability:	Stable
Conditions to Avoid:	Acids
Materials to Avoid:	Acids, flammable liquids, organic halogens, metals, nitrocompounds
Hazardous Decomposition Products:	Sodium Oxides
Hazardous polymerization:	Will Not Occur
Conditions to Avoid:	None known

SECTION 11 Toxicological Information

Carcinogenic References: NTP Carcinogen - Known: No, IARC Category- None

SECTION 12 Ecological Information

Environmental Fate: No Information Found.

SECTION 13 Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste facility. Although not a listed RCRA hazardous waste, this material may exhibit one or more characteristics of a hazardous waste and require appropriate analysis to determine specific disposal requirements. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

SECTION 14 Transport Information

DOT Classification: Sodium Hydroxide Solution, 8, UN1824, PG II

DOT Regulations may change from time to time. Please consult the most recent D.O.T. regulations.

SECTION 15 Regulatory Information

Chemical Inventory Status –
Part 1:Ingredient
Sodium Hydroxide (1310-73-2)
TSCA Yes
EC Yes
Japan YES
Australia Yes

Chemical Inventory Status –
Part 2:Ingredient
Sodium Hydroxide (1310-73-2)
Korea Yes

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DSL Yes
 NDSL No
 Phil. Yes

Federal, State & International Regulations –
 Part 1: Ingredient.

Sodium Hydroxide (1310-73-2)
 RQ No
 TPQ No
 List NO
 Chemical Catg No

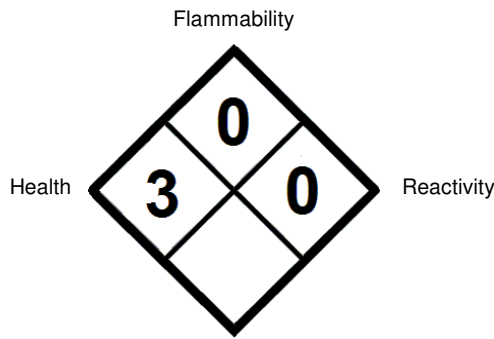
Federal, State &
 International Regulations –
 Part 2:Ingredient

Sodium Hydroxide (1310-73-2)
 CERCLA 1000
 261.33 No
 8(d) No

Chemical Weapons Convention: No
 TSCA 12 (b):No
 CDTA:No PURE/LIQUID
 SARA 311/312: Acute:YES
 Chronic: No
 Fire: No
 Pressure: No
 Reactivity: No
 Australian Hazchem Code: 2R
 Poison Schedule:S5

SECTION 16 Additional Information

Conditions aggravated/Target organs: Persons with preexisting skin, eye, or respiratory disorders may be susceptible. Corrosive! Acute: Irritation and burns to skin, eyes, lungs, mucous membranes and GI tract. Pneumonitis. Chronic: Dermatitis and other skin damage. Scarring.



Revisions

7/30/2010	0.1	updated msds to 16 section from 10 section msds. STN
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