

Product BW475  
 Revision Date 06/12/2015  
 Revision 1



## Safety Data Sheet

### SECTION 1: IDENTIFICATION

<b>Product Name</b>	<b>BW475</b>
<b>Identifier Uses</b>	Boiler Treatment.
<b>Supplier</b>	Cannon Water Technology, Inc. 233 Technology Way, Suite 9 Rocklin, California 95765 Tel: 916-315-2691
<b>Contact Person</b>	<a href="mailto:csd@cannonwater.com">csd@cannonwater.com</a>
<b>Emergency Telephone</b>	24-HOUR EMERGENCY TELEPHONE: CHEMTEL: 1-800-255-3924 CONTRACT # MIS0001465

### SECTION 2: HAZARDS IDENTIFICATION

<b>Appearance</b>	Clear, colorless liquid.
<b>Color</b>	Clear, colorless.
<b>Odor</b>	Odorless.

**Pictogram(s)**



<b>Signal Word</b>	Danger
<b>Hazard Statements</b>	H302 Harmful if swallowed. H315 Causes skin irritation. H318 Causes serious eye damage.

<b>Precautionary Statements</b>	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. 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 P332 + P313 If skin irritation occurs: Get medical advice/attention.
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<b>Contains</b>	sodium hydroxide sodium metabisulphite
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<b>GHS Classification</b>	
<b>Physical and Chemical Hazards</b>	Not classified
<b>Human Health</b>	Acute Tox 4 - H302, Skin Irrit.2 - H315, Eye Dam. 1 - H318
<b>Environment</b>	Not classified

<b>OSHA Regulatory Status</b>	This product is Hazardous under the OSHA Hazard communication Standard.
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<b>Inhalation</b>	Inhalation of vapors or fumes may be irritating to mucous membranes and respiratory tract. Avoid contact.
<b>Ingestion</b>	Exposure to liquid product is not expected to result in significant adverse effects.
<b>Skin contact</b>	Exposure to liquid product may cause slight to moderate irritation to skin. Symptoms of exposure may include redness, swelling or pain.
<b>Eye contact</b>	Exposure to liquid product may cause slight to moderate irritation to eyes. Symptoms of exposure may include redness, swelling, tearing or pain.
<b>Routes of Exposure</b>	No Information available.

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


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**Composition Comments**

Confidential business information has been removed without affecting the overall safety information on the safety data sheet.

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**SECTION 4: FIRST AID MEASURES**


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Description of first aid measures**General Information**

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

**Inhalation**

If this product is inhaled and symptoms occur, move the exposed person to fresh air promptly. Seek medical attention if symptoms persist.

**Ingestion**

If this product is ingested, drink small amounts of water and seek medical attention promptly. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

**Skin contact**

If this product contacts the skin, immediately flush the affected area with soap and water for at least fifteen (15) minutes. If the product penetrates the clothing, promptly remove the contaminated clothing or shoes, and flush the affected area as described. Seek medical attention if irritation persists.

**Eye contact**

If this product contacts the eyes, immediately flush eyes with plenty of clean running water for at least fifteen (15) minutes, lifting the upper and lower eyelids occasionally. Remove contact lenses if worn. Seek medical attention if irritation persists.

Most important symptoms and effects, both acute and delayed**General Information**

No information available

**Inhalation**

Inhalation of vapors or fumes may be irritating to mucous membranes and respiratory tract. Avoid contact.

**Ingestion**

Exposure to liquid product is not expected to result in significant adverse effects.

**Skin contact**

Exposure to liquid product may cause slight to moderate irritation to skin. Symptoms of exposure may include redness, swelling or pain.

**Eye contact**

Exposure to liquid product may cause slight to moderate irritation to eyes. Symptoms of exposure may include redness, swelling, tearing or pain.

**Routes of Exposure**

No Information available.

Most important symptoms and effects, both acute and delayed**Notes to the Physician**

Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

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**SECTION 5: FIREFIGHTING MEASURES**


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**Auto Ignition Temperature (°C)**

No Information available.

**Flammability Limit-Lower (%)**

No Information available.

**Flammability Limit-Upper (%)**

No Information available.

