

1. IDENTIFICATION:

Product Name: TOTAL CHLORINE BUFFER
Synonyms: N/A
CAS Number: Mixture
Catalog Numbers: 09991 09942 09936 09938 09948 09991T 09992
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: No

GHS Label

Pictogram: No symbol	Signal Word: WARNING
Hazard Statements: 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%
Potassium iodide	7681-11-0	< 10%
Ethylenediaminetetraacetic Acid (EDTA)	6381-92-6	< 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: N/A
Unusual Fire and Exposure Hazards: N/A
Combustion Products: N/A
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.
Storage: Keep Container Tightly Closed. Do not ingest.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits: N/A
Engineering Controls: Use adequate ventilation to keep airborne concentrations low
Personal Protective Equipment:
Eyes: Safety glasses
Skin: Latex or nitrile gloves and lab coat
Respiratory: Dust mask

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: N/A

Pour Point: N/A
Molecular Formula: Mixture
Odor / Appearance: Clear, odorless 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 – 7
Molecular Weight: Mixture

10. STABILITY AND REACTIVITY

Stability / Incompatibility: Stable at Room Temperature in Under Normal Storage and Handling Conditions.
Hazardous Reactions / Decomposition Products: N/A

11. TOXICOLOGICAL INFORMATION

Symptoms of Overexposure: May Cause Eye, Skin, or Respiratory Tract Irritation
Acute Effects: May Cause Eye, Skin, or Respiratory Tract Irritation
Eye Contact: Eye irritation
Skin Contact: Mild skin irritation
Inhalation: Respiratory tract irritation
Ingestion: N/A
Target Organs Effects: N/A
Chronic Effects: N/A
Medical Conditions Aggravated by Exposure: Pre-existing eye, skin or respiratory disorders
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

CERCLA: No
SARA/Title III: No
TSCA Inventory: No
Cal. Proposition 65: No
WHMIS: No
DSL: No
NDSL: No

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.