

Material Safety Data Sheet

SeaKlear: Algae Prevention & Remover

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Manufacturer's Name: HaloSource, Inc.
Corporate Address: 1631 220th St. SE, Suite 100, Bothell, WA 98021
Manufacturer's Telephone: (425) 881-6464 (Monday-Friday, 8AM-5PM PDT)
Emergency Telephone: 800-424-9300 Chemtrec (24 Hours)
Material/Trade/Product Name: SeaKlear: Algae Prevention & Remover
Synonyms: None
Chemical Name: Proprietary
Chemical Formula: Proprietary
CAS No.: Not Applicable
EPA Registration #: 72083-1
Product Use: Controls algae growth in swimming pool water.

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

CAS NO.	COMPONENT	%	OSHA HAZARDOUS ?
7758-99-8	Copper sulfate pentahydrate (chelated in solution)	12	YES
Trade Secret	Trade Secret	28	YES
	All other components are non-hazardous.	60	NO

NOTE: See Section 8 for permissible exposure limits.

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Blue liquid with a slight odor.

WARNING! Irritant to eyes and skin. Harmful if ingested (*see below*).

This material is harmful to fish.

POTENTIAL HEALTH EFFECTS

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.

CHRONIC EXPOSURE/CARCINOGENICITY: Not known.

SIGNS AND SYMPTOMS OF OVEREXPOSURE: May cause watering of the eye and blurred vision. Contact with skin may result in irritation. Repeated or prolonged skin contact may lead to skin burns and allergic contact dermatitis. 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.

AGGRAVATION OF PRE-EXISTING CONDITIONS: Repeated or prolonged skin contact may lead to allergic contact dermatitis.

POTENTIAL ENVIRONMENTAL EFFECTS: This material is considered a marine pollutant by the USDOT.

SECTION 4: FIRST AID MEASURES

FIRST AID PROCEDURES

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

SKIN CONTACT: 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.

NOTE TO PHYSICIANS: Treat symptomatically. Corrosive may cause stricture. If lavage is performed, suggest endotracheal and/or esophagosopic control.

SECTION 5: FIRE FIGHTING MEASURES

FLASH POINT: Not available

UPPER FLAMMABLE LIMIT: Not available

FLAMMABILITY CLASS (OSHA): Not applicable

AUTOIGNITION TEMPERATURE: Not available

LOWER FLAMMABLE LIMIT: Not available

FLAME PROPAGATION/BURNING RATE: Not available

UNIQUE FIRE PROPERTIES: Not combustible, however, following evaporation of aqueous component residual could burn if ignited.

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.

PROTECTION OF FIREFIGHTERS: Firefighters should wear self-contained breathing apparatus if there exists a risk of exposure to products of decomposition.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PROTECTIVE EQUIPMENT: See Section 8 (Personal Protective Equipment).

ENVIRONMENTAL PRECAUTIONS: Do not allow product to get into waterways.

METHODS FOR CLEANING UP: 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.

SECTION 7: HANDLING AND STORAGE

SAFE HANDLING RECOMMENDATIONS

VENTILATION: Normal ventilation should be sufficient under normal conditions.

FIRE PREVENTION: No special requirements.

SPECIAL HANDLING REQUIREMENTS: Exercise normal handling precautions for liquids.

SAFE STORAGE RECOMMENDATIONS

CONTAINMENT: Store in well-closed containers. Do not pack in unlined steel drums.

STORAGE ROOM RECOMMENDATIONS: Store in cool dry area.

INCOMPATIBLE MATERIALS: Strong acids.

STORAGE CONDITIONS: Protect from freezing. Keep away from metals.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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

PERSONAL PROTECTIVE EQUIPMENT (PPE)

EYE/FACE PROTECTION: For operations where eye contact can occur, wear chemical, splash proof goggles or face shield.

SKIN PROTECTION: For operations where skin contact can occur, wear coveralls.

HAND PROTECTION: For operations where hand contact can occur, wear PVC gloves.

RESPIRATORY PROTECTION: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. Respirator use for this product is unnecessary.

GOOD HYGIENE/WORK PRACTICES: Always follow good hygiene/work practices by avoiding vapors or mists and contact with eyes and skin. Thoroughly wash hands after handling and before eating or drinking. Always wear the appropriate PPE when repairing or performing maintenance on contaminated equipment.

