

## Material Safety Data Sheet

### *SeaKlear: 90-Day Algae Prevention & Remover*

#### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**Manufacturer's Name:** HaloSource, Inc.  
**Corporate Address:** 1725 220<sup>th</sup> St. SE, Suite 103, Bothell, WA 98021  
**Manufacturer's Telephone:** (425) 881-6464 (Monday-Friday, 8AM-5PM PDT)  
**Emergency Telephone (24 Hours):** 800-424-9300 CHEMTREC (Domestic, North America)  
703-527-3887 CHEMTREC (International, collect calls accepted)

**Material/Trade/Product Name:** **SeaKlear: 90-Day 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
<i>Trade Secret</i>	<i>Trade Secret</i>	28	YES
	<i>All other components are non-hazardous.</i>	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
Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	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 LD<sub>50</sub> (rat):** 4,500 mg/kg

**DERMAL LD<sub>50</sub> (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 not 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:*

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

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

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

*\*When transported aboard vessel in containers above 1 Liter:*

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

**Algaecide, Marine Pollutant**

**IMