

Material Safety Data Sheet

1. PRODUCT IDENTIFICATION: Free Chlorine Buffer Solution

Catalog Numbers-HF scientific: 14272 09935 09937 09947

PRODUCT USE: Analytical / Laboratory Reagent

NFPA RATINGS: HEALTH: 3 FLAMMABILITY: 0 REACTIVITY: 1

2. HAZARDS IDENTIFICATION

TARGET ORGANS: Skin, Eyes, Mucous Membranes
 ACUTE TOXICITY: Eye and Skin Burns. May Cause Respiratory Tract Irritation with Possible Burns. May Cause Digestive Tract Irritation with Possible Burns. Eye Contact May Result in Permanent Eye Damage.
 CHRONIC TOXICITY: Prolonged or Repeated Skin Contact May Cause Dermatitis.
 MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Pre-Existing Skin, Eye, Respiratory, or Digestive Conditions

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component		Percent
Component Sodium Hydroxide		
CAS No.	1310-73-2	<5
Component Carboxylate Salt		
CAS No.	Confidential	<25
Component EDTA (Ethylenediaminetetraacetic Acid)		
CAS No.	6381-92-6	<1
Component Deionized Water		
CAS No.	7732-18-5	>75

1. FIRST AID MEASURES

EYE CONTACT: Immediately Flush Eyes with Water. Get Medical Aid Immediately.
 SKIN CONTACT: Immediately Flush Skin with Water. Remove Contaminated Clothes and Shoes. Get Medical Aid Immediately. Wash Clothing Before Reuse.
 INHALATION: Remove to Fresh Air. If Not Breathing, Give Artificial Respiration. If Breathing is Difficult, Give Oxygen. Get Medical Aid.
 INGESTION: Do Not Induce Vomiting. Get Medical Aid Immediately. If Conscious, Give Water. Never Give Anything By Mouth to an Unconscious Person.

2. FIRE FIGHTING MEASURES

FLASH POINT: NA AUTOIGNITION POINT: NA
 FLAMMABILITY LIMITS: UPPER: NA LOWER: NA
 EXTINGUISHING MEDIA: Substance is Not Combustible

3. ACCIDENTAL RELEASE MEASURES

Remove Liquid with Absorbent Material and Set Aside for Disposal

4. HANDLING AND STORAGE

HANDLING: Wear Safety Glasses, Latex or Nitrile Gloves, and Lab Coat or Apron. Avoid Contact with Skin and Eyes. Do Not Ingest.
 STORAGE: Keep Container Tightly Closed When Not in Use

5. EXPOSURE CONTROLS / PERSONAL PROTECTION

OSHA (PEL): Sodium Hydroxide 2mg/m³ TWA
 ACGIH THRESHOLD LIMIT: Sodium Hydroxide 2 mg/m³ STEL/CEIL(C)
 NIOSH RELs: Sodium Hydroxide 2 mg/m³ STEL/CEIL(C)

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid
 COLOR: Clear
 ODOR: Odorless
 FLASH POINT: NA
 FLAMMABLE LIMITS: NA
 AUTOIGNITION TEMPERATURE: NA
 VAPOR PRESSURE (mm Hg): Not Determined
 SPECIFIC GRAVITY: 1.0
 BOILING POINT: 100°C, 212 °F
 FREEZING POINT: 0°C, 32 °F
 MELTING POINT: NA
 SOLUBILITY IN WATER: SOLUBLE

pH: 12-14, Alkaline Solution

10. STABILITY AND REACTIVITY

Product Stable Under General Use and Storage Conditions. Hazardous Polymerization Will Not Occur.

11. TOXICOLOGICAL INFORMATION

Route of Exposure: Skin, Eye, Ingestion
 Teratogen Status: None
 Mutagen Status: None
 Reproductive Toxicity: None
 Carcinogen Status: None

12. ECOLOGICAL INFORMATION

No Ecological Data Available

13. DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with Federal, State and Local Regulations.

14. TRANSPORT INFORMATION

US DOT (United States Department of Transportation):
 PROPER SHIPPING NAME: Sodium Hydroxide Solution
 HAZARD CLASS: 8
 UN NUMBER: UN1824
 PACKING GROUP: III

IATA (International Air Transport Association):
 PROPER SHIPPING NAME: Sodium Hydroxide Solution
 HAZARD CLASS: 8
 UN NUMBER: UN1824
 PACKING GROUP: III

IMO (International Maritime Organization):
 PROPER SHIPPING NAME: Sodium Hydroxide Solution
 HAZARD CLASS: 8
 UN NUMBER: UN1824
 PACKING GROUP: III

15. REGULATORY INFORMATION

US / CANADA INFORMATION:

SARA/Title III: Sodium Hydroxide is Listed as a CERCLA hazard. RQ=1000 lbs
 Cal. Proposition 65: None
 US TSCA Inventory: Listed

16. OTHER INFORMATION

THE ABOVE INFORMATION IS BELIEVED TO BE ACCURATE AND REPRESENTS THE BEST INFORMATION CURRENTLY AVAILABLE TO US. ALL PRODUCTS ARE OFFERED IN ACCORDANCE WITH THE MANUFACTURER'S CURRENT PRODUCTION SPECIFICATIONS AND ARE INTENDED SOLELY FOR USE IN ANALYTICAL TESTING. THE MANUFACTURER SHALL IN NO EVENT BE LIABLE FOR ANY INJURY, LOSS OR DAMAGE RESULTING FROM THE HANDLING, USE OR MISUSE OF THESE PRODUCTS.