

MATERIAL SAFETY DATA SHEET

Section 1. Chemical Product and Company Identification

Product Name: ChemTreat CL-2150
Manufacturer's Name: ChemTreat, Inc.
Emergency Telephone Number: (800) 424-9300
Address (Corporate Headquarters): 4461 Cox Rd., Glen Allen, VA 23060
Telephone Number for Information: (800) 648-4579
Date of MSDS: May 7, 2007

Section 2. Composition/Hazardous Ingredients

Component	CAS Registry #	Wt. %
5-Chloro-2-methyl-4-isothiazolin-3-one	26172-55-4	1.11
2-methyl-4-isothiazolin-3-one	2682-20-4	0.39
Inert Ingredients		98.5

Section 3. Hazards Identification

Emergency Overview: Clear, green liquid; mild odor. Not flammable.

Potential Health Effects:

Eyes: Corrosive. Causes irreversible eye damage.

Skin: Corrosive. Causes skin burns.

Inhalation: Harmful if inhaled.

Ingestion: Harmful if swallowed.

Chronic Effects/Carcinogenicity: No information found on significant long-term effects.

Section 4. First Aid Measures

Have the product container or label with you when calling a poison control center or doctor or going for treatment.

Inhalation: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor.

Eyes: Hold eyes open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice.

Skin: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 - 20 minutes. Call a poison control center or doctor for treatment.

Ingestion: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do NOT induce vomiting unless told to do so by a poison control center or doctor.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression, and convulsions may be needed.

Section 5. Fire Fighting Measures

Flammable Properties: Not flammable.

Suitable Extinguishing Media: Use regular dry chemical, carbon dioxide, water, regular foam. For large fires, use regular foam or flood with fine water spray.

Fire & Explosion Hazards: Remove containers from fire area if it can be done without risk. Cools containers with water spray until well after fire is out. Do not get water directly on material.

Protective Equipment: Wear full protective clothing including a positive-pressure, NIOSH-approved, self-contained breathing apparatus.

Section 6. Accidental Release Measures

This pesticide is toxic to terrestrial and aquatic plants, fish and aquatic invertebrates. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other 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 Control Board or Regional Office of the EPA.

Section 7. Handling and Storage

Do not contaminate water, food, or feed by storage or disposal.

Do not store or transport in unlined metal containers. Do not get in eyes, or on skin and clothing.

Mixers, loader, and others exposed to product must wear the following Personal Protective Equipment (PPE): long-sleeved shirt and long pants, rubber gloves and apron, shoes plus socks, and protective eyewear. Follow manufacturer's instructions for cleaning/maintaining PPE. If there are no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Users should remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users should remove PPE immediately after handling product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly. Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate.

Section 8. Exposure Controls/Personal Protection

Use protective equipment in accordance with 29 CFR 1910 Subpart I. Good general ventilation should be sufficient to control airborne levels. Wear chemical splash goggles or safety glasses with full-face shield. Wear rubber 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. Maintain eyewash fountain and quick-drench facilities in work area.

Section 9. Physical and Chemical Properties

Appearance: Clear, green	Physical state: Liquid
Boiling Point: N/D	Solubility in Water: Complete
Evaporation Rate: N/D	Specific Gravity: ~1.029
Freezing Point: ~32°F	Vapor Density: N/D
Melting Point: N/A	Vapor Pressure: N/D
Molecular Weight: Mixture	Viscosity: N/D
Odor: Mild	% VOCs: 0
pH: ~3.6	Flash Point: Not flammable

Section 10. Stability and Reactivity

Chemical Stability: Stable at normal temperatures and pressures.

Incompatibility: Oxidizing materials, metals, and combustible materials. Corrosive to steel.

Hazardous Decomposition Products: Oxides of nitrogen; sulfur; carbon; halogenated compounds

Hazardous Polymerization: Will not occur.

Section 11. Toxicological Information

Toxicity data: 13.7 mg/L/4 hour inhalation - rat LC50; >5,000 mg/kg skin - rabbit LD50; 3,810 mg/kg oral - rat LD50.

Local effects: Corrosive: Ingestion

Acute toxicity level: Moderately toxic: inhalation; ingestion

5-chloro-2-methyl-4-isothiazolin-3-one toxicity data: 457 mg/kg oral rat LD50

Corrosive: inhalation; skin; ingestion

Acute toxicity level: toxic - ingestion

Target organs - immune system (sensitizer)

Mutagenic data: mutation in micro-organisms - salmonella typhimurium 200 ng/plate (+S9)

Additional data: May cross-react with similar compounds

Section 12. Ecological Information

Rainbow trout 96h LC50 = 12.6 mg/L; 14 day LC50 = 4.7 mg/L; 36-day early life stage study = LOEC 4.0 mg/L, NOEC 1.3 mg/L

Daphnia Magna 48h LC50 = 10.7 mg/L; 21 day LC50 = 12.0 mg/L; 21-day life cycle = LOEC 12.0 mg/L, NOEC 6.7 mg/L

Bluegill sunfish 96h LC50 = 18.6 mg/L

Ceriodaphnia dubia 48h EC50 = 10.7 mg/L

Activated sludge respiration inhibition EC50 (as active ingredient) = 4.5 mg/L

Sheepshead minnow 96h static LC50 = 70.7 mg/L

Mysid shrimp 48h static LC50 = 46.1 mg/L

Section 13. Disposal Considerations

Do not contaminate water, food, or feed by storage or disposal.

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 the label instructions, contact your State Pesticide or Environmental Control agent or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container Disposal:

Metal & Plastic Containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incinerate or burn if allowed by State and local authorities. If burned, stay out of smoke.

Section 14. Transport Information (not meant to be all inclusive)

D.O.T. Shipping Name: Corrosive liquids, n.o.s.

Technical Name: (5-Chloro-2-methyl-4-isothiazolin-3-one and 2-Methyl-4-isothiazolin-3-one)

Hazard Class: 8 (Corrosive); UN1760; PG II

Section 15. Regulatory Information (Not meant to be all inclusive – selected regulation represented)

TSCA Status: All ingredients listed

CERCLA Reportable Quantity: Cupric nitrate – 100 pounds

SARA Title III:

Section 302 Extremely Hazardous Substances: None

Section 313 Toxic Chemicals: Cupric nitrate – copper compounds

CALIFORNIA PROPOSITION 65: None

KOSHER: This product is certified by the Orthodox Union as kosher pareve.

USDA: (Federally inspected meat and poultry plants) – product is approved for Categories G5 and G7.

FIFRA – This product is an EPA registered biocide – Registration No. 15300-24

FDA: All ingredients in this product are authorized in 21 CFR 176.170 and 21 CFR 176.180.

Section 16. Other Information

HMIS Hazard Rating:

Health: 3 Flammability: 0 Physical Hazard: 0 PPE: X (see note)

NOTE: PPE rating depends on circumstances of use. See Section 8 for recommended PPE.

SARA Hazard Categories – Section 311/312

Acute – Yes Chronic – No Fire – No Reactive – No Sudden Release – No

Prepared by Regulatory Affairs

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