

# MATERIAL SAFETY DATA SHEET

## Section 1. Chemical Product and Company Identification

---

**Product Name:** ChemTreat CL427  
**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:** February 11, 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.  
Toxic to aquatic life.  
May intensify fire; oxidizer.

**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. %
Hydrogen peroxide	7722-84-1	10 - 30

## ***Section 4. First Aid Measures***

---

<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>Notes to Physician:</b>	N/A
<b>Additional First Aid Remarks:</b>	N/A

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

---

<b>Flammability of the Product:</b>	Product is an oxidizer. Oxidizers may increase the intensity of a fire.
<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***

---

<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>	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.  
Avoid contamination from any source, including metals, dust, and organic. Keep drum upright. Do not roll. Store inside only.

## Section 8. Exposure Controls/Personal Protection

---

### Exposure Limits

Component	Source	Exposure Limits
Hydrogen peroxide	ACGIH TLV	1.4 mg/m <sup>3</sup> TWA
	OSHA PEL	1.4 mg/m <sup>3</sup> TWA

### Carcinogenicity Category

Component	Source	Code	Brief Description
Hydrogen peroxide	ACGIH	TLV-A3	Confirmed animal carcinogen with unknown relevance to humans
	IARC	IARC-3	Unclassifiable as to carcinogenicity in humans
	MAK	MAK-4	Carcinogenic potential for which genotoxicity plays no role-no significant human risk

**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***

---

<b>Physical State and Appearance:</b>	Liquid, Colorless, Clear
<b>Specific Gravity:</b>	1.102 @ 20°C
<b>pH:</b>	2.9 @ 20°C, 100.0%
<b>Freezing Point:</b>	-2°F
<b>Flash Point:</b>	N/D
<b>Odor:</b>	Mild
<b>Melting Point:</b>	N/D
<b>Boiling Point:</b>	N/D
<b>Solubility in Water:</b>	Complete
<b>Evaporation Rate:</b>	>1
<b>Vapor Density:</b>	N/D
<b>Molecular Weight:</b>	N/D
<b>Viscosity:</b>	<100
<b>Flammable Limits:</b>	N/A
<b>Autoignition Temperature:</b>	N/A
<b>Density:</b>	9.19 lb/ga
<b>Vapor Pressure:</b>	N/D
<b>% VOC:</b>	N/D

## ***Section 10. Stability and Reactivity***

---

<b>Chemical Stability:</b>	Stable at normal temperatures and pressures.
<b>Incompatibility with Various Substances:</b>	Strong bases, Reducing agents, Excessive heat
<b>Hazardous Decomposition Products:</b>	Oxygen gas
<b>Possibility of Hazardous Reactions:</b>	None known.

## Section 11. Toxicological Information

---

Chemical Name	Exposure	Type of Effect	Concentration	Species
Hydrogen peroxide	Oral	LD50	500 mg/kg	Rat
ChemTreat CL427	Oral	LD50	1193 mg/kg	Rat
	Dermal	LD50	>2000 mg/kg	Rabbit

**Comments:** None.

## Section 12. Ecological Information

---

Species	Duration	Type of Effect	Test Results
Daphnia magna	24h	EC50	28.5 mg/l
Daphnia pulex	48h	LC50	9 mg/l
Freshwater snail	96h	LC50	66 mg/l
Rainbow Trout	96h	LC50	37 mg/l
Fathead Minnow	96h	LC50	60.7 mg/l
	48h	LC50	148 mg/l

**Comments:** None.

## Section 13. Disposal Considerations

---

Dispose of in accordance with local, state and federal regulations.  
EPA ignitibility characteristic hazardous waste D001 when disposed of in the original product form.

## Section 14. Transport Information

---

### DOT

**Proper Shipping Name:** HYDROGEN PEROXIDE, AQUEOUS SOLUTION (27%)  
**Technical Name:** N/A  
**Hazard Class:** Oxidizer  
Corrosive  
**UN/NA#:** UN2014  
**Packing Group:** PGII

**IMDG**

**Proper Shipping Name:** HYDROGEN PEROXIDE, AQUEOUS SOLUTION (27%)  
**Technical Name:** N/A  
**Hazard Class:** Oxidizer  
Corrosive  
**UN/NA#:** UN2014  
**Packing Group:** PGII

**TDG**

**Proper Shipping Name:** HYDROGEN PEROXIDE, AQUEOUS SOLUTION (27%)  
**Technical Name:** N/A  
**Hazard Class:** Oxidizer  
Corrosive  
**UN/NA#:** UN2014  
**Packing Group:** PGII

**ICAO**

**Proper Shipping Name:** HYDROGEN PEROXIDE, AQUEOUS SOLUTION (27%)  
**Technical Name:** N/A  
**Hazard Class:** Oxidizer  
Corrosive  
**UN/NA#:** UN2014  
**Packing Group:** PGII

## ***Section 15. Regulatory Information***

---

**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 Toxic Chemical	Section 302 EHS TPQ	CERCLA RQ
Hydrogen peroxide	N/A	N/A	N/A

**Comments:** None.

### State Regulations

**California Proposition 65:** None known.

### Special Regulations

Component	States
Hydrogen peroxide	MA, MN, NJ, NY, PA, WA

### International Regulations

#### Canada

**WHMIS Classification:** C (Oxidizing Material)  
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:** 2  
**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 is certified by the Orthodox Union as kosher pareve.

**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*

---

Although the information and recommendations set forth herein (hereinafter "information") are presented in good faith and believed to be correct as of the date hereof, ChemTreat, Inc. makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will ChemTreat, Inc. be responsible for damages of any nature whatsoever resulting from the use or reliance upon information. No representation or warranties, either expressed or implied, of merchantability, fitness for a particular purpose, or of any other nature are made hereunder with respect to information or the product to which information refers.