



# MATERIAL SAFETY DATA SHEET

### Section 1. Chemical Product and Company Identification

Product Name: Quadrasperse® CL3856
Product Use: Cooling Water Treatment

**Supplier's Name:** ChemTreat, Inc.

**Emergency Telephone Number:** (800) 424–9300 (Toll Free)

Address (Corporate Headquarters): (703) 527–3887 5640 COX ROAD

**Telephone Number for Information:**Glen Allen, VA 23060
(800) 648–4579

Date of MSDS:

August 14, 2013

# 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.

**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	7 – 13
Potassium hydroxide	1310-58-3	3 – 7
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.

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

# Section 8. Exposure Controls/Personal Protection

### **Exposure Limits**

Component	Source	Exposure Limits
2-Phosphono-1,2,4-butane tricarboxylic acid		N/E
Potassium hydroxide	ACGIH TLV	2 mg/m³ Ceiling
Tolyltriazole, sodium salt		N/E

### **Carcinogenicity Category**

Component	Source	Code	Brief Description
2-Phosphono-1,2,4-butane tricarboxylic acid			N/E
Potassium hydroxide			N/E
Tolyltriazole sodium salt			N/F

**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, Amber, Clear

Specific Gravity: 1.286 @ 20°C

**pH:** 13.5 @ 20°C, 100.0%

Freezing Point:

Flash Point:

Odor:

Mild

Melting Point:

N/A

Boiling Point:

212°F

Solubility in Water:

Complete

Evaporation Rate: Similar to water Vapor Density: Similar to water

Molecular Weight:N/DViscosity:N/AFlammable Limits:N/AAutoignition Temperature:N/A

**Density:** 10.73 lb/ga **Vapor Pressure:** Similar to water

% **VOC**:

### 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 phosphorus, Oxides of carbon

**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
Potassium hydroxide	Oral	LD50	365 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
Ceriodaphnia dubia	48h	LC50	683 mg/l
Fathead Minnow	96h	LC50	758 mg/l

**Comments:** None.

# Section 13. Disposal Considerations

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

EPÂ 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

**Over 1864 GA** 

**Proper Shipping Name:** RQ POTASSIUM HYDROXIDE SOLUTION

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

**TDG** 

**Proper Shipping Name:** POTASSIUM HYDROXIDE SOLUTION

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





#### **ICAO**

**Proper Shipping Name:** POTASSIUM HYDROXIDE SOLUTION

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

### **IMDG**

**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	<b>Toxic Chemical</b>	TPQ	CERCLA RQ
2-Phosphono-1,2,4-butane tricarboxylic acid	N/A	N/A	N/A
Potassium hydroxide	N/A	N/A	1000
Tolyltriazole, sodium salt	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
Potassium 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.

# 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.

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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