

Vanson HaloSource, Inc
Material Safety Data Sheet

Material Name: **Algae Prevention and Remover**
Telephone No: **425-881-6464**

VHI-MSDS-02.16 REV 04
Date Prepared: **Feb. 2005**

24-HOUR EMERGENCY PHONE: CHEMTREC 800-424-9300

SECTION I – CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Manufacturer's Name: Vanson HaloSource, Inc.
Corporate Address: 14716 NE 87th Street, Redmond, WA 98052
Emergency Phone: 800-424-9300 Chemtrec
Manufacturer's Phone: (425) 881-6464
Material Name: SEA-KLEAR Algae Prevention and Remover
Chemical Name: Copper (II) Triethanolamine

SECTION II – COMPOSITION, INFORMATION ON INGREDIENTS

CAS NO.	INGREDIENT	EXPOSURE LIMITS
31089-39	Copper (II) Triethanolamine $Cu_{12}C_{30}H_{24}N_6O$	OSHA PEL: N/A OSHA STEL: N/A ACGIH TLV: N/A

SECTION III – HAZARDS IDENTIFICATION

PRINCIPAL HEALTH HAZARDS, INCLUDING SIGNIFICANT ROUTES, EFFECTS, AND SYMPTOMS OF OVEREXPOSURE AND MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE MAY BE:

EYE: Irritant. May cause watering of the eye and blurred vision. Contamination of the eyes can result in permanent injury.

SKIN: Contact with skin may result in irritation. Repeated or prolonged skin contact may lead to skin burns and allergic contact dermatitis.

INHALATION: Not normally an inhalation hazard due to low vapor pressure.

INGESTION: Swallowing can result in burning and metallic taste in mouth, irritation of the mouth, esophagus and stomach, vomiting, diarrhea, abdominal pain, jaundice and kidney failure, dizziness, faintness, loss of consciousness and death.

CARCINOGENICITY: Not listed by National Toxicology Program (NTP) OSHA, or International Agency for Research on Cancer (IARC)

SECTION IV - FIRST AID

EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Hold eyelids open Contact a physician.

SKIN: Immediately wash skin contaminated skin with plenty of water. Remove contaminated clothing and wash before re-use. If irritation occurs seek medical advice.

INHALATION: Remove victim from exposure to fresh air. Seek medical advice if effects persist.

INGESTION: Immediately rinse mouth. If swallowed do NOT induce vomiting. Give water or milk. Seek immediate medical assistance.

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ADVICE TO DOCTOR: treat symptomatically.. Corrosive, May cause stricture. If lavage is performed, suggest endotracheal and/or esophagoscopic control.

SECTION V - FIRE FIGHTING MEASURES

Not combustible, however, following evaporation of aqueous component residual could burn if ignited. Firefighters should wear self-contained breathing apparatus if there exists a risk of exposure to products of decomposition.

HAZARDOUS COMBUSTION PRODUCTS: Decomposes on heating emitting toxic fumes including those of NOx.

EXTINGUISHING MEDIA: Water fog or fine water spray, dry chemicals, carbon dioxide, sand or foam.

VAPOR PRESSURE: 17 mm

SECTION VI – ACCIDENTAL RELEASE MEASURES

SPILL: Clear area of all unprotected personnel. Avoid inhalation of vapor or mist. Increase ventilation. Slippery – use caution. Wear protective equipment to prevent skin and eye contamination.

DISPOSAL INFORMATION: Contaminated material or waste should be placed in suitable receptacles and removed to chemical waste storage area for disposal in accordance with relevant federal, state, and local regulations.

DISPOSAL METHODS: In accordance with local, State and federal regulations. Flush residue with water.

SECTION VII - HANDLING & STORAGE

HANDLING & STORAGE PRECAUTIONS: Store in cool dry area in well-closed containers. Exercise normal handling precautions for liquids. Protect from freezing. Keep away from metals. Do not pack in unlined steel drums.

SECTION VIII - EXPOSURE CONTROLS/ PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT (PPE): Good hygiene practices should be strictly followed. Before eating, drinking or smoking, wash face and hands thoroughly. For operations where eye or face contact may occur, wear chemical goggles or face shield. Showers and eyewash facilities should be accessible.

EYE PROTECTION: eye protection recommended.

SKIN PROTECTION: wear elbow length PVC gloves.

PROTECTIVE CLOTHING: Wear coveralls.

PROTECTIVE FOOTWEAR: NA

RESPIRATORY PROTECTION:

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VENTILATION REQUIREMENTS: Normal ventilation should be sufficient under normal conditions. Keep containers closed when not in use.

SECTION IX - PHYSICAL & CHEMICAL PROPERTIES

PHYSICAL FORM: Blue liquid, slight odor

BOILING POINT: 100 C / 212 F.

FREEZING POINT: -5.6 C (21.9 F)

MELTING POINT: NA

PH: 8.5

SOLUBILITY IN WATER: Miscible in water

SPECIFIC GRAVITY: 1.08-1.21

SECTION X - STABILITY & REACTIVITY DATA

CHEMICAL STABILITY: Stable.

HAZARDOUS POLYMERIZATION: Will not occur.

INCOMPATIBLES: Strong acids

DECOMPOSITION PRODUCTS: Oxides of carbon and nitrogen

SECTION XI - TOXICOLOGICAL INFORMATION

ORAL Rat LD₅₀ (MG/KG): 4,500 mg/kg

INHALATION: No effect at 2000 mg/Kg

EYE IRRITATION: Irritant

SKIN: Greater than 2000 mg/Kg

SECTION XII - ECOLOGICAL INFORMATION

Fish 96-hour LC₅₀ = NA

Daphnia 48-hour LC₅₀ = NA

Green algae 96-hour EC₅₀ = NA

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Fish Chronic Value (ChV) = NA
Daphnia Chi = NA
Algae Chi = NA

SECTION XIII - DISPOSAL CONSIDERATION

WASTE DISPOSAL METHOD: Dispose of in accordance with all applicable federal, local and State environmental regulations.

SECTION XIV - TRANSPORTATION INFORMATION

DOT Proper Shipping Name: Agricultural Herbicide
DOT Hazard Class: Not regulated as a hazardous material
Packing Group: na
UN Number: na
Product RQ (lbs.): na
DOT Label: na
DOT Placard: Not required
Freight Class (package): na

SECTION XV - REGULATORY INFORMATION

MATERIAL IS REPORTED IN EPA TSCA INVENTORY LIST?: No

MATERIAL IS LISTED AS A CARCINOGEN/POTENTIAL CARCINOGEN IN FOLLOWING?: No

NTP ANNUAL REPORT: No **IARC GROUP I OR II:** No **OSHA 29CFR PART 1910 SUBPART Z:** No

DOES PRODUCT CONTAIN A TOXIC CHEMICAL SUBJECT TO SARA TITLE III SECTION 313 REPORTING: No

SARA TITLE III SECTION 311/312 CLASSIFICATIONS: None

SECTION XVI – OTHER INFORMATION

The above information is based upon information Vanson-HaloSource, Inc. believes to be reliable and is supplied for informational purposes only. Vanson-HaloSource, Inc. disclaims any liability for damage which results from the use of the above information and nothing contained therein shall constitute a guarantee, warranty (including fitness for a particular purpose) or representation with respect to the accuracy or completeness of the data, the product described or their use for any specific purpose even if that purpose is known to Vanson-HaloSource, Inc. The final determination of the suitability of the information, the manner of use of the information or product and potential infringement is the sole responsibility of the user.