



MATERIAL SAFETY DATA SHEET

Section 1. Chemical Product and Company Identification

Product Name: Product Use:

Supplier's Name:

Emergency Telephone Number:

Address (Corporate Headquarters):

Telephone Number for Information:

Date of MSDS:

ChemTreat CL1416 Cooling Water Treatment

ChemTreat, Inc.

(800) 424-9300 (Toll Free)

(703) 527-3887 5640 COX ROAD

Glen Allen, VA 23060

(800) 648-4579 March 19, 2012

Section 2. Hazard(s) Identification

Signal Word:

DANGER!

Hazard Statement(s):

Causes severe skin burns and eye damage.

Causes serious eye damage. Harmful in contact with skin.

Harmful if inhaled. Harmful if swallowed. Harmful to aquatic life.

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.%
2-Phosphono-1,2,4-butane tricarboxylic acid	37971-36-1	1-5
Zinc chloride	7646-85-7	1-5
Sodium hydroxide	1310-73-2	7-13
Sodium molybdate	7631-95-0	0.5 – 1.5
Tolyltriazole, sodium salt	64665-57-2	1 - 5





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
2-Phosphono-1,2,4-butane tricarboxylic acid		N/E
Zinc chloride		N/E
Sodium hydroxide	ACGIH TLV	2 mg/m³ Ceiling
	OSHA PEL	2 mg/m³ TWA
Sodium molybdate		N/E
Tolyltriazole, sodium salt		N/E

Carcinogenicity Category

Component Source	Code Brief Description
2-Phosphono-1,2,4-butane tricarboxylic acid	N/E
Zinc chloride	N/E
Sodium 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

ChemTreat CL1416





CFR 1910.134.

Section 9. Physical and Chemical Properties

Physical State and Appearance:

Specific Gravity:

pH:

Freezing Point: Flash Point:

Odor:

Odor:

Melting Point: Boiling Point:

Solubility in Water: Evaporation Rate: Vapor Density:

Molecular Weight:

Viscosity:

Flammable Limits:

Autoignition Temperature:

Density:

Vapor Pressure:

% VOC

Liquid, Straw, Clear

1.302 @ 20°C

13.6 @ 20°C, 100.0%

<-13°F

N/D Mild

N/A 212°F

Complete As Water As Water

N/D N/A

N/A N/A

10.86 lb/ga As Water

0

Section 10. Stability and Reactivity

Chemical Stability:

Stable at normal temperatures and pressures.

Incompatibility with Various

Substances:

Acids, Strong oxidizers, Cationic polymers

Hazardous Decomposition

Products:

Oxides of carbon, Oxides of nitrogen

Possibility of Hazardous

Reactions:

None known.

Section 11. Toxicological Information

Chemical Name	Exposure	Type of Effect	Concentration	Species
2-Phosphono-1,2,4-butane tricarboxylic acid	Oral	LD50	>6500 mg/kg	Rat
Zinc chloride	Oral	LD50	350 mg/kg	Rat
Sodium hydroxide	Oral	LD50	300 mg/kg	Rat
	Dermal	LD50	1350 mg/kg	Rabbit
Sodium molybdate	Oral	LD50	2810 mg/kg	Rat
Tolyltriazole, sodíum 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
Ceriodaphnia dubia	48h	LC50	18.5 mg/i
	7d	NOEC	3.1 mg/l
	7d	LOEC	6.3 mg/l
	7d	IC25	3.9 mg/l
Fathead Minnow	96h	LC50	171 mg/l
	7d	NOEC	6.3 mg/l
	7d	LOEC	13 mg/l
	7d	IC25	>50 mg/I

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:

Technical Name:

N/A

Hazard Class:

Corrosive

UN/NA#:

UN1824

Packing Group:

PGII

Over 1151 GA

Proper Shipping Name:

RQ SODIUM HYDROXIDE SOLUTION

SODIUM HYDROXIDE SOLUTION

Technical Name:

N/A

Hazard Class: UN/NA#:

Corrosive UN1824

Packing Group:

PGII





TDG

Proper Shipping Name: Technical Name:

SODIUM HYDROXIDE SOLUTION

N/A

Hazard Class: UN/NA#:

Corrosive UN1824

Packing Group:

PGII

IMDG

Proper Shipping Name:

SODIUM HYDROXIDE SOLUTION

Technical Name:

N/A

Hazard Class:

Corrosive

UN/NA#:

UN1824

Packing Group:

PGII

ICAO

Proper Shipping Name:

SODIUM HYDROXIDE SOLUTION

Technical Name:

Hazard Class:

Corrosive UN1824

UN/NA#:

Packing Group:

PGII

Section 15. Regulatory Information

Inventory Status

United States (TSCA):

All ingredients listed.

Canada (DSL/NDSL): 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: Chronic Health Hazard:

Yes No





Other Sections

Component	Section 313 Toxic Chemical	Section 302 EHS	CERCLA RQ
2-Phosphono-1,2,4-butane tricarboxylic acid	N/A	N/A	N/A
Zinc chloride	Yes	N/A	1000
Sodium hydroxide	N/A	N/A	1000
Sodium molybdate	N/A	N/A	N/A
Tolyltriazole, sodium salt	N/A	N/A	N/A

Comments:

Zinc compounds are Section 313 Chemical Category Code

N982.

State Regulations

California Proposition 65:

None known.

Special Regulations

Component	States
2-Phosphono-1,2,4-butane tricarboxylic acid	None
Zinc chloride	MA, MI, MN, NY, PA, WA
Sodium 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: Flammability: Physical Hazard:

Physical Hazard: 1 PPE: X

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

0

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: 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, ÎA; 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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