**Flashpoint**

No Information available.

**Extinguishing Media**

Use water, foam, dry chemical or carbon dioxide to extinguish fire.

**Hazardous combustion products**

Combustion may lead to the release of sulfur oxides.

**Unusual Fire & Explosion Hazards**

Irritating vapors may be emitted during a fire.

**Special Fire Fighting Procedures**

Use water to cool containers exposed to a fire.

**Protective equipment for fire-fighters**

Fire fighters should wear full protective equipment, and have self-contained breathing apparatus available.

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**SECTION 6: ACCIDENTAL RELEASE MEASURES**


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**Personal Precautions**

Use proper personal protection (refer to Section 8).

**Environmental Precautions**

Run off from fire control or dilution water may cause pollution. Keep out of drains, municipal sewers, open bodies of water and water course.

**Spill Clean Up Methods**

Safely stop source of spill. Clean up spills immediately. Restrict non-essential personnel from the area. Wear protective clothing, goggles and respirator if ventilation is not adequate. Neutralize the spilled material with lime or soda ash. 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

<b>Handling</b>	Use proper personal protection when handling (refer to Section 8). Use under well-ventilated conditions. Avoid contact with eyes, skin and clothing. Avoid breathing vapors and mists. Avoid prolonged or repeated contact. Do NOT ingest. Wash thoroughly after handling. Rinse container before disposal.
<b>Usage Description</b> <b>Storage Precautions</b>	Use only according to directions. The recommended shelf life is two (2) years. It is recommended that products be retested if stored for more than two (2) years. Under ideal storage conditions, the shelf life is almost indefinite.
<b>Specific End Use(s)</b>	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		2mg/m3	

**Ingredient Comments** OSHA

<b>Process Conditions</b>	Provide eyewash, quick drench.
<b>Engineering Measures</b>	General mechanical ventilation is recommended for enclosed areas.
<b>Respiratory Equipment</b>	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.
<b>Hand Protection</b>	Use rubber or plastic gloves to minimize skin contact.
<b>Eye Protection</b>	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.
<b>Hygiene Measures</b>	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

<b>Appearance</b>	Clear, colorless liquid.
<b>Color</b>	Clear, colorless.
<b>Odor</b>	Odorless.
<b>Odor Threshold -Lower</b>	No Information available.
<b>Odor Threshold - Upper</b>	No Information available.
<b>pH-Value, Conc. Solution</b>	4.7
<b>Melting point</b>	32.0 °F
<b>Initial boiling point and boiling range</b>	212.0 °F
<b>Flashpoint</b>	No Information available.
<b>Evaporation rate</b>	No Information available.

<b>Flammability State</b>	No Information available.
<b>Flammability Limit-Lower (%)</b>	No Information available.
<b>Flammability Limit-Upper (%)</b>	No Information available.
<b>Vapor pressure</b>	No Information available.
<b>Vapor Density (air=1)</b>	No Information available.
<b>Relative density</b>	1.31 @ 68.0 °F
<b>Bulk Density</b>	No Information available.
<b>Solubility</b>	Completely soluble in water.
<b>Decomposition temperature</b>	No Information available.
<b>Partition coefficient; n-octanol/water</b>	No Information available.
<b>Auto Ignition Temperature (°C)</b>	No Information available.
<b>Viscosity</b>	No Information available.
<b>Explosive Properties</b>	No information available.
<b>Oxidizing Properties</b>	No Information available.
<b>Molecular Weight</b>	No Information available.
<b>Volatile Organic Compound</b>	No Information available.

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## SECTION 10: STABILITY AND REACTIVITY

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<b>Reactivity</b>	Reactions may occur with strong oxidizing materials and strong acids.
<b>Stability</b>	This product is stable at ambient temperatures and atmospheric pressures.
<b>Hazardous Polymerization</b>	Hazardous polymerization is not expected to occur under normal temperatures and pressures.
<b>Hazardous Decomposition Products</b>	Sulfur oxides.
<b>Conditions to Avoid</b>	Avoid contact with strong oxidizing materials and strong acids.
<b>Materials to Avoid</b>	Keep away from strong oxidizing materials and strong acids.

