



MATERIAL SAFETY DATA SHEET

Section 1. Chemical Product and Company Identification

Product Name: ChemTreat CL5632
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: September 11, 2013

Section 2. Hazard(s) Identification

Signal Word: WARNING!

Hazard Statement(s): Causes eye irritation.

May be harmful in contact with skin.

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

Precautionary Statement(s): Wash hands thoroughly after handling.

Section 3. Composition/Hazardous Ingredients

| Component | CAS Registry # | Wt.% |
|---|----------------|-------|
| Citric acid | 77–92–9 | 1 - 5 |
| Benzotriazole, sodium salt | 15217-42-2 | 1 - 5 |
| 2-Butenedioic acid (Z)-, homopolymer and 2-butenedioic acid | 26099-09-2 | 3 – 7 |

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

ChemTreat CL5632





doctor/physician if you feel unwell.

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 |
|--|--------|-----------------|
| Citric acid | | N/E |
| Benzotriazole, sodium salt | | N/E |
| 2-Butenedioic acid (Z)-, homopolymer and | | N/E |
| 2-butenedioic acid | | |

Carcinogenicity Category

| Component | Source | Code | Brief Description |
|--|--------|------|-------------------|
| Citric acid | | | N/E |
| Benzotriazole, sodium salt | | | N/E |
| 2-Butenedioic acid (Z)-, homopolymer and | | | N/E |
| 2-butenedioic acid | | | |

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, Slightly Hazy

Specific Gravity: 1.110 @ 20°C

pH: 3.5 @ 20°C, 100.0%

Freezing Point: 41°F
Flash Point: N/D
Odor: Mild
Melting Point: N/A
Boiling Point: N/D
Solubility in Water: Complete





Evaporation Rate:N/DVapor Density:N/DMolecular Weight:N/D

Viscosity: <100 CPS @ 20°C

Flammable Limits:

Autoignition Temperature:

Density:

Vapor Pressure:

V/A

N/A

9.26 lb/ga

N/D

VOC:

N/D

Section 10. Stability and Reactivity

Chemical Stability: Stable at normal temperatures and pressures.

Incompatibility with Various

Substances:

Strong oxidizers, Strong bases

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 |
|---------------|----------|----------------|---------------|---------|
| N/D | | | | |

Comments: None.

Section 12. Ecological Information

| Species | Duration | Type of Effect | Test Results |
|--------------------|----------|----------------|--------------|
| Ceriodaphnia dubia | 48h | LC50 | 2967 mg/l |
| Fathead Minnow | 96h | LC50 | 3536 mg/l |
| | 7d | NOEC | 3500 mg/l |
| | 7d | LOEC | >3500 mg/l |
| | 7d | IC25 | >3500 mg/l |

Comments: None.





Section 13. Disposal Considerations

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

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

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

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 |
| Citric acid | N/A | N/A | N/A |
| Benzotriazole, sodium salt | N/A | N/A | N/A |
| 2-Butenedioic acid (Z)-, homopolymer and | N/A | N/A | N/A |
| 2-butenedioic acid | | | |

Comments: None.

State Regulations

California Proposition 65: None known.

Special Regulations

| Component | States |
|--|--------|
| Citric acid | None |
| Benzotriazole, sodium salt | None |
| 2–Butenedioic acid (Z)–, homopolymer and 2–butenedioic | None |
| acid | |

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

HMIS Hazard Rating

Health: 0 Flammability: **Physical Hazard:** 0 PPE:

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 is certified by the Orthodox Union as kosher pareve.

Only when prepared by the following ChemTreat facilities: Ashland,

VA; Nederland, TX.

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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