

Product BW573
 Revision Date 07/24/2015
 Revision 2



Safety Data Sheet

SECTION 1: IDENTIFICATION

Product Name	BW573
Identifier Uses	Boiler Treatment.
Supplier	Cannon Water Technology, Inc. 233 Technology Way, Suite 9 Rocklin, California 95765 Tel: 916-315-2691
Contact Person	csd@cannonwater.com
Emergency Telephone	24-HOUR EMERGENCY TELEPHONE: CHEMTEL: 1-800-255-3924 CONTRACT # MIS0001465

SECTION 2: HAZARDS IDENTIFICATION

Appearance	Liquid.
Color	Light Pink.
Odor	Sulfite Odor.

Pictogram(s)



Signal Word	Danger
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Hazard Statements	H318 Causes serious eye damage. H302 Harmful if swallowed.
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Precautionary Statements	P264 Wash [*] thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P280 Wear protective gloves/ protective clothing/eye protection/face protection. P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
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Contains	Sodium metabisulphite
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GHS Classification	
Physical and Chemical Hazards	Not classified
Human Health	Eye Dam. 1 - H318, Acute Tox 4 - H302
Environment	Not classified

OSHA Regulatory Status	This Product is Hazardous under the OSHA Hazard Communication Standard.
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Inhalation	Irritating to respiratory system. High concentrations of vapors may irritate respiratory system and lead to headache, fatigue, nausea and vomiting. Risk of pulmonary edema. Coughing, burning behind the sternum, tears and burning in the eyes and nose can occur.
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Ingestion	May cause chemical burns in mouth and throat. Harmful if swallowed.
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Skin contact	Corrosive! Can cause redness, pain, and severe skin burns.
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Eye contact	Extreme irritation of eyes and mucous membranes, including burning and tearing. Causes serious eye damage.
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Routes of Exposure	No Information available.
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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

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

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Corrosive! Can cause redness, pain, and severe skin burns.

Eye contact

Extreme irritation of eyes and mucous membranes, including burning and tearing. Causes serious eye damage.

Routes of Exposure

No Information available.

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

Oxides of Sulphur Dioxide.

Unusual Fire & Explosion Hazards

Fire may cause irritating or corrosive fumes.

Special Fire Fighting Procedures

Use water to cool containers exposed to a fire. Avoid breathing fire vapors.

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. Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Flush with plenty of water to clean spillage area. Do not contaminate water sources or sewer. Place into chemical waste container for disposal according to local, state or federal regulations. Neutralize residue with lime or soda ash and flush spill area. **DO NOT TOUCH SPILLED MATERIAL!** Wash thoroughly after dealing with a spillage.

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 oxidizing agents and strong acids. Keep away from oxides of sulfur.
Specific End Use(s)	The identified uses are in section I of this Safety Data Sheet.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**Protective Equipment**

Component	STD	TWA (8 Hrs)	STEL (15mins)	Notes
sodium hydroxide	OSHA	2 mg/m ³		
cobalt	OSHA	0.1 mg/m ³		

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. However, if exposure is above the stated limits or ventilation is inadequate, use a NIOSH approved acid gas/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	When handling this product, it is recommended to wear chemical resistant gloves. The choice of suitable protective gloves depends on work conditions and what chemicals are handled, but we have positive experience with gloves made of Rubber or PVA.
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**9.1 Information on Basic Physical and Chemical Properties**

Appearance	Liquid.
Color	Light Pink.
Odor	Sulfite Odor.
Odor Threshold - Lower	No Information available.

Odor Threshold - Upper	No Information available.
pH-Value, Conc. Solution	4.4
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	1.32 @ 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	Do not mix with other chemicals unless listed on directions. Keep away from strong oxidizing materials and strong acids.

SECTION 11: TOXICOLOGICAL INFORMATION

Toxicological Information	This product contains sodium metabisulphite, which can allergic reactions in some sensitive individuals.
Acute Toxicity (Oral LD50)	>500 mg/kg Rat
Acute Toxicity (Dermal LD50)	>350 mg/kg Rabbit
Acute Toxicity (Inhalation LD50)	Not determined.
Skin Corrosion/Irritation	Not determined.
Respiratory Sensitization	No Information available.
Skin Sensitization	No Information available.

Reproductive Toxicity: No Information available.

**Germ Cell
Mutagenicity: Geno
toxicity - In Vitro Geno
toxicity - In Vivo**

Carcinogenicity:

Carcinogenicity

NTP - Carcinogenicity

OSHA - Carcinogenicity

IARC Carcinogenicity

The product and its components are not listed.

The product and its components are not listed.

Contains a substance (Cobalt) listed as

Carcinogenic to humans or possibly carcinogenic to humans. IARC Group 2B

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	LD50 Inhalation
sodium hydroxide		1350 mg/kg Rabbit	
sodium metabisulphite	1131 mg/kg Rat		
cobalt	6170 mg/kg Rat		

SECTION 12: ECOLOGICAL INFORMATION

Eco toxicity No Information available.

Acute Toxicity - Fish LC50 96 Hours >330.00ppm Onchorhynchus mykiss (Rainbow Trout)

Acute Toxicity - Aquatic Invertebrates LC50 48 Hours >200.00ppm Daphnia magna

Acute Toxicity - Aquatic Plants No Information available.

Degradability

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 No Information available.

Name	Acute Toxicity (Fish)	Acute Toxicity (Aquatic)	Acute Toxicity (Aquatic Plants)
sodium hydroxide		EC50 100 ppm Daphnia magna	
sodium metabisulphite			

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.

DOR 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
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

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
cobalt

Rhode Island "Right To Know" List

The Following ingredients are listed sodium hydroxide
cobalt

Minnesota "Right To Know" List

The Following ingredients are listed

sodium hydroxide
sodium metabisulphite
cobalt**New Jersey "Right To Know" List**

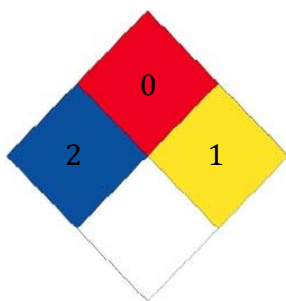
The Following ingredients are listed

sodium hydroxide
sodium metabisulphite
cobalt**Pennsylvania "Right To Know" List**

The Following ingredients are listed

sodium hydroxide
sodium metabisulphite
cobalt

SECTION 16: OTHER INFORMATION

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)**HAZARDOUS MATERIAL INFORMATION SYSTEM (HMIS)**

HEALTH	2
FLAMMABILITY	0
PHYSICAL HAZARD	1
PERSONAL PROTECTION	B

Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.