



SAFETY DATA SHEET

Section 1. Chemical Product and Company Identification

Product Name: ChemTreat CL4432
Product Use: Cooling Water Treatment

Supplier's Name: ChemTreat, Inc.

Emergency Telephone Number: (800)424–9300 (Toll Free)

Address (Corporate Headquarters): 5640 Cox Road

Glen Allen, VA 23060

Telephone Number for Information: (800)648–4579
Date of SDS: April 24, 2017
Revision Date: April 24, 2017
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Section 2. Hazard(s) Identification

Signal Word: DANGER

GHS Classification(s): Skin corrosion/irritation – Category 1b

Eye damage/irritation – Category 1 Acute Toxicity Dermal – Category 4 Acute Toxicity Inhalation – Category 4 Acute Toxicity Oral – Category 4

Hazard Statement(s): H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage. H312 Harmful in contact with skin.

H332 Harmful if inhaled. H302 Harmful if swallowed.

Precautionary Statement(s):

Prevention: P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P264 Wash thoroughly after handling.

P270 Do not eat, drink, or smoke when using this product. P271 Use only outdoors or in a well–ventilated area. P280 Wear protective gloves/protective clothing/eye

protection/face protection.





Response: P301 + P312 IF SWALLOWED: Call a POISON

CENTER or doctor/physician if you feel unwell P301 + 330 + 331 IF SWALLOWED: Rinse mouth.

Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair):

Remove/take off immediately all contaminated clothing.

Rinse skin with water/shower

P304 + P340 IF INHALED: Remove person to fresh

air and keep 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. P310 Immediately call a POISON CENTER/doctor. P363 Wash contaminated clothing before reuse.

Storage: P405 Store locked up.

Disposal: P501 Dispose of contents and container in accordance

with applicable local, regional, national, and/or

international regulations.

System of Classification Used: Classification under 2012 OSHA Hazard Communication Standard

(29 CFR 1910.1200).

Hazards Not Otherwise

Classified:

None.

Section 3. Composition/Hazardous Ingredients

Component	CAS Registry #	Wt.%
1-Hydroxyethylidene-1,1-diphosphonic acid	2809–21–4	12 – 16

Comments If chemical identity and/or exact percentage of composition has been

withheld, this information is considered to be a trade secret.

Section 4. First Aid Measures

Inhalation: Remove victim to fresh air and keep at rest in a position

comfortable for breathing. Immediately call a poison center or

doctor/physician.

Eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. Immediately

call a poison center or doctor/physician.





Skin: Wash with plenty of soap and water. Call a poison center or

doctor/physician if you feel unwell.

Ingestion: DO NOT INDUCE VOMITING. Rinse mouth. Call a POISON

CENTER or doctor/physician.

Most Important Symptoms: N/D

Indication of Immediate Medical Attention and Special Treatment Needed, If

Necessary:

N/A

Section 5. Fire Fighting Measures

Flammability of the Product: Not flammable.

Suitable Extinguishing Media: Use extinguishing media suitable to surrounding fire.

Specific Hazards Arising from

the Chemical:

None known.

Protective Equipment: If product is involved in a fire, wear full protective clothing

including a positive-pressure, NIOSH approved, self-contained

breathing apparatus.

Section 6. Accidental Release Measures

Personal Precautions: Use appropriate Personal Protective Equipment (PPE).

Environmental Precautions: Avoid dispersal of spilled material and runoff and contact with

soil, waterways, drains, and sewers.

Methods for Cleaning up: Contain and recover liquid when possible. Flush spill area with

water spray.

Other Statements: None.





Section 7. Handling and Storage

Handling: Wear appropriate Personal Protective Equipment (PPE) when

handling this product. Do not get in eyes, or on skin and clothing. Wash thoroughly after handling. Do not ingest. Avoid breathing

vapors, mist or dust.

Store away from incompatible materials (see Section 10). Store

at ambient temperatures. Keep container securely closed when not in use. Label precautions also apply to empty container. Recondition or dispose of empty containers in accordance with government

regulations. For Industrial use only.

Section 8. Exposure Controls/Personal Protection

Exposure Limits

Component	Source	Exposure Limits
1-Hydroxyethylidene-1,1-diphosphonic acid	N/E	N/E

Engineering Controls: Use only with adequate ventilation. The use of local ventilation is

recommended to control emission near the source.

Personal Protection

Eyes: Wear chemical splash goggles or safety glasses with

full-face shield. Maintain eyewash fountain in work area.

Skin: Maintain quick–drench facilities in work area.

Wear butyl rubber or neoprene gloves. Wash them after each use and replace as necessary. If conditions warrant, wear protective clothing such as boots, aprens, and

wear protective clothing such as boots, aprons, and

coveralls to prevent skin contact.

Respiratory: If misting occurs, use NIOSH approved organic vapor/acid

gas dual cartridge respirator with a dust/mist prefilter in

accordance with 29 CFR 1910.134.





Section 9. Physical and Chemical Properties

Physical State and Appearance: Liquid, Light Straw, Clear

Specific Gravity: 1.221 @ 20°C

pH: 1.8 @ 20°C, 100.0%

Freezing Point:

Flash Point:

Odor:

Mild

Melting Point:

Initial Boiling Point and Boiling Range:

212°F

Solubility in Water:

Solubility in Water:

Evaporation Rate:

Vapor Density:

M/A

Molecular Weight:

Complete
N/A

N/A

N/A

Viscosity: <100 CPS @ 20°C

Flammability (solid, gas): N/D
Flammable Limits: N/A
Autoignition Temperature: N/A

Density: 10.18 LB/GA

Vapor Pressure:N/A% VOC:0Odor ThresholdN/Dn-octanol Partition CoefficientN/DDecomposition TemperatureN/D

Section 10. Stability and Reactivity

Chemical Stability: Stable at normal temperatures and pressures.

