

Product CS496  
 Revision Date 08/23/2016  
 Revision 2



## Safety Data Sheet

### SECTION 1: IDENTIFICATION

<b>Product Name</b>	<b>CS496</b>
<b>Identifier Uses</b>	Closed Loop Treatment.
<b>Supplier</b>	Cannon Water Technology, Inc 233 Technology Way, Suite 9 Rocklin, CA 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

### SECTION 2: HAZARDS IDENTIFICATION

<b>Appearance</b>	Liquid.
<b>Color</b>	Dark Yellow.
<b>Odor</b>	Musty.

**Pictogram(s)**



<b>Signal Word</b>	Warning
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<b>Hazard Statements</b>	H302 Harmful if swallowed. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. H361 Suspected of damaging fertility or the unborn child [*]. H401 Toxic to aquatic life.
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<b>Precautionary Statements</b>	P201 Obtain special instructions before use. P264 Wash hands thoroughly after handling. P281 Use personal protective equipment as required. P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308 + P313 IF exposed or concerned: Get medical advice/ attention.
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<b>Contains</b>	benzotriazole propan-2-ol isopropyl alcohol isopropanol sodium nitrite BORIC ACID (HBO <sub>2</sub> ), SODIUM SALT, TETRAHYDRATE SODIUM METABORATE TETRAHYDRATE sodium oxido(oxo)borane
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<b>GHS Classification</b>	
<b>Physical and Chemical Hazards</b>	Not classified
<b>Human Health</b>	Acute Tox 4 - H302, Eye Irrit. 2A - H319, Repr. 2 - H361, STOT SE 3 - H336,
<b>Environment</b>	Aquatic Acute 2 - H401

<b>OSHA Regulatory Status</b>	This product is Hazardous under the OSHA Hazard communication Standard.
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<b>Inhalation</b>	No specific symptoms noted.
<b>Ingestion</b>	Harmful if swallowed.
<b>Skin contact</b>	No specific symptoms noted.
<b>Eye contact</b>	May cause serious eye irritation.
<b>Routes of Exposure</b>	No Information available.

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### SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

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<b>Composition Comments</b>	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

<b>General Information</b>	General first aid, rest, warmth and fresh air.
<b>Inhalation</b>	If this product is inhaled and symptoms occur, move the exposed person to fresh air promptly. Seek medical attention if symptoms persist.
<b>Ingestion</b>	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.
<b>Skin contact</b>	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.
<b>Eye contact</b>	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

<b>General Information</b>	No information available
<b>Inhalation</b>	No specific symptoms noted.
<b>Ingestion</b>	Harmful if swallowed.
<b>Skin contact</b>	No specific symptoms noted.
<b>Eye contact</b>	May cause serious eye irritation.
<b>Routes of Exposure</b>	No Information available.

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

<b>Notes to the Physician</b>	Treat Symptomatically
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### SECTION 5: FIREFIGHTING MEASURES

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<b>Auto Ignition Temperature (°C)</b>	No Information available.
<b>Flammability Limit-Lower (%)</b>	No Information available.
<b>Flammability Limit-Upper (%)</b>	No Information available.
<b>Flashpoint</b>	No Information available.
<b>Extinguishing Media</b>	Use water, foam, dry chemical or carbon dioxide to extinguish fire.
<b>Hazardous combustion products</b>	Oxides of nitrogen. May leave a caustic residue.
<b>Unusual Fire &amp; Explosion Hazards</b>	Dried residue can stimulate the combustion of organic materials.
<b>Special Fire Fighting Procedures</b>	Use water to cool containers exposed to a fire.
<b>Protective equipment for fire-fighters</b>	Fire fighters should wear full protective equipment, including a self-contained breathing apparatus.

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### SECTION 6: ACCIDENTAL RELEASE MEASURES

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<b>Personal Precautions</b>	Use proper personal protection (refer to Section 8).
<b>Environmental Precautions</b>	Run off from fire control or dilution water may cause pollution. Keep out of drains, municipal sewers, open bodies of water and water course.
<b>Spill Clean Up Methods</b>	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. Dike spill area and soak up material with sand or other absorbent. Place into chemical waste

container for disposal according to local, state or federal regulations. Flush spill area with 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>	Use only according to directions.
<b>Storage Precautions</b>	The recommended storage temperature is above 32°F, preferably at room temperature (70°F). Keep container tightly closed. Do not store in heat or direct sunlight. Keep in dry, cool, and well ventilated place. The recommended storage temperature is 34°F to 129 °F, preferably at room temperature 70 °F. Keep in original container.
<b>Specific End Use(s)</b>	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 (15mins)		Notes
propan-2-ol isopropylalcohol isopropanol	OSHA	400ppm	980mg/m3			

### Ingredient Comments

OSHA

### Process Conditions Engineering Measures Respiratory Equipment

Keep container tightly sealed when not in use. Provide eyewash, quick drench. General mechanical ventilation is recommended for enclosed areas. 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 Eye Protection

Use rubber or plastic gloves to minimize skin contact. To avoid contact with eyes, use chemical splash goggles. 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

<b>Appearance</b>	Liquid.
<b>Color</b>	Dark Yellow.
<b>Odor</b>	Musty.
<b>Odor Threshold -Lower</b>	No Information available.
<b>Odor Threshold - Upper</b>	No Information available.
<b>pH-Value, Conc. Solution</b>	8.5
<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>	23.75 mm Hg 0.00
<b>Vapor Density (air=1)</b>	No Information available.
<b>Relative density</b>	9.50 @ 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 acids, strong reducing agents, ammonia salts, amines, phthalic acid and cyanides.
<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>	Oxides of nitrogen. May leave a caustic residue.
<b>Conditions to Avoid</b>	Avoid contact with strong acids, strong reducing agents, ammonia salts, amines, phthalic acid and cyanides.
<b>Materials to Avoid</b>	Keep away from strong acids, strong reducing agents, ammonia salts, amines, phthalic acid and cyanides.

