



3170 Metro Parkway  
Ft. Myers, FL 33916 USA  
Telephone: 888-203-7248  
CHEMTREC® 24 hr Emergency: US 800-424-9300;  
CHEMTREC® 24 hr Emergency: International 703-527-3887

# Material Safety Data Sheet

## 1. PRODUCT IDENTIFICATION: Total Chlorine Buffer Solution

Catalog Numbers-HF scientific: 14273 09936

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 |
|--|--------------|---------|
| Sodium Hydroxide                       |              |         |
| CAS No.                                | 1310-73-2    | <5      |
| Carboxylate Salt                       |              |         |
| CAS No.                                | Confidential | <25     |
| Potassium Iodide                       |              |         |
| CAS No.                                | 7681-11-0    | <6      |
| EDTA (Ethylenediaminetetraacetic Acid) |              |         |
| CAS No.                                | 6381-92-6    | <1      |
| Deionized Water                        |              |         |
| CAS No.                                | 7732-18-5    | >65     |

## 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/m<sup>3</sup> TWA  
ACGIH THRESHOLD LIMIT: Sodium Hydroxide 2 mg/m<sup>3</sup> STEL/CEIL(C)  
NIOSH RELs: Sodium Hydroxide 2 mg/m<sup>3</sup> 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

Proper Shipping Name: Sodium Hydroxide Solution  
DOT HAZARDOUS CLASSIFICATION: 8 Corrosive Material  
DOT LABELING REQUIREMENTS: Corrosive  
UN NUMBER: UN1824  
PACKING GROUP: II

## 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.