



MATERIAL SAFETY DATA SHEET

Section 1. Chemical Product and Company Identification

Product Name: ChemTreat CL1468 **Product Use:** Cooling Water Treatment

Supplier's Name: ChemTreat, Inc.

Emergency Telephone Number: (800) 424–9300 (Toll Free) (703) 527–3887

Address (Corporate Headquarters): 5640 COX ROAD Glen Allen, VA 23060

Telephone Number for Information: (800) 648-4579 January 5, 2012

Date of MSDS:

Section 2. Hazard(s) Identification

DANGER! Signal Word:

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

Causes serious eye damage. Harmful in contact with skin.

Harmful if inhaled. Harmful if swallowed.

Precautionary Statement(s): Wear protective gloves/clothing and eye/face protection. Do not

breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Use

only outdoors or in a well-ventilated area.

Section 3. Composition/Hazardous Ingredients

Component	CAS Registry #	Wt.%
1-Hydroxyethylidene-1,1-diphosphonic acid, tetrapotassium	14860-53-8	1 – 5
salt		
Tetrapotassium pyrophosphate	7320-34-5	3 – 7
Potassium hydroxide	1310-58-3	1 – 5
Sodium molybdate	7631–95–0	1 – 5
Tolyltriazole, sodium salt	64665-57-2	3 – 7





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: Immediately remove/take off all contaminated clothing. Rinse skin with

water/shower. Wash contaminated clothing before re-use. Immediately

call a poison center or doctor/physician.

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

CENTER or doctor/physician.

Notes to Physician: N/A

Additional First Aid Remarks: 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: If RQ (Reportable Quantity) is exceeded, report to National

Spill Response Office at 1–800–424–8802.





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.

Storage: 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
tetrapotassium salt		
Tetrapotassium pyrophosphate		N/E
Potassium hydroxide	ACGIH TLV	2 mg/m³ Ceiling
Sodium molybdate		N/E
Tolyltriazole, sodium salt		N/E

Carcinogenicity Category

Component	Source	Code	Brief Description
1-Hydroxyethylidene-1,1-diphosphonic acid,			N/E
tetrapotassium salt			
Tetrapotassium pyrophosphate			N/E
Potassium hydroxide			N/E
Sodium molybdate			N/E
Tolyltriazole, sodium salt			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, 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, Dark Straw, Clear

Specific Gravity: 1.225 @ 20°C

pH: 12.9 @ 20°C, 100.0%

Freezing Point:

Flash Point:

Odor:

Mild

Melting Point:

N/A

Boiling Point:

Solubility in Water:

23°F

N/D

Mild

Mild

N/A

212°F

Complete

Evaporation Rate:

Vapor Density:

Molecular Weight:

Viscosity:

Flammable Limits:

Autoignition Temperature:

Comp.

Comp.

N/D

N/D

N/D

N/A

N/A

Density: 10.22 lb/ga **Vapor Pressure:** <17.5

vapor Pressure: <17.5 **% VOC** 0

Section 10. Stability and Reactivity

Chemical Stability: Stable at normal temperatures and pressures.

Incompatibility with Various

Substances:

Strong oxidizers, Acids

Hazardous Decomposition

Products:

Oxides of nitrogen, Oxides of carbon

Possibility of Hazardous

Reactions:

None known.

Section 11. Toxicological Information

Chemical Name	Exposure	Type of Effect	Concentration	Species
1–Hydroxyethylidene–1,1–diphosphonic acid, tetrapotassium salt	Oral	LD50	2400 mg/kg	Rat
	Dermal	LD50	>7940 mg/kg	Rabbit
Tetrapotassium pyrophosphate	Oral	LD50	2980 mg/kg	Rat
	Dermal	LD50	>7940 mg/kg	Rabbit
Potassium hydroxide	Oral	LD50	365 mg/kg	Rat
Sodium molybdate	Oral	LD50	2810 mg/kg	Rat





Tolyltriazole, sodium salt	Oral	LD50	920 mg/kg	Rat
	Dermal	LD50	>2 g/kg	Rabbit

Comments: None.

Section 12. Ecological Information

Species	Duration	Type of Effect	Test Results
Fathead Minnow	96h	LC50	532.13 mg/l
Daphnia magna	48h	LC50	1414.2 mg/l

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

DOT

Proper Shipping Name: POTASSIUM HYDROXIDE SOLUTION

Technical Name: N/A
Hazard Class: Corrosive
UN/NA#: UN1814
Packing Group: PGII

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: No
Reactive Hazard: No
Release of Pressure: No
Acute Health Hazard: Yes
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
tetrapotassium salt			
Tetrapotassium pyrophosphate	N/A	N/A	N/A
Potassium hydroxide	N/A	N/A	1000
Sodium molybdate	N/A	N/A	N/A
Tolyltriazole, sodium salt	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
tetrapotassium salt	
Tetrapotassium pyrophosphate	None
Potassium hydroxide	MA, MN, NY, PA, WA
Sodium molybdate	None
Tolyltriazole, sodium salt	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.





Section 16. Other Information

HMIS Hazard Rating

Health:2Flammability:0Physical Hazard:1PPE: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.

NSF: N/A

FDA: N/A

KOSHER: This product is certified by the Orthodox Union as Kosher for

Passover and year-round use.

Only when prepared by the following ChemTreat facilities: Ashland,

VA; Eldridge, IA; Nederland, TX; Vernon, CA.

FIFRA: N/A

Other: None

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: Regulatory Affairs Department





Disclaimer

Although the information and recommendations set forth herein (hereinafter "information") are presented in good faith and believed to be correct as of the date hereof, ChemTreat, Inc. makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will ChemTreat, Inc. be responsible for damages of any nature whatsoever resulting from the use or reliance upon information. No representation or warranties, either expressed or implied, of merchantability, fitness for a particular purpose, or of any other nature are made hereunder with respect to information or the product to which information refers.