



MATERIAL SAFETY DATA SHEET

Section 1. Chemical Product and Company Identification

Product Name: ChemTreat CT9005

Product Use: Reverse Osmosis Treatment

Supplier's Name: ChemTreat, Inc.

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

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

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

Date of MSDS: January 22, 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. 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	5 – 10

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.

ChemTreat CT9005





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:

Use water spray to keep containers cool.

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
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

Physical State and Appearance: Liquid, Dark Straw, Clear

Specific Gravity: 1.222 @ 20°C

pH: 9.5 @ 20°C, 100.0%

Freezing Point: 27°F
Flash Point: N/D
Odor: Mild
Melting Point: N/A
Boiling Point: >212°F
Solubility in Water: Complete
Evaporation Rate: N/D

Vapor Density: Similar to water

Molecular Weight:N/DViscosity:<100</th>Flammable Limits:N/AAutoignition Temperature:N/ADensity:10.19 lb/ga





Vapor Pressure: Similar to water % **VOC:** 0

Section 10. Stability and Reactivity

Chemical Stability: Stable at normal temperatures and pressures.

Incompatibility with Various

Substances:

Strong oxidizers, Strong acids

Hazardous Decomposition

Products:

Oxides of carbon, Oxides of nitrogen, Oxides of phosphorus

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

Comments: None.

Section 12. Ecological Information

Species	Duration	Type of Effect	Test Results
Fathead Minnow	96h	LC50	1389 mg/l
Ceriodaphnia dubia	48h	LC50	1414 mg/l

Comments: None.

Section 13. Disposal Considerations

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

Not a RCRA-regulated hazardous waste when disposed in the original product form.





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

IMDG

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

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
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

HMIS Hazard Rating

Health: 1
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: Certified to NSF/ANSI Standard 60

Maximum use rate for potable water – 20 mg/L

This product ships as NSF from:

Eldridge, IA Nederland, TX Ashland, VA Vernon, CA

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; 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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