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## SECTION 11: TOXICOLOGICAL INFORMATION

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<b>Toxicological Information</b>	No toxicological information for the overall finished product.
<b>Acute Toxicity (Oral LD50)</b>	>2305.00mg/kg Rat
<b>Acute Toxicity (Dermal LD50)</b>	>2690.00mg/kg Rabbit
<b>Acute Toxicity (Inhalation LC50)</b>	No Information available.
<b>Skin Corrosion/Irritation</b>	No Information available.
<b>Respiratory Sensitization</b>	No Information available.
<b>Skin Sensitization</b>	No Information available.
<b>Reproductive Toxicity:</b>	No Information available.
<b>Germ Cell Mutagenicity:</b>	
<b>Genotoxicity - In Vitro</b>	
<b>Genotoxicity - In Vivo</b>	
<b>Carcinogenicity:</b>	
<b>Carcinogenicity</b>	No Information available.
<b>NTP - Carcinogenicity</b>	The product and its components are not listed.

**OSHA - Carcinogenicity** The product and its components are not listed.  
**IARC Carcinogenicity** The product and its components are not listed.

**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
sodium hydroxide		1350mg/kg Rabbit	
sodium chloride	3g/kg Rat	10g/kg Rabbit	42g/m3 Rat 1 Hours

## SECTION 12: ECOLOGICAL INFORMATION

**Ecotoxicity** 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** No information available.

**Bioaccumulative Potential**

**Mobility** Completely soluble in water.

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

**Other Adverse Effects** None known.

Name	Acute Toxicity (Fish)	Acute Toxicity (Aquatic Invertebrates)	Acute Toxicity (Aquatic Plants)
sodium hydroxide		EC50 100.00ppm Daphnia magna	

## 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** 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. Dispose in accordance with all applicable federal, state and local laws and regulations.

## 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.

<b>TDG Label(s)</b>	Not applicable.
<b>IMDG Class</b>	Not applicable.
<b>ICAO Class</b>	Not applicable.
<b>Transport Labels</b>	
<b>DOT PackGroup</b>	Not applicable.
<b>IMDG Pack Group</b>	Not applicable.
<b>Air Pack Group</b>	Not applicable.
<b>EMS</b>	Not applicable.
<b>Environmentally Hazardous Substance/Marine Pollutant</b>	No

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## SECTION 15: REGULATORY INFORMATION

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### US Federal Regulations

#### **SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities**

The Following ingredients are listed      None Listed.

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

The Following ingredients are listed      sodium hydroxide

#### **SARA Extremely Hazardous Substances EPCRA Reportable Quantities**

The Following ingredients are listed      None Listed.

#### **SARA 313 Emission Reporting**

The Following ingredients are listed      None Listed.

#### **CAA Accidental Release Prevention**

The Following ingredients are listed      None Listed.

#### **OSHA Highly Hazardous Chemicals**

The Following ingredients are listed      None Listed.

### US State Regulations

#### **California Proposition 65 Carcinogens and Reproductive Toxins**

The Following ingredients are listed      None Listed.

#### **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      None Listed.

#### **Massachusetts "Right To Know" List**

The Following ingredients are listed      sodium hydroxide  
sodium metabisulphite

#### **Rhode Island "Right To Know" List**

The Following ingredients are listed      sodium hydroxide

#### **Minnesota "Right To Know" List**

The Following ingredients are listed      sodium hydroxide  
sodium metabisulphite

#### **New Jersey "Right To Know" List**

The Following ingredients are listed      sodium hydroxide  
sodium metabisulphite

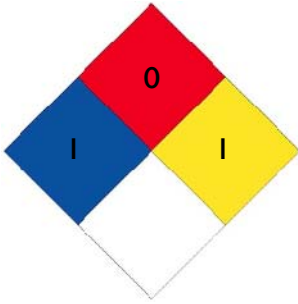
#### **Pennsylvania "Right To Know" List**

The Following ingredients are listed      sodium hydroxide  
sodium metabisulphite

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**SECTION 16: OTHER INFORMATION**

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

Health	1
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.