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## SECTION 11: TOXICOLOGICAL INFORMATION

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<b>Toxicological Information</b>	No Information available.
<b>Acute Toxicity (Oral LD50)</b>	>1295.00mg/kg Rat
<b>Acute Toxicity (Dermal LD50)</b>	>592.00mg/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.
<b>OSHA - Carcinogenicity</b>	The product and its components are not listed.
<b>IARC Carcinogenicity</b>	propan-2-ol isopropyl alcohol isopropanol: 3 IARC Group 3 Not classifiable as to its carcinogenicity to humans.
<b>Specific Target Organ Toxicity - Single Exposure:</b>	
<b>STOT - Single Exposure</b>	No Information available.
<b>Specific Target Organ Toxicity - Repeated Exposure:</b>	
<b>STOT - Repeated Exposure</b>	No Information available.

Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
benzotriazole	675mg/kg Rat	>2000mg/kg Rabbit	
propan-2-ol isopropyl alcohol isopropanol	5480mg/kg Rat	13000mg/kg Rabbit	
sodium nitrite	157.9mg/kg Rat 175mg/kg Mouse 186mg/kg Rabbit 85mg/kg Rat		5.5mg/l (vapors) Rat 4 Hours
BORIC ACID (HBO <sub>2</sub> ), SODIUM SALT, TETRAHYDRATE SODIUM METABORATE TETRAHYDRATE sodium oxido(oxo)borane	2330mg/kg Rat		

## SECTION 12: ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	No Information available.
<b>Acute Toxicity - Fish</b>	LC50 96 Hours >7600.00ppm Onchorhynchus mykiss (Rainbow Trout)
<b>Acute Toxicity - Aquatic Invertebrates</b>	LC50 48 Hours >960.00ppm Daphnia magna
<b>Acute Toxicity - Aquatic Plants</b>	EC50 72 Hours >190.00ppm
<b>Degradability</b>	
<b>Bioaccumulative Potential</b>	No data available on bioaccumulation.
<b>Mobility</b>	No information available.
<b>Results of PBT &amp; vPvB Assessment</b>	No information available
<b>Other Adverse Effects</b>	No information available.

Name	Acute Toxicity (Fish)	Acute Toxicity (Aquatic)	Acute Toxicity (Aquatic)
benzotriazole	LC50 96 Hours 21.40mg/l Onchorhynchus mykiss (Rainbow Trout)		
sodium nitrite	LC50 96 Hours 0.13mg/l Onchorhynchus mykiss (Rainbow Trout)	EC50 48 Hours 100.00mg/l Daphnia magna	

## SECTION 13: DISPOSAL CONSIDERATIONS

<b>Waste Management</b>	When handling waste, consideration should be made to the safety precautions applying to handling of the product.
<b>Disposal Methods</b>	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**

<b>UN No. (DOT/TDG)</b>	Not applicable.
<b>UN No. (IMDG)</b>	Not applicable.
<b>UN No. (ICAO)</b>	Not applicable.
<b>DOT Proper Shipping Name</b>	Not applicable.
<b>TDG Proper Shipping Name</b>	Not applicable.
<b>DOT Hazard Class</b>	Not applicable.
<b>DOT Hazard Label</b>	Not applicable.
<b>TDG Class</b>	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

**SECTION 15: REGULATORY INFORMATION**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      None Listed.

**SARA Extremely Hazardous Substances EPCRA Reportable Quantities**

The Following ingredients are listed      None Listed.

**SARA 313 Emission Reporting**

The Following ingredients are listed      propan-2-ol isopropyl alcohol isopropanol

**CAA Accidental Release Prevention**

The Following ingredients are listed      sodium nitrite

**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      None Listed.

**California Air Toxics "Hot Spots" (A-II)**

The Following ingredients are listed      None Listed.

**Massachusetts "Right To Know" List**

The Following ingredients are listed

benzotriazole  
propan-2-ol isopropyl alcohol isopropanol  
sodium nitrite

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

The Following ingredients are listed

propan-2-ol isopropyl alcohol isopropanol

**Minnesota "Right To Know" List**

The Following ingredients are listed

propan-2-ol isopropyl alcohol isopropanol

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

The Following ingredients are listed

benzotriazole  
propan-2-ol isopropyl alcohol isopropanol  
sodium nitrite

**Pennsylvania "Right To Know" List**

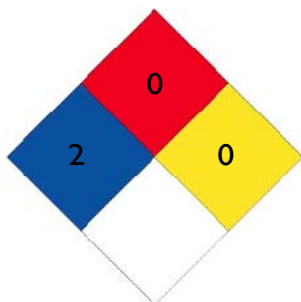
The Following ingredients are listed

propan-2-ol isopropyl alcohol isopropanol  
sodium nitrite

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**SECTION 16: OTHER INFORMATION**

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

Health	2
Flammability	0
Physical Hazard	0
Personal Protection	C

**Revision Comments****Revision Date**

08/23/2016

**Revision**

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**Disclaimer**

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