EXPOSURE GUIDELINES

PERMISSIBLE EXPOSURE LIMITS						
INGREDIENT CAS NO.	OSHA		WISHA		ACGIH (TLV)	
	TWA	STEL	TWA	STEL	TWA	STEL
102-71-6	Not applicable	Not applicable	Not applicable	Not applicable	5 mg/m ³	Not applicable

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**COLOR:** Blue**PHYSICAL FORM:** Liquid**pH:** 8.5**VAPOR DENSITY:** Not available**MELTING POINT:** Not available**SOLUBILITY IN WATER:** Miscible in water**SHAPE:** Liquid**ODOR:** Slight odor**VAPOR PRESSURE:** Not available**BOILING POINT:** Not available**FREEZING POINT:** -5.6 C (21.9 F)**SPECIFIC GRAVITY OR DENSITY:** 1.08-1.21

NOTE: These physical data are typical values based on material tested but may vary from sample to sample. Values should not be construed as a guaranteed analysis of any specific lot or as specifications.

SECTION 10: STABILITY AND REACTIVITY**CHEMICAL STABILITY:** Stable.**CONDITIONS TO AVOID:** Protect from freezing. Keep away from metals.**MATERIALS TO AVOID (INCOMPATIBILITY):** Strong acids.**HAZARDOUS DECOMPOSITION PRODUCTS:** Oxides of carbon and nitrogen.**HAZARDOUS POLYMERIZATION:** Will not occur.**SECTION 11: TOXICOLOGICAL INFORMATION****ORAL LD₅₀ (rat):** 4,500 mg/kg**DERMAL LD₅₀ (rabbit):** Not available.**INHALATION:** No effect at 2000 mg/Kg**SKIN IRRITATION:** Greater than 2000 mg/Kg**EYE IRRITATION:** Irritant**SKIN SENSITIZATION:** Not available.**ADDITIONAL INFORMATION:** Not available.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY: Not available.

MOBILITY: Not available.

PERSISTENCE AND DEGRADABILITY: Not available.

BIOACCUMULATIVE POTENTIAL: Not available.

ADDITIONAL INFORMATION: Not available.

SECTION 13: DISPOSAL CONSIDERATIONS

If this product as supplied becomes a waste, it does meet the criteria of a hazardous waste as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal regulations. Consult state and local regulations regarding the proper disposal of this material.

NOTE: Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate.

SECTION 14: TRANSPORT INFORMATION**U.S. DEPARTMENT OF TRANSPORTATION (DOT):**

**When transported by motor vehicles, rail cars or aircraft in 119 gallon or less containers:*

Proper Shipping Name:	Not Regulated
Hazard Class:	Not Regulated
Identification Number (UN Number):	Not Regulated
Packing Group (PG):	Not Regulated

** When transported by motor vehicles, rail cars or aircraft in 120 gallon or more containers:*

Proper Shipping Name:	Environmentally hazardous substances, liquid, n.o.s (Copper sulphate pentahydrate)
Hazard Class:	9
Identification Number (UN Number):	3082
Packing Group (PG):	III
Additional Information:	Marine pollutant

**When transported aboard vessel in any sized container:*

Proper Shipping Name:	Environmentally hazardous substances, liquid, n.o.s (Copper sulphate pentahydrate)
Hazard Class:	9
Identification Number (UN Number):	3082
Packing Group (PG):	III
Additional Information:	Marine pollutant

SECTION 15: REGULATORY INFORMATION

TSCA STATUS: Listed

CERCLA REPORTABLE QUANTITY (RQ):

CHEMICAL NAME	RQ
Not applicable	Not applicable

SARA TITLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (EHS):

CHEMICAL NAME	TPQ	RQ
Not applicable	Not applicable	Not applicable

SARA TITLE III SECTION 311/312 HAZARD CATEGORIES: Does this product/material meet the definition of the following hazard classes according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of SARA Title III?

ACUTE HEALTH HAZARD	CHRONIC HEALTH HAZARD	FIRE HAZARD	REACTIVE HAZARD	SUDDEN RELEASE OF PRESSURE
YES	NO	NO	NO	NO

SARA TITLE III SECTION 313 TOXIC CHEMICALS INFORMATION:

CHEMICAL NAME	CAS NO.	CONCENTRATION (%)
Not applicable	Not applicable	Not applicable

CALIFORNIA PROPOSITION 65: The following chemical(s) is/are known to the state of California to cause cancer or reproductive toxicity:

CHEMICAL NAME	CAS NO.	CONCENTRATION (%)
Not applicable	Not applicable	Not applicable

SECTION 16: OTHER INFORMATION

REVISION INFORMATION:

MSDS sections(s) changed since last revision of document: Section 1. Corporate address was updated.

DISCLAIMER:

The above information is based upon information HaloSource, Inc. believes to be reliable and is supplied for informational purposes only. 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 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.

MSDS PREPARED BY: Jeremy Heath, EH&S Specialist