

MATERIAL SAFETY DATA SHEET

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1. PRODUCT IDENTIFICATION

CATALOG NO.: R-0010
 PRODUCT NAME: Calcium Buffer
 CHEMICAL FAMILY: Inorganic alkali solution

2. INGREDIENTS

| INGREDIENT | CAS NO. | % | NATURE OF HAZARD |
|------------------|-----------|--------|------------------|
| Sodium hydroxide | 1310-73-2 | <2 | Irritant alkali |
| Deionized water | 7732-18-5 | to 100 | None |

3. PHYSICAL/CHEMICAL CHARACTERISTICS

STATE: Liquid APPEARANCE: Clear, colorless ODOR: None
 BOILING PT (F): 230 pH: 13.1 SPECIFIC GRAVITY: 1.2
 VAPOR PRESSURE (mm Hg): 17 VAPOR DENSITY (AIR=1): .6
 PERCENT VOLATILE BY VOLUME: 98 SOLUBILITY IN WATER: Soluble

4. FIRE, EXPLOSION HAZARD AND REACTIVITY DATA

FLASH PT: NA METHOD: NA
 FLAMMABLE LIMITS: LEL: NA UEL: NA
 EXTINGUISHING MEDIA: Dry chemical, carbon dioxide, water spray or foam
 SPECIAL PROCEDURES: Wear self-contained (positive pressure if available) breathing apparatus and special protective clothing
 FIRE/EXPLOSION HAZARDS AND HAZARDOUS DECOMPOSITION PRODUCTS: May react with metals to produce hydrogen gas. May emit toxic or irritating fumes.
 NFPA CODE: Health: 2 Flammability: 0 Reactivity: 0 Specific: ALK
 CONDITIONS TO AVOID: Extreme heat, temperatures. Contact with strong acids, metals, aldehydes, organic halogens.

5. HEALTH HAZARD DATA

INGREDIENT: Sodium hydroxide
 TOXICITY: LD50(orl-rat): 140-340 mg/kg TLV: 2 mg/m3
 PEL: 2 mg/m3
 STEL: NE

ROUTE(S) OF ENTRY: Inhalation Ingestion X Skin X

TARGET ORGAN(S): Eyes, skin

CARCINOGENICITY: NTP No IARC No OSHA No

HEALTH HAZARDS AND SYMPTOMS OF EXPOSURE:

EYES: Irritant. Contact may cause burns.

SKIN: Irritant. Contact may cause burns.

INGESTION: Irritant. May cause burns of mouth, throat, esophagus, stomach.

INHALATION: NA

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Eye and skin conditions

6. PRECAUTIONARY MEASURES

PROTECTIVE EQUIPMENT: General purpose gloves, safety glasses, lab coat
HANDLING: Avoid contact with eyes, skin, and clothing. Avoid breathing chemical. Wash thoroughly after handling.
STORAGE: Cool, dry area. Avoid direct sunlight.

7. EMERGENCY AND FIRST AID PROCEDURES

EYE AND SKIN CONTACT: Immediately flush eyes with water for 15 minutes. Call physician. Wash skin thoroughly with soap and water.
INGESTION: Give large amounts of water. Call physician. **DO NOT INDUCE VOMITING.**
INHALATION: NA

8. SPILL AND DISPOSAL PROCEDURES

SPILL OR RELEASE: Neutralize with dilute acid. Absorb with vermiculite or other inert material. Containerize for later disposal.
DISPOSAL: Incineration or other method to comply with all local, state, and federal regulations.

NA = Not applicable
ND = Not determined
NE = Not established

This Material Safety Data Sheet has been prepared in accordance with 29 CFR Part 1910.1200 and contains information believed to be accurate and complete at the date of preparation. However, no warranty is expressed or implied. Advice given under "Spill and Disposal Procedures" assumes compliance with federal, state, and local regulations regarding the disposal of hazardous waste.

DATE PREPARED: May 1996