

Product 4490  
 Revision Date 07/28/2016  
 Revision 2



## Safety Data Sheet

### SECTION 1: IDENTIFICATION

<b>Product Name</b>	<b>4490</b>
<b>Identifier Uses</b>	Cooling Water Treatment.
<b>Supplier</b>	Chemicals Inc. 13560 Colombar Court Fontana, California 92337 Tel: 951-681-9697
<b>Website</b>	info@cheminc.com
<b>Emergency Telephone</b>	24-HOUR EMERGENCY TELEPHONE: INFOTRAC: 1-800-535-5053 INTERNATIONAL#: 1-352-323-3500

### SECTION 2: HAZARDS IDENTIFICATION

<b>Appearance</b>	Clear colorless liquid.
<b>Color</b>	Clear colorless liquid.
<b>Odor</b>	Musty.

**Pictogram(s)**



<b>Signal Word</b>	Danger
<b>Hazard Statements</b>	H318 Causes serious eye damage. H315 Causes skin irritation. H303 May be harmful if swallowed

<b>Precautionary Statements</b>	P280 Wear protective gloves/ protective clothing/eye protection/face protection. P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P332 + P313 If skin irritation occurs: Get medical advice/attention. 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
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<b>Contains</b>	potassium hydroxide etidronic acid phosphonic acid
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<b>GHS Classification</b>	
<b>Physical and Chemical Hazards</b>	Not classified
<b>Human Health</b>	Acute Tox 5 - H303, Eye Dam. 1 - H318, Skin Irrit.2 - H315
<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>	No specific symptoms noted, inhalation is not believed to be a likely route of exposure.
<b>Ingestion</b>	Harmful if swallowed.
<b>Skin contact</b>	Skin irritation. May cause irritation, redness, and pain.
<b>Eye contact</b>	Causes serious eye damage, irritation of eyes may cause redness, swelling, pain and tearing.
<b>Routes of Exposure</b>	No Information available.

**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**

No identified hazard associated with inhalation.

**Ingestion**

Do NOT induce vomiting unless directed to do so by medical personnel. Rinse mouth thoroughly. Get medical attention if any discomfort continues.

**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. If this product contacts the skin, immediately flush the affected area with plenty of clean running water for at least fifteen (15) minutes.

**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. Immediately flush with plenty of water for up to 15 minutes.

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**

Skin irritation. May cause irritation, redness, and pain.

**Eye contact**

Causes serious eye damage. Irritation of eyes may cause redness, swelling, pain and tearing.

**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.

**Flashpoint**

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 carbon, possibly toxic phosphines.

**Unusual Fire & Explosion Hazards**

Dried residue can thermally decompose, giving off irritating and possibly toxic fumes.

**Special Fire Fighting Procedures**

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**

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. For small spills, neutralize with baking soda and flush to sewer. For large spills, 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. Neutralize residue with lime or soda ash and flush spill area.

**SECTION 7: HANDLING AND STORAGE****Handling**

Use proper personal protection when handling. Provide good ventilation. Avoid contact with skin and eye and clothing. Do not use contact lenses. Avoid inhalation of vapors and

<b>Usage Description</b>	mists. Avoid prolonged or repeated contact. Do NOT ingest. Wash thoroughly after handling. Rinse container before disposal.
<b>Storage Precautions</b>	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.
<b>Specific End Use(s)</b>	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 carbon, possibly toxic phosphines. The identified uses are in section I of this Safety Data Sheet.

## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

### Protective Equipment



### Ingredient Comments

No information for the control parameters

### Process Conditions Engineering Measures Respiratory Equipment

Provide eyewash, quick drench.

Provide adequate ventilation.

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. 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

<b>Appearance</b>	Clear colorless liquid.
<b>Color</b>	Clear colorless liquid.
<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>	5.0
<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>	23.8 mm Hg 0.0
<b>Vapor Density (air=1)</b>	No Information available.
<b>Relative density</b>	9.80 @ 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 alkali and oxidizing materials.
<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>	Hazardous decomposition will result in the release of oxides of sulfur.
<b>Conditions to Avoid</b>	Avoid exposing to heat and contact with oxides of carbon, possibly toxic phosphines.
<b>Materials to Avoid</b>	Do not mix with other chemicals unless listed on directions. 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>	>2984.00mg/kg Rat
<b>Acute Toxicity (Dermal LD50)</b>	>1034.00mg/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>	The product and its components are not listed.
<b>Specific Target Organ Toxicity - Single Exposure:</b>	
<b>STOT - Single Exposure</b>	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		

## SECTION 12: ECOLOGICAL INFORMATION

**Ecotoxicity** No Information available.

**Acute Toxicity - Fish** LC50 96 Hours >2070.00ppm Onchorhynchus mykiss (Rainbow Trout)  
**Acute Toxicity - Aquatic Invertebrates** LC50 48 Hours >2655.00ppm 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.

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

<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      potassium 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      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      potassium hydroxide

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

The Following ingredients are listed      potassium hydroxide

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

The Following ingredients are listed      potassium hydroxide

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

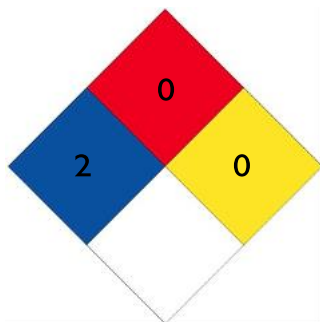
The Following ingredients are listed      potassium hydroxide  
phosphonic acid

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

The Following ingredients are listed      potassium hydroxide  
phosphonic acid

**SECTION 16: OTHER INFORMATION**

**NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)**



**HAZARDOUS MATERIAL INFORMATION SYSTEM (HMIS)**

Health	2
Flammability	0
Physical Hazard	0
Personal Protection	B

**Revision Comments**

**Revision Date** 07/28/2016  
**Revision** 2

**Disclaimer**

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