Product BT-4450
Revision Date 5/15/2015

Revision 1



## **Safety Data Sheet**

## **SECTION I: IDENTIFICATION**

Product Name BT-4450
Identifier Uses Boiler Treatment

**Supplier** Clear Water Technologies, LLC

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Contact Person <u>info@clearwatertech.com</u>

Emergency Telephone 24-HOUR EMERGENCY TELEPHONE: INFOTRAC: I-800-535-5053 INTERNATIONAL#:

1-352-323-3500

# **SECTION 2: HAZARDS IDENTIFICATION**

Appearance Liquid.

Color Clear, light pink liquid.

**Odor** Sulfite Odor.

Pictogram(s)



Signal Word

Hazard Statements H302 Harmful if swallowed.

H315 Causes skin irritation. H318 Causes serious eye damage.

**Precautionary Statements** P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/ protective clothing/eye protection/face protection. P302 +

P352 IF ON SKIN: Wash with plenty of soap and water.

 $P305 + P351 + P338 \,IF \,IN \,EYES: \,Rinse \,cautiously \,with \,water \,for \,several \,minutes. \,Remove \,contact$ 

lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician

**Contains** tetrasodium ethylenediaminetetraacetate

sodium hydroxide

 $Glycine, \ N-(carboxymethyl)-N-[2-[(carboxymethyl)amino]ethyl]-, \ trisodium \ salt \ N-(carboxymethyl)-N-(carboxymethyl)-, \ trisodium \ salt \ N-(carboxymethyl)-, \$ 

(Carboxymethyl-N,N'-ethylenediglycine, trisodium salt Trisodium ethylenediamine triacetate

sodium metabisulphite potassium hydroxide

**GHS** Classification

Ingestion

Physical and Chemical Hazards

Not classified

**Human Health** Acute Tox 4 - H302, Skin Irrit.2 - H315, Eye Dam. I - H318

**Environment** Not classified

OSHA Regulatory Status Inhalation

This product is Hazardous under the OSHA Hazard communication Standard.

No specific symptoms noted, inhalation is not believed to be a likely route of exposure.

Harmful if swallowed.

**Skin contact** Irritation or pain may occur at the site of contact.

Eye contact Extreme irritation of eyes and mucous membranes, including burning and tearing. Causes serious

eye damage.

Routes of Exposure Unknown

## **SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS**

Confidential business information has been removed without affecting the overall safety

information on the safety data sheet.

### **SECTION 4: FIRST AID MEASURES**

Description of first aid measures

**General Information** General first aid, rest, warmth and fresh air.

**Inhalation** Remove victim immediately from source of exposure. Keep the affected person warm and at rest.

Get prompt medical attention.

Ingestion NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Rinse mouth

thoroughly. Get medical attention immediately!

Skin contact Remove affected person from source of contamination. Remove contaminated clothing. Wash the

skin immediately with soap and water. Get medical attention promptly if symptoms occur after

washing.

Eye contact Do not rub eye. Make sure to remove any contact lenses from the eyes before rinsing.

Promptly wash eyes with plenty of water while lifting the eye lids. Get medical attention

immediately. Continue to rinse.

### Most important symptoms and effects, both acute and delayed

**General Information** 

Inhalation No specific symptoms noted, inhalation is not believed to be a likely route of exposure.

**Ingestion** Harmful if swallowed.

**Skin contact** Irritation or pain may occur at the site of contact.

Eye contact Extreme irritation of eyes and mucous membranes, including burning and tearing. Causes serious

eye damage.

Routes of Exposure Unknown

Most important symptoms and effects, both acute and delayed

Notes to the Physician Treat Symptomatically.

## **SECTION 5: FIREFIGHTING MEASURES**

Auto Ignition Temperature (°C)

Flammability Limit - Lower (%)

Flammability Limit - Upper (%)

Flash point

No Information available.

No Information available.

No Information available.

chemical or carbon dioxide.

Hazardous combustion products
Unusual Fire & Explosion Hazards
Special Fire Fighting Procedures

Combustion may lead to the release of oxides of sulfur.

Irritating vapors may be emitted during a fire.

Use water to cool containers exposed to a fire.

Protective equipment for

fire- fighters

Wear full protective clothing and self-contained breathing apparatus, suitable gloves and boots.

# **SECTION 6: ACCIDENTAL RELEASE MEASURES**

Personal Precautions For personal protection, see section 8. In case of inadequate ventilation, use respiratory

protection. Do not smoke, use open fire or other sources of ignition. In case of spills, beware of

slippery floors and surfaces.

