

# SAFETY DATA SHEET

## Section 1. Chemical Product and Company Identification

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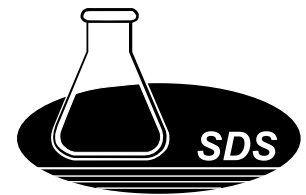
<b>Product Name:</b>	Quadrasperse® CL4816
<b>Product Use:</b>	Cooling Water Treatment
<b>Supplier's Name:</b>	ChemTreat, Inc.
<b>Emergency Telephone Number:</b>	(800)424-9300 (Toll Free)
<b>Address (Corporate Headquarters):</b>	5640 Cox Road Glen Allen, VA 23060
<b>Telephone Number for Information:</b>	(800)648-4579
<b>Date of SDS:</b>	April 9, 2018
<b>Revision Date:</b>	April 9, 2018
<b>Revision Number:</b>	DRAFT-180409011026AN

## Section 2. Hazard(s) Identification

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<b>Signal Word:</b>	<b>DANGER</b>
<b>GHS Classification(s):</b>	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
<b>Hazard Statement(s):</b>	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.
<b>Precautionary Statement(s):</b>	



**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.  
 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.

**Response:**

P405 Store locked up.

**Storage:**

P501 Dispose of contents and container in accordance with applicable local, regional, national, and/or international regulations.

**Disposal:**

None.

**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. %
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	10 - 30
Tolyltriazole, sodium salt	64665-57-2	0.5 - 1.5

**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**

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<b>Inhalation:</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.
<b>Eyes:</b>	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.
<b>Skin:</b>	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.
<b>Ingestion:</b>	DO NOT INDUCE VOMITING. Rinse mouth. Call a POISON CENTER or doctor/physician.
<b>Most Important Symptoms:</b>	N/D
<b>Indication of Immediate Medical Attention and Special Treatment Needed, If Necessary:</b>	N/A

## **Section 5. Fire Fighting Measures**

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<b>Flammability of the Product:</b>	Not flammable.
<b>Suitable Extinguishing Media:</b>	Use extinguishing media suitable to surrounding fire.
<b>Specific Hazards Arising from the Chemical:</b>	None known.
<b>Protective Equipment:</b>	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

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<b>Personal Precautions:</b>	Use appropriate Personal Protective Equipment (PPE).
<b>Environmental Precautions:</b>	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers.
<b>Methods for Cleaning up:</b>	Contain and recover liquid when possible. Flush spill area with water spray.
<b>Other Statements:</b>	If RQ (Reportable Quantity) is exceeded, report to National Spill Response Office at 1-800-424-8802. Reportable Quantity of the product is 1150 Gal.

## Section 7. Handling and Storage

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<b>Handling:</b>	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.
<b>Storage:</b>	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. Store above Freeze Point.

## Section 8. Exposure Controls/Personal Protection

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### Exposure Limits

Component	Source	Exposure Limits
2-Phosphono-1,2,4-butane tricarboxylic acid	N/E	N/E
Zinc chloride	N/E	N/E
Sodium hydroxide	ACGIH TLV	2 mg/m <sup>3</sup> Ceiling
	OSHA PEL	2 mg/m <sup>3</sup> TWA
Tolyltriazole, sodium salt	N/E	N/E

<b>Engineering Controls:</b>	Use only with adequate ventilation. The use of local ventilation is recommended to control emission near the source.
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## Personal Protection

<b>Eyes:</b>	Wear chemical splash goggles or safety glasses with full-face shield. Maintain eyewash fountain in work area.
<b>Skin:</b>	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.
<b>Respiratory:</b>	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

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<b>Physical State and Appearance:</b>	Liquid, Dark Straw, Clear
<b>Specific Gravity:</b>	1.303 @ 20°C
<b>pH:</b>	13.7 @ 20°C, 100.0%
<b>Freezing Point:</b>	<-13°F
<b>Flash Point:</b>	N/D
<b>Odor:</b>	Mild
<b>Melting Point:</b>	N/A
<b>Initial Boiling Point and Boiling Range:</b>	212°F
<b>Solubility in Water:</b>	Complete
<b>Evaporation Rate:</b>	As Water
<b>Vapor Density:</b>	As Water
<b>Molecular Weight:</b>	N/D
<b>Viscosity:</b>	N/A
<b>Flammability (solid, gas):</b>	N/D
<b>Flammable Limits:</b>	N/A
<b>Autoignition Temperature:</b>	N/A
<b>Density:</b>	10.87 LB/GA
<b>Vapor Pressure:</b>	As Water
<b>% VOC:</b>	N/D
<b>Odor Threshold</b>	N/D
<b>n-octanol Partition Coefficient</b>	N/D
<b>Decomposition Temperature</b>	N/D

## Section 10. Stability and Reactivity

<b>Chemical Stability:</b>	Stable at normal temperatures and pressures.
<b>Incompatibility with Various Substances:</b>	Acids, Strong oxidizers, Cationic polymers.
<b>Hazardous Decomposition Products:</b>	Oxides of carbon, Oxides of nitrogen.
<b>Possibility of Hazardous Reactions:</b>	None known.
<b>Reactivity:</b>	N/D
<b>Conditions To Avoid:</b>	N/D

## Section 11. Toxicological Information

### Acute Toxicity

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
Tolyltriazole, sodium salt	Oral	LD50	920 MG/KG	Rat
	Dermal	LD50	>2 G/KG	Rabbit

### Carcinogenicity Category

Component	Source	Code	Brief Description
2-Phosphono-1,2,4-butane tricarboxylic acid	N/E	N/E	N/E
Zinc chloride	N/E	N/E	N/E
Sodium hydroxide	N/E	N/E	N/E
Tolyltriazole, sodium salt	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 Irritation: N/D

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

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### Ecotoxicity

Species	Duration	Type of Effect	Test Results
Fathead Minnow	96h	LC50	35.4 mg/l
Ceriodaphnia dubia	48h	LC50	33 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 Regulation	UN/NA#:	Proper Shipping Name:	Technical Name:	Hazard Class:	Packing Group:
DOT	UN1824	SODIUM HYDROXIDE SOLUTION	N/A	8	PGII
Over 1150 GA	RQ UN1824	SODIUM HYDROXIDE SOLUTION	N/A	8	PGII
IMDG	UN1824	SODIUM HYDROXIDE SOLUTION	N/A	8	PGII
TDG	UN1824	SODIUM HYDROXIDE SOLUTION	N/A	8	PGII
ICAO	UN1824	SODIUM HYDROXIDE SOLUTION	N/A	8	PGII

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:	No
Reactive Hazard:	No
Release of Pressure:	No
Acute Health Hazard:	Yes
Chronic Health Hazard:	No



## Other Sections

Component	Section 313 Toxic Chemical	Section 302 EHS TPQ	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
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
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.

## 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.

**Halal:** This product has not been evaluated for Halal approval.

**FIFRA:** N/A



Other: None

Comments: None.

### Section 16. Other Information

#### HMIS Hazard Rating

Health:	3
Flammability:	0
Physical Hazard:	1
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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