

1. IDENTIFICATION:

Product Name: FREE CHLORINE BUFFER
CAS Number: Mixture
Catalog Numbers: 09947 09935 09937
Product Use: Analytical / Laboratory Reagent
Manufacturer: HF Scientific, Inc
Address: 3170 Metro Parkway Fort Myers, FL 33916

General Information: 888-203-7248
Transportation Emergency Number: CHEMTREC® 24 hr US 800-424-9300
 CHEMTREC® 24 hr International 703-527-3887

2. HAZARDS IDENTIFICATION

GHS Classification

Health	Environmental	Physical
Acute Toxicity: Category 5 Skin Irritation: Category 3 Eye Irritation: Category 2B	Aquatic Toxicity: None	Flammable Liquid: No

GHS Label

Pictogram: None	Signal Word: WARNING
Hazard Statements May be harmful if swallowed May be harmful in contact with skin May be harmful if inhaled. Causes mild skin irritation Causes eye irritation	Precautionary Statements IF INHALED Remove from Exposure and Move to Fresh Air Immediately. If Not Breathing, Give Artificial Respiration. If Breathing is Difficult, Give Oxygen. Get Medical Aid if Cough or Other Symptoms Appear. IF IN EYES Flush Eyes with Plenty of Water for at Least 15 Minutes. Get Medical Aid

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	Cas Number	Weight %
Deionized Water	7732-18-5	> 75%
Trisodium Citrate Salt	68-04-2	< 15%
Ethylenediaminetetraacetic Acid (EDTA)	10034-93-2	< 1%

4. FIRST AID MEASURES

EYE CONTACT: Flush Eyes with Plenty of Water for at Least 15 Minutes. Get Medical Aid
SKIN CONTACT: Flush Skin with Water for at Least 15 Minutes While Removing Contaminated Clothing and Shoes
INHALATION: Remove from Exposure and Move to Fresh Air Immediately. If Not Breathing, Give Artificial Respiration. If Breathing is Difficult, Give Oxygen. Get Medical Aid if Cough or Other Symptoms Appear.
INGESTION: Never Give Anything by Mouth to an Unconscious Person. Get Medical Aid. Do NOT Induce Vomiting. If Conscious and Alert, Rinse Mouth and Give Milk or Water.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Water Spray, Dry Chemical, Carbon Dioxide, or Foam
Fire Fighting Procedures: As in any fire, wear self-contained breathing apparatus pressure-demand and full protective gear.
Unusual Fire and Exposure Hazards: None reported
Combustion Products: None reported
NFPA Classification HEALTH: 2 FLAMMABLE: 0 REACTIVITY: 0

6. ACCIDENTAL RELEASE MEASURES

Clean Up Spills Immediately Wearing Appropriate Personal Protective Equipment listed in section 8. Take up liquid with absorbent material and place in marked container for disposal. Provide Ventilation.

7. HANDLING AND STORAGE

Handling: Wash Thoroughly After Handling. Remove Contaminated Clothing and Wash Before Reuse. Use in Adequate Ventilation. Avoid Contact with Eyes, Skin, and Clothing. Keep Container Tightly Closed. Do not ingest.
Storage: Storage under normal conditions

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits: Not established
Engineering Controls: Use Adequate Ventilation to Keep Airborne Concentrations Low

Personal Protective Equipment:

Eyes: Safety glasses
Skin: Lab Coat, and Latex or Nitrile Gloves

9. PHYSICAL AND CHEMICAL PROPERTIES

Flashpoint: N/A
Autoignition Temperature: N/A
Boiling Point: N/A
Melting Point: N/A
Vapor Pressure: N/A

Vapor Density: N/A
% Solubility in Water: 100%

Pour Point: N/A
Molecular Formula: Mixture
Odor / Appearance: Odorless, clear liquid

Lower Flammability Limit: N/A
Upper Flammability Limit: N/A
Specific Gravity: N/A
% Volatile: N/A
Evaporation Rate (Water=1): N/A
Viscosity: N/A
Octanol / Water Partition Coefficient: N/A
pH: 6.0 – 7.0
Molecular Weight: Mixture

10. STABILITY AND REACTIVITY

Stability / Incompatibility: Stable at Room Temperature in Closed Containers Under Normal Storage and Handling Conditions.
Hazardous Reactions / Decomposition: None reported

11. TOXICOLOGICAL INFORMATION

Symptoms of Overexposure: Irritation of eye, skin and respiratory tract.
Acute Effects: Irritation of eye, skin and respiratory tract.
Eye Contact: Irritation of eyes.
Skin Contact: Irritation of skin
Inhalation: Irritation of respiratory tract
Ingestion: N/A
Target Organs Effects: Eyes, skin and respiratory tract
Chronic Effects: None reported
Medical Conditions Aggravated by Exposure: Pre-Existing Eye, Skin or Respiratory Conditions
Acute Toxicity Values: N/A

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): Not regulated
IATA (International Air Transport Association): Not regulated
IMO (International Maritime Organization): Not regulated

15. REGULATORY INFORMATION

EUROPEAN INFORMATION:
RISK PHRASES: R 36/38 Irritating to Eyes and Skin
SAFETY PHRASES: S 26 In Case of Contact with Eyes, Rinse Immediately with Plenty of Water and Seek Medical Advice. S37/39 Wear Suitable Gloves and Eye/Face Protection

US / CANADA INFORMATION:

SARA/Title III: None Listed
Cal. Proposition 65: None Listed
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.