Incompatibility with Various

Substances:

Strong reducing agents, Strong bases.

Hazardous Decomposition

Products:

Oxides of carbon, Oxides of nitrogen, Oxides of phosphorus.

Possibility of Hazardous

Reactions:

None known.

Reactivity: N/D

Conditions To Avoid: N/D





Section 11. Toxicological Information

Acute Toxicity

Chemical Name	Exposure	Type of Effect	Concentration	Species
1-Hydroxyethylidene-1,1-diphosphonic acid	Oral	LD50	2400 MG/KG	Rat
	Dermal	LD50	7940 MG/KG	Rabbit

Carcinogenicity Category

Component	Source	Code	Brief Description
1-Hydroxyethylidene-1,1-diphosphonic acid	N/E	N/E	N/E

Likely Routes of Exposure: N/D

Symptoms

Inhalation: N/D

Eye Contact: N/D

Skin Contact: N/D

Ingestion: N/D

Skin Corrosion/Irritation: N/D

Serious Eye Damage/Eye N/D

Irritation:

Sensitization: N/D

Germ Cell Mutagenicity: N/D

Reproductive/Developmental

Toxicity:

N/D

Specific Target Organ Toxicity

Single Exposure: N/D

Repeated Exposure: N/D

Aspiration Hazard: N/D

Comments: None.





Section 12. Ecological Information

Ecotoxicity

Species	Duration	Type of Effect	Test Results
Ceriodaphnia dubia	48h	LC50	992 mg/l
Fathead Minnow	96h	LC50	4438 mg/l
	48h	LC50	4438 mg/l
Daphnia pulex	48h	LC50	1387 mg/l
Mysid Shrimp	48h	LC50	5946 mg/l
Inland Silverside	96h	LC50	>10000 mg/l

Persistence and Biodegradability:

N/D

Bioaccumulative Potential:

N/D

Mobility In Soil:

N/D

Other Adverse Effects:

N/D

Comments:

None.

Section 13. Disposal Considerations

Dispose of in accordance with local, state and federal regulations.

EPA corrosivity characteristic hazardous waste D002 when disposed of in the original product form.

Section 14. Transport Information

Controlling					Packing
Regulation	UN/NA#:	Proper Shipping Name:	Technical Name:	Hazard Class:	Group:
DOT	UN3265	CORROSIVE LIQUID, ACIDIC,	(1-HYDROXYETHYLIDENE-1,	8	PGIII
		ORGANIC, N.O.S.	1-DIPHOSPHONIC ACID)		
TDG	UN3265	CORROSIVE LIQUID, ACIDIC,	(1-HYDROXYETHYLIDENE-1,	8	PGIII
		ORGANIC, N.O.S.	1-DIPHOSPHONIC ACID)		
IMDG	UN3265	CORROSIVE LIQUID, ACIDIC,	(1-HYDROXYETHYLIDENE-1,	8	PGIII
		ORGANIC, N.O.S.	1-DIPHOSPHONIC ACID)		

Note: N/A





Section 15. Regulatory Information

Inventory Status

United States (TSCA):
Canada (DSL/NDSL):

All ingredients listed.
All ingredients listed.

Federal Regulations

SARA Title III Rules

Sections 311/312 Hazard Classes

Fire Hazard:

Reactive Hazard:

Release of Pressure:

Acute Health Hazard:

Chronic Health Hazard:

No

Other Sections

	Section 313	Section 302 EHS	
Component	Toxic Chemical	TPQ	CERCLA RQ
1-Hydroxyethylidene-1,1-diphosphonic acid	N/A	N/A	N/A

Comments: None.

State Regulations

California Proposition 65: None known.

Special Regulations

Component	States
1-Hydroxyethylidene-1,1-diphosphonic acid	None.





International Regulations

Canada

WHMIS Classification: D2B (Toxic Material) E (Corrosive Material)

Controlled Product Regulations

(CPR):

This product has been classified in accordance with the hazard criteria of the Controlled Products

Regulations (CPR) and the MSDS contains all

the information required by the CPR.

Compliance Information

NSF: N/A

Food Regulations: N/A

KOSHER: This product is certified by the Orthodox Union as kosher

pareve.

Only when prepared by the following ChemTreat facilities:

Ashland, VA; Eldridge, IA; Nederland, TX.

FIFRA: N/A

Other: None

Comments: None.

Section 16. Other Information

HMIS Hazard Rating

Health: 2
Flammability: 0
Physical Hazard: 0
PPE: X

Notes: The PPE rating depends on circumstances of use. See

Section 8 for recommended PPE.

The Hazardous Material Information System (HMIS) is a voluntary, subjective alpha–numeric symbolic system for recommending hazard risk and personal protection equipment information. It is a subjective rating system based on the evaluator's understanding of the chemical associated risks. The end–user must determine if the code is appropriate for

their use.





Abbreviations

Abbreviation	Definition
<	Less Than
>	Greater Than
ACGIH	American Conference of Governmental Industrial Hygienists
EHS	Environmental Health and Safety Dept
N/A	Not Applicable
N/D	Not Determined
N/E	Not Established
OSHA	Occupational Health and Safety Dept
PEL	Personal Exposure Limit
STEL	Short Term Exposure Limit
TLV	Threshold Limit Value
TWA	Time Weight Average
UNK	Unknown

Prepared by: Product Compliance Department; ProductCompliance@chemtreat.com

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Disclaimer

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