

# MATERIAL SAFETY DATA SHEET

## Section 1. Chemical Product and Company Identification

**Product Name:** ChemTreat CL49  
**Product Use:** Cooling Water Microbiocide  
**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:** September 13, 2012

## Section 2. Hazard(s) Identification



**Signal Word:** DANGER!

**Hazard Statement(s):** Causes severe skin burns and eye damage.  
Harmful in contact with skin.  
May be harmful if inhaled.  
Harmful if swallowed.  
Toxic to aquatic life.

**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. %
Sodium chlorosulfamate	17172-27-9	5 - 10
Sodium bromosulfamate	134509-56-1	7 - 13
Sodium hydroxide	1310-73-2	5 - 10

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

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<b>Inhalation:</b>	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.
<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>	Probable mucosal damage may contraindicate the use of gastric lavage.
<b>Additional First Aid Remarks:</b>	Have the product container, label or MSDS with you when calling a poison control center or doctor, or when going for treatment.

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

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<b>Flammability of the Product:</b>	Not flammable.
<b>Suitable Extinguishing Media:</b>	Use extinguishing media suitable to surrounding fire.
<b>Specific Hazards Arising from the Chemical:</b>	Thermal decomposition releases bromine and chlorine.
<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***

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<b>Personal Precautions:</b>	Use appropriate Personal Protective Equipment (PPE).
<b>Environmental Precautions:</b>	This pesticide is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, ponds, streams, estuaries, oceans or public waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit, and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact

your State Water Board or Regional Office of the EPA.

**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. Store in corrosive resistant container with a resistant inliner. Do not store or handle in aluminum, steel, copper, or their alloys.

## Section 8. Exposure Controls/Personal Protection

### Exposure Limits

Component	Source	Exposure Limits
Sodium chlorosulfamate		N/E
Sodium bromosulfamate		N/E
Sodium hydroxide	ACGIH TLV	2 mg/m <sup>3</sup> Ceiling
	OSHA PEL	2 mg/m <sup>3</sup> TWA

### Carcinogenicity Category

Component	Source	Code	Brief Description
Sodium chlorosulfamate			N/E
Sodium bromosulfamate			N/E
Sodium hydroxide			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. Rinse skin immediately with plenty of water 15 – 20 minutes.
- 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>	1.331 @ 20°C
<b>pH:</b>	13.6 @ 20°C, 100.0%
<b>Freezing Point:</b>	32°F
<b>Flash Point:</b>	N/D
<b>Odor:</b>	Mild
<b>Melting Point:</b>	N/A
<b>Boiling Point:</b>	214 – 216°F
<b>Solubility in Water:</b>	Miscible
<b>Evaporation Rate:</b>	N/D
<b>Vapor Density:</b>	N/A
<b>Molecular Weight:</b>	N/D
<b>Viscosity:</b>	N/A
<b>Flammable Limits:</b>	N/A
<b>Autoignition Temperature:</b>	N/A
<b>Density:</b>	11.10 lb/ga
<b>Vapor Pressure:</b>	19 mmHg, @ 25C
<b>% VOC</b>	0

## Section 10. Stability and Reactivity

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- Chemical Stability:** Stable at normal temperatures and pressures.
- Incompatibility with Various Substances:** Acids, Strong oxidizers, Reducing agents, Carbon steel, Aluminum/aluminum alloys, Aldehydes, Alcohols
- Hazardous Decomposition Products:** None known.
- Possibility of Hazardous Reactions:** None known.

## Section 11. Toxicological Information

Chemical Name	Exposure	Type of Effect	Concentration	Species
Sodium hydroxide	Oral	LD50	300 mg/kg	Rat
	Dermal	LD50	1350 mg/kg	Rabbit
ChemTreat CL49	Oral	LD50	2491 mg/kg	Rat
	Dermal	LD50	>2000 mg/kg	Rabbit

Comments: None.

## Section 12. Ecological Information

Species	Duration	Type of Effect	Test Results
Daphnia magna	48h	EC50	4.8 mg/l
Bluegill Sunfish	96h	LC50	3.8 mg/l
Algae	96h	IC50	2.6 mg/l
Fathead Minnow	48h	LC50	8.5 mg/l
Daphnia pulex	48h	LC50	6.2 mg/l
Mysid Shrimp	24h	LC50	196 mg/l
	48h	LC50	48 mg/l
Inland Silverside	24h	LC50	8.7 mg/l
	96h	LC50	8.9 mg/l

Comments: None.

## Section 13. Disposal Considerations

**PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL:** Non-refillable container. Do not reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by procedures approved by state and local authorities. EPA corrosivity characteristic hazardous waste D002 when disposed of in the original product form.

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

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### **DOT**

**Proper Shipping Name:** CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.  
**Technical Name:** (HALOGENATED COMPLEX, SODIUM HYDROXIDE)  
**Hazard Class:** Corrosive  
**UN/NA#:** UN3266  
**Packing Group:** PGIII

### **Over 901 GA**

**Proper Shipping Name:** RQ CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.  
**Technical Name:** (HALOGENATED COMPLEX, SODIUM HYDROXIDE)  
**Hazard Class:** Corrosive  
**UN/NA#:** UN3266  
**Packing Group:** PGIII

### **IMDG**

**Proper Shipping Name:** CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.  
**Technical Name:** (HALOGENATED COMPLEX, SODIUM HYDROXIDE)  
**Hazard Class:** Corrosive  
**UN/NA#:** UN3266  
**Packing Group:** PGIII

### **TDG**

**Proper Shipping Name:** CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.  
**Technical Name:** (HALOGENATED COMPLEX, SODIUM HYDROXIDE)  
**Hazard Class:** Corrosive  
**UN/NA#:** UN3266  
**Packing Group:** PGIII

### **ICAO**

**Proper Shipping Name:** CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.  
**Technical Name:** (HALOGENATED COMPLEX, SODIUM HYDROXIDE)  
**Hazard Class:** Corrosive  
**UN/NA#:** UN3266  
**Packing Group:** PGIII

## 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

**Fire Hazard:** No  
**Reactive Hazard:** No  
**Release of Pressure:** No  
**Acute Health Hazard:** Yes  
**Chronic Health Hazard:** No

#### Other Sections

Component	Section 313 Toxic Chemical	Section 302 EHS TPQ	CERCLA RQ
Sodium chlorosulfamate	N/A	N/A	N/A
Sodium bromosulfamate	N/A	N/A	N/A
Sodium hydroxide	N/A	N/A	1000

**Comments:** None.

### State Regulations

**California Proposition 65:** None known.

### Special Regulations

Component	States
Sodium chlorosulfamate	None
Sodium bromosulfamate	None
Sodium hydroxide	MA, MN, NY, PA, WA

## International Regulations

### Canada

**WHMIS Classification:** N/A

**Controlled Product Regulations (CPR):** N/A

## Section 16. Other Information

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### HMIS Hazard Rating

**Health:** 3  
**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 is certified as kosher pareve.

**FIFRA:** This product is an EPA registered biocide. 3377-55-15300

**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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