

# MATERIAL SAFETY DATA SHEET

Sodium Hydroxide 8 Normal Solution

## SECTION 1 . Product and Company Identification

Product Name and Synonym: Sodium Hydroxide 8 Normal Solution  
Product Code: 260-07  
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:	1			
Hazard Rating:				
Least	Slight	Moderate	High	Extreme
0	1	2	3	4
NA = Not Applicable		NE = Not Established		

## SECTION 2 HAZARD IDENTIFICATION

Causes severe 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: Poison! Danger! Corrosive. May be fatal if swallowed. Harmful if inhaled. Causes burns to any area of contact. Reacts with water, acids and other materials.

Inhalation: Severe Irritant. Effects from Inhalation of Mists vary from Mild Irritation to Serious Damage of the Upper Respiratory Tract, Depending on Severity of Exposure. Symptoms may Include Sneezing, Sore Throat or Runny Nose. Severe Pneumonitis may Occur.

Ingestion: CORROSIVE! Swallowing may Cause Burns of the Mouth, Throat and Stomach. Severe Scarring of Tissue and Death may Result. Symptoms may Include Bleeding, Vomiting, Diarrhea, Fall in Blood Pressure. Damage may Appear Days after Exposure.

Skin: CORROSIVE! Contact with Skin can Cause Irritation or Severe Burns and Scarring with Greater Exposures.

Eye Contact: CORROSIVE! Causes Irritation to Eyes, and with Greater Exposures, Severe Burns with Possibly Blindness Resulting.

Chronic Exposure: Persons with Pre-Existing Skin Disorders or Eye Problems or Impaired Respiratory Function may be More Susceptible to the Effects of the Substance.

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

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SARA 313	Component	CAS Number	Percent Comp.	Dimension	Exposure Limits
<input checked="" type="checkbox"/>	Sodium Hydroxide	CAS# 1310-73-2	32%	W/V	OSHA PEL 2 mg/m <sup>3</sup> ACGIH 2mg/m <sup>3</sup>
<input type="checkbox"/>	Water, Deionized ASTM Type II	CAS# 7732-18-5	Balance	V/V	None Established

## SECTION 4 FIRST AID MEASURES

Causes severe 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: Remove contaminated clothing. Wash exposed area with soap and water. If irritation persists, seek medical attention.

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

Fire Fighting Procedure: Use water spray to cool fire exposed containers.

## 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 8. Contain and

Recover Liquid when Possible. Residues from Spills can be Diluted with Water, Neutralized with

Dilute Acid such as Acetic, Hydrochloric or Sulfuric. Absorb Neutralized Caustic Residue on

Clay, Vermiculite or other Inert Substance and Package in Suitable Container for Disposal. US

Regulations (CERCLA) Require Reporting Spills and Releases to Soil, Water and Air in Excess

of Reportable Quantities. Do Not Flush to Sewer!

## SECTION 7 HANDLING AND STORAGE

Store in a cool, dry, well-ventilated place away from incompatible materials. Wash thoroughly after handling.

## SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection: NIOSH/MSHA-approved respirator

Ventilation

Local Exhaust

Mechanical

Protective Gloves: NIOSH Approved Gloves

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Eye Protection: Goggles and Face Shield

Other Protective Equipment: Wear appropriate clothing to prevent skin exposure

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

Melting Point:	Information not available	Percent Volatile by Volume:	60
Boiling Point:	Information not available	Evaporation Rate	Information not available
Vapor Pressure:	Information not available	Evaporation Standard	
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, odorless liquid	Upper Flamm. Limit in Air	Not applicable
Flash Point:	Not applicable		
Specific Gravity:	~ 1.22		

**SECTION 10 STABILITY AND REACTIVITY INFORMATION**

Stability: Stable

Conditions to Avoid: Avoid contact with incompatible materials.

Materials to Avoid: Acids, aluminum, tin, zinc metals.

Hazardous Decomposition Products: Oxides of sodium

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

Environmental Toxicity: No information found

**SECTION 13 Disposal Considerations**

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved waste facility. 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

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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  
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

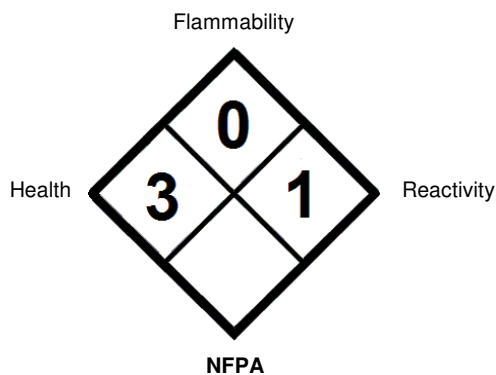
Federal, State &  
International Regulations –  
Part 2:Ingredient  
Sodium Hydroxide (1310-73-2)  
CERCLA 1000  
261.33 No  
8(d) No

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: Corrosive! Persons with preexisting skin, eye or respiratory disorders may be more susceptible. Acute: Severe irritation or burns to skin, eyes, respiratory tract and digestive tract, pneumonitis, eye damage, edema, asphyxia. Chronic: Dermatitis, bronchial irritation / pneumonia, eye damage.

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Revisions

	NFPA	
	0	
7/30/2010	0.1	updated msds to 16 section from 10 section msds. STN

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