

Calcium Buffer Solution

SARA 313	Component	CAS Number	Percent Comp.	Dimension	Exposure Limits
	Sodium Hydroxide	CAS# 1310-73-2	15 - 17%	W/W	OSHA PEL 2 mg/mf ACGIH 2mg/mf
	Water, Deionized ASTM Type II	CAS# 7732-18-5	Balance	W/W	None Established

SECTION 4 FIRST AID MEASURES

FIRST AID: CALL A PHYSICIAN. SKIN: In case of contact, immediately flush skin with water for at least 15 minutes while removing contaminated clothing and shoes. Thoroughly clean clothing and shoes before reuse.

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: Water spray, Carbon dioxide, dry chemical, powder, foam.
None

Fire / Explosion Hazards:

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 area of

Of spill. Wear appropriate personal protective equipment as specified in section 8. Contain and recover liquid when possible. Do not flush caustic residues to the sewer. 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 a suitable container for disposal. US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities.

SECTION 7 HANDLING AND STORAGE

Keep in tightly closed container. Store in a cool, dry, well-ventilated place away from incompatible materials. Wash thoroughly after handling. Store above 60 deg F (16°C) to prevent freezing. Containers of this product may be hazardous when

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection: NIOSH/MSHA-approved respirator

Causes severe irritation and burns. Harmful if swallowed. Avoid breathing vapor or dust. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash

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Ventilation empty.
Local
Mechanical

Protective Gloves: NIOSH Approved Gloves

Eye Protection: Splash Goggles or
full 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	83-85%
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 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, flammable liquids, organic halogens, metals, nitrocompounds
Hazardous Decomposition	sodium oxide, Reaction w/ metals may release H2 Gas
Products:	release H2 Gas
Hazardous polymerization:	Will Not Occur
Conditions to Avoid:	None known

SECTION 11

Toxicological Information

NTP Carcinogen - Known: No, IARC Category- None

SECTION 12

Ecological Information

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.

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thoroughly after handling. Keep container closed.

SECTION 14

Transport Information

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

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

SECTION 15

Regulatory Information

SECTION 16

Additional Information

Conditions aggravated/target organs: Corrosive! Persons with pre-existing skin and eye disorders will be more susceptible. Acute: Skin and eye irritation or burns. Chronic: Dermatitis, eye damage.

Flammability

Health

Reactivity

Revisions

NFPA

7/30/2010

0.1

updated msds to 16 section from 10
section msds. STN

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