Environmental Precautions
Spill Clean Up Methods

Keep out of drains, municipal sewers, open bodies of water and water course. Restrict non-essential personnel from the area. Wear protective clothing, goggles and

respirator if ventilation is not adequate. Squeegee and collect the spillage or vacuum the spillage. Place collected spillage into containers for reuse or disposal. Dispose according to local, state or

federal regulations at an approved chemical waste reprocessing facility.

Neutralize spill area with lime or soda ash and flush with large amounts of water.

### **SECTION 7: HANDLING AND STORAGE**

Handling Use proper personal protection when handling. Provide good ventilation. Avoid contact with skin

and eyes and clothing. Do not use contact lenses. Avoid inhalation of Vapors and mists. Avoid prolonged or repeated contact. Do NOT ingest. Wash thoroughly after handling. Rinse container

before disposal.

Usage Description Store in a cool, dry, and well-ventilated place away from incompatible materials. Vent

containers frequently, and more often in warm weather to relieve pressure. Keep container tightly

closed when not in use. Do not get in eyes, on skin, or on clothing.

**Storage Precautions** Store closed containers in a cool, dry, well-ventilated area away from incompatible materials.

This product is stable under normal conditions of handling and storage. Avoid cold temperatures.

The recommended storage temperature is above 32°F, preferably at room temperature (70°F). Keep away from oxides of sulfur.

Specific End Use(s)

The identified uses are in section 1 of this Safety Data Sheet.

### **SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

#### **Protective Equipment**

Component	STD	TWA	(8 Hrs.)	STEL(	l 5mins)	Notes
sodium hydroxide	OSHA		2mg/m3			
Cobalt	OSHA		0.1mg/m3			

Ingredient Comments OSHA

**Process Conditions** Provide eyewash, quick drench.

Engineering Measures Provide adequate ventilation, including appropriate local extraction, to ensure that the

defined occupational exposure limit is not exceeded.

use a NIOSH approved organic vapor respirator to reduce potential for inhalation exposure. When using respirator cartridges, they must be changed frequently to assure breakthrough

exposure does not occur.

**Hand Protection** Use rubber or plastic gloves to minimize skin contact.

**Eye Protection** To avoid contact with eyes, use safety glasses or chemical splash goggles. Face shield is

recommended. Eye wash station should be available in the work area.

**Hygiene Measures**DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before

eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Promptly

remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

#### Information on Basic Physical and Chemical Properties

Appearance Liquid.

**Color** Clear, light pink liquid.

**Odor** Sulfite Odor.

Odor Threshold - Lower No Information available.

Odor Threshold - Upper No Information available.

pH-Value, Conc. Solution 6.1
Melting point 32.0 °F
Initial boiling point and boiling range

212.0 °F

Flash point No Information available.

**Evaporation rate** No Information available.

Flammability State No Information available.

Flammability Limit - Lower (%) No Information available.

Flammability Limit - Upper (%) No Information available.

Vapor pressure Not determined.

Vapor Density (air=1) Not determined.

Relative density 1.262 @ 68.0 °F

**Bulk Density** No Information available.

**Solubility** Completely soluble in water.

**Decomposition temperature** No Information available.

Partition coefficient; n-octanol/water No Information available.

Auto Ignition Temperature (°C) No Information available.

Viscosity No Information available.

**Explosive Properties** No information available.

Oxidizing properties No Information available.

Molecular Weight No Information available.

Volatile Organic Compound No Information available.

### **SECTION 10: STABILITY AND REACTIVITY**

**Reactivity** Reactions may occur with strong oxidizing materials and strong acids.

Stability This product is stable at ambient temperatures and atmospheric pressures.

Hazardous Polymerization Hazardous polymerization is not expected to occur under normal temperatures and

pressures.

Hazardous Decomposition Products Hazardous decomposition will result in the release of oxides of sulfur.

**Conditions to Avoid** Avoid exposing to heat and contact with strong oxidizing substances.

Materials to Avoid Keep away from strong oxidizing materials and strong acids.

## **SECTION 11: TOXICOLOGICAL INFORMATION**

**Toxicological Information** No toxicological information for the overall finished product.

Acute Toxicity (Oral LD50) >425.00mg/kg Rat
Acute Toxicity (Dermal LD50) No Information available.
Acute Toxicity (Inhalation LC50) No Information available.

Skin Corrosion/Irritation No Information available.

Respiratory SensitizationNo Information available.Skin SensitizationNo Information available.Reproductive Toxicity:No Information available.Germ Cell Mutagenicity:

Genotoxicity - In Vitro Genotoxicity - In Vivo

Carcinogenicity:

CarcinogenicityNo Information available.

NTP - Carcinogenicity

The product and its components are not listed.

OSHA - Carcinogenicity

The product and its components are not listed.

IARC Carcinogenicity cobalt: 2B IARC Group 2B possibly carcinogenic to humans.

Specific Target Organ Toxicity - Single Exposure:

**STOT - Single Exposure** No Information available.

Specific Target Organ Toxicity - Repeated Exposure:

**STOT - Repeated Exposure** No Information available.

Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
potassium hydroxide	284mg/kg Rat		
cobalt	6170mg/kg Rat		

# **SECTION 12: ECOLOGICAL INFORMATION**

**Eco toxicity** No Information available.

Acute Toxicity - FishLC50 96 Hours > 350.00ppm Onchorhynchus mykiss (Rainbow Trout)Acute Toxicity -LC50 48 Hours > 1400.00ppm Daphnia magna

**Aquatic Invertebrates** 

Acute Toxicity - Aquatic Plants EC50 72 Hours > 150.00ppm

**Degradability** No information available.

Bio accumulative Potential No Information available.

**Mobility** No Information available.

Results of PBT and vPvB Assessment The product does not contain any PBT or vPvB substances.

Other Adverse Effects None known.

## **SECTION 13: DISPOSAL CONSIDERATIONS**

Waste Management When handling waste, consideration should be made to the safety precautions applying to

handling of the product.

**Disposal Methods** Dispose of waste and residues in accordance with local authority requirements. Do NOT

dump into any sewers, on the ground or into any body of water. Rinse containers before disposal. Since emptied containers contain product residue, follow label warnings even after container is

emptied.

### **SECTION 14: TRANSPORT INFORMATION**

UN No. (DOT/TDG) Not applicable.

UN No. (IMDG) Not applicable.

UN No. (ICAO) Not applicable.

DOT Proper Shipping Name Not applicable.

TDG Proper Shipping Name Not applicable.

**DOT Hazard Class** Not applicable.

DOT Hazard Label Not applicable.

TDG Class Not applicable.

TDG Label(s) Not applicable.

IMDG Class Not applicable.

ICAO Class Not applicable.

**Transport Labels** 

DOT Pack Group Not applicable.

IMDG Pack Group Not applicable.

Air Pack Group Not applicable.

**EMS** Not applicable.

Environmentally Hazardous Substance/Marine Pollutant

No

## **SECTION 15: REGULATORY INFORMATION**

US Federal Regulations

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities

The Following ingredients are listed

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)

The Following ingredients are listed sodium hydroxide

potassium hydroxide

cobalt

#### SARA Extremely Hazardous Substances EPCRA Reportable Quantities

The Following ingredients are listed

**SARA 313 Emission Reporting** 

The Following ingredients are listed cobalt

**CAA Accidental Release Prevention** 

The Following ingredients are listed cobalt

**OSHA** Highly Hazardous Chemicals

The Following ingredients are listed cobalt

#### **US State Regulations**

### California Proposition 65 Carcinogens and Reproductive Toxins

The Following ingredients are listed cobalt

California Air Toxics "Hot Spots" (A-I)

The Following ingredients are listed sodium hydroxide

#### California Air Toxics "Hot Spots" (A-Ii)

The Following ingredients are listed

### Massachusetts "Right To Know" List

The Following ingredients are listed sodium hydroxide

sodium metabisulphite potassium hydroxide

cobalt

## Rhode Island "Right To Know" List

The Following ingredients are listed sodium hydroxide

potassium hydroxide

cobalt

## Minnesota "Right To Know" List

The Following ingredients are listed sodium hydroxide

sodium metabisulphite potassium hydroxide

cobalt

### New Jersey "Right To Know" List

The Following ingredients are listed sodium hydroxide

sodium metabisulphite potassium hydroxide

cobalt

## Pennsylvania "Right To Know" List

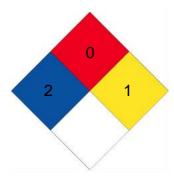
The Following ingredients are listed sodium hydroxide

sodium metabisulphite potassium hydroxide

cobalt

# **SECTION 16: OTHER INFORMATION**

# NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)



## **HAZARDOUS MATERIAL INFORMATION SYSTEM (HMIS)**

Health	2
Flammability	0
Physical Hazard	1
Personal Protection	В

**Revision Comments** 

Revision Date 5/15/2015 Revision I

## Disclaimer

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