Product HSI 2466
Revision Date 5/15/2015

Revision 1



### **Safety Data Sheet**

# **SECTION 1: IDENTIFICATION**

Product Name HSI 2466
Identifier Uses Boiler Treatment.

Supplier HERITAGE SYSTEMS, INC.

2471 Solano Ave., STE 141

Napa, CA 94558 Tel: 707-258-0553

**Emergency Telephone** 24-HOUR EMERGENCY TELEPHONE: INFOTRAC: 1-800-535-5053

### **SECTION 2: HAZARDS IDENTIFICATION**

Appearance Liquid.

Color Clear, light pink liquid.

Odor Sulfite Odor.

Pictogram(s)

Signal Word Danger

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

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

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

sodium metabisulphite potassium hydroxide

**GHS Classification** 

Physical and Chemical Hazards Not classified

Human Health Acute Tox 4 - H302, Skin Irrit.2 - H315, Eye Dam. 1 - H318

Environment Not classified

OSHA Regulatory Status This product is Hazardous under the OSHA Hazard communication Standard.

**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

#### **SECTION 3: Composition/Information on Ingredients**

**Composition Comments** 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.

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

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) No Information available. Flammability Limit - Lower (%) No Information available. Flammability Limit - Upper (%) No Information available. Flash point No Information available.

**Extinguishing Media** Use fire-extinguishing media appropriate for surrounding materials. Water, foam, dry

chemical or carbon dioxide.

**Hazardous combustion products Unusual Fire & Explosion Hazards** Irritating vapors may be emitted during a fire. **Special Fire Fighting Procedures** 

Protective equipment for fire-

fiahters

Combustion may lead to the release of oxides of sulfur.

Use water to cool containers exposed to a fire.

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 onclothing.

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 (	8Hrs.)	STEL (1	I5mins)	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.

**Respiratory Equipment**Use of respirator protection is not generally required. In the case of inadequate ventilation

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 Sensitization
Skin Sensitization
Reproductive Toxicity:
No Information available.
No Information available.
No Information available.

Genotoxicity - In Vivo
Carcinogenicity:

**Genotoxicity - In Vitro** 

Carcinogenicity No Information available.

NTP - Carcinogenicity

OSHA - Carcinogenicity

The product and its components are not listed.

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 - Fish LC50 96 Hours >350.00ppm Onchorhynchus mykiss (Rainbow Trout)

Acute Toxicity - Aquatic

Invertebrates

LC50 48 Hours >1400.00ppm Daphnia magna

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

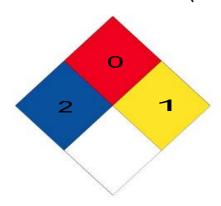
Pennsylvania "Right To Know" List

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)**



Revision Comments Revision Date Revision

5/15/2015

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#### Disclaimer

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