

# MATERIAL SAFETY DATA SHEET

## Section 1. Chemical Product and Company Identification

**Product Name:** Quadrasperse® CL3855  
**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  
**Date of MSDS:** August 14, 2013

## Section 2. Hazard(s) Identification



**Signal Word:** WARNING!

**Hazard Statement(s):** Causes eye irritation.  
Harmful in contact with skin.  
Harmful if inhaled.  
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. %   |
|---|----------------|---------|
| 2-Phosphono-1,2,4-butane tricarboxylic acid | 37971-36-1     | 10 - 30 |

## 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.

**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***

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**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***

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**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***

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**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.

Do not store or handle in aluminum, zinc, copper, or their alloys.

## 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             |

### Carcinogenicity Category

| Component                                   | Source | Code | Brief Description |
|---|--------|------|-------------------|
| 2-Phosphono-1,2,4-butane tricarboxylic acid |        |      | 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

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|                                       |                           |
|---------------------------------------|---------------------------|
| <b>Physical State and Appearance:</b> | Liquid, Dark Straw, Clear |
| <b>Specific Gravity:</b>              | 1.188 @ 20°C              |
| <b>pH:</b>                            | 2.6 @ 20°C, 100.0%        |
| <b>Freezing Point:</b>                | 34°F                      |
| <b>Flash Point:</b>                   | N/D                       |
| <b>Odor:</b>                          | Odorless                  |
| <b>Melting Point:</b>                 | N/A                       |
| <b>Boiling Point:</b>                 | 212°F                     |
| <b>Solubility in Water:</b>           | Complete                  |
| <b>Evaporation Rate:</b>              | N/D                       |
| <b>Vapor Density:</b>                 | N/D                       |
| <b>Molecular Weight:</b>              | N/D                       |
| <b>Viscosity:</b>                     | N/A                       |
| <b>Flammable Limits:</b>              | N/A                       |
| <b>Autoignition Temperature:</b>      | N/A                       |

Density: 9.91 lb/ga  
Vapor Pressure: N/D  
% VOC: N/D

## Section 10. Stability and Reactivity

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**Chemical Stability:** Stable at normal temperatures and pressures.

**Incompatibility with Various Substances:** Strong oxidizers, Strong bases

**Hazardous Decomposition Products:** Oxides of nitrogen, Oxides of phosphorus, Oxides of carbon

**Possibility of Hazardous Reactions:** None known.

## Section 11. Toxicological Information

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| Chemical Name                               | Exposure | Type of Effect | Concentration | Species |
|---|----------|----------------|---------------|---------|
| 2-Phosphono-1,2,4-butane tricarboxylic acid | Oral     | LD50           | >6500 mg/kg   | Rat     |

**Comments:** None.

## Section 12. Ecological Information

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| Species            | Duration | Type of Effect | Test Results |
|--------------------|----------|----------------|--------------|
| Ceriodaphnia dubia | 48h      | LC50           | 812 mg/l     |
| Fathead Minnow     | 96h      | LC50           | 4506 mg/l    |

**Comments:** None.

## Section 13. Disposal Considerations

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

## ***Section 14. Transport Information***

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### **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

### **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***

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### **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**

|                               |     |
|-------------------------------|-----|
| <b>Fire Hazard:</b>           | No  |
| <b>Reactive Hazard:</b>       | No  |
| <b>Release of Pressure:</b>   | No  |
| <b>Acute Health Hazard:</b>   | Yes |
| <b>Chronic Health Hazard:</b> | No  |

### Other Sections

| Component                                   | Section 313<br>Toxic Chemical | Section 302 EHS<br>TPQ | CERCLA RQ |
|---|-------------------------------|------------------------|-----------|
| 2-Phosphono-1,2,4-butane tricarboxylic acid | N/A                           | N/A                    | N/A       |

**Comments:** None.

### State Regulations

**California Proposition 65:** None known.

### Special Regulations

| Component                                   | States |
|---|--------|
| 2-Phosphono-1,2,4-butane tricarboxylic acid | None   |

### International Regulations

#### Canada

**WHMIS Classification:** D2B (Toxic 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

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### 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.

**NSF:** N/A



**FDA/USDA/GRAS:** N/A  
**KOSHER:** This product has not been evaluated for Kosher approval.  
**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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