



MATERIAL SAFETY DATA SHEET

Section 1. Chemical Product and Company Identification

Product Name: ChemTreat BL4350
Product Use: Boiler Water Treatment
Supplier's Name: ChemTreat Inc.

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

Date of MSDS: June 28, 2013

Section 2. Hazard(s) Identification

Signal Word: WARNING!

Hazard Statement(s): May be harmful in contact with skin.

May be harmful if inhaled. May be harmful if swallowed.

Precautionary Statement(s): No significant health risks are expected from exposures under normal

conditions of use.

Section 3. Composition/Hazardous Ingredients

Component	CAS Registry #	Wt.%
1-Hydroxyethylidene-1,1-diphosphonic acid, tetrapotassium	14860-53-8	1 – 5
salt		

Section 4. First Aid Measures

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

breathing. Call a poison center or doctor/physician if you feel

unwell.

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

lenses, if present and easy to do. Continue rinsing. If eye irritation

persists, get medical advice/attention.

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

doctor/physician if you feel unwell.

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

CENTER or doctor/physician if you feel unwell.

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: 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.

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		

Carcinogenicity Category

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

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, Light Straw, Clear

Specific Gravity: 1.134 @ 20°C **pH:** 9.2 @ 20°C, 100.0%

Freezing Point: 30°F **Flash Point:** N/D Odor: Mild **Melting Point:** N/D 212°F **Boiling Point: Solubility in Water:** Complete **Evaporation Rate:** N/DVapor Density: As Water **Molecular Weight:** N/D

Viscosity: <100 CPS @ 20°C

Flammable Limits: N/A





Autoignition Temperature:N/ADensity:9.46 lb/gaVapor Pressure:As Water% VOC:0

Section 10. Stability and Reactivity

Chemical Stability: Stable at normal temperatures and pressures.

Incompatibility with Various

Substances:

Strong oxidizers, Strong acids

Hazardous Decomposition

Products:

None known.

Possibility of Hazardous

Reactions:

None known.

Section 11. Toxicological Information

Chemical Name	Exposure	Type of Effect	Concentration	Species
1-Hydroxyethylidene-1,1-diphosphonic acid,	Oral	LD50	2400 mg/kg	Rat
tetrapotassium salt				
	Dermal	LD50	>7940 mg/kg	Rabbit

Comments: None.

Section 12. Ecological Information

Species	Duration	Type of Effect	Test Results
Ceriodaphnia dubia	48h	LC50	>1000 mg/l
Fathead Minnow	96h	LC50	>1000 mg/l
	48h	LC50	1768 mg/l
Daphnia pulex	48h	LC50	1708 mg/l

Comments: None.





Section 13. Disposal Considerations

Dispose of in accordance with local, state and federal regulations. Not a RCRA–regulated hazardous waste when disposed in the original product form.

Section 14. Transport Information

DOT

Proper Shipping Name: COMPOUND, INDUSTRIAL WATER TREATMENT, LIQUID

Technical Name: N/A

Hazard Class: Not D.O.T. Regulated

UN/NA#: N/A Packing Group: N/A

IMDG

Proper Shipping Name: COMPOUND, INDUSTRIAL WATER TREATMENT, LIQUID

Technical Name: N/A

Hazard Class: Not D.O.T. Regulated

UN/NA#: N/A Packing Group: N/A

TDG

Proper Shipping Name: COMPOUND, INDUSTRIAL WATER TREATMENT, LIQUID

Technical Name: N/A

Hazard Class: Not D.O.T. Regulated

UN/NA#: N/A Packing Group: N/A

ICAO

Proper Shipping Name: COMPOUND, INDUSTRIAL WATER TREATMENT, LIQUID

Technical Name: N/A

Hazard Class: Not D.O.T. Regulated

UN/NA#: N/A
Packing Group: 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: 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			

Comments: None.

State Regulations

California Proposition 65: None known.

Special Regulations

Component	States
1-Hydroxyethylidene-1,1-diphosphonic acid,	None
tetrapotassium salt	

International Regulations





Canada

WHMIS Classification: N/A

Controlled Product Regulations

N/A

(CPR):

Section 16. Other Information

HMIS Hazard Rating

Health: 1
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.

NSF: N/A

FDA/USDA/GRAS: All ingredients in this product are authorized in 21 CFR

173.310 for use as "Boiler Water Additives" where the steam

may contact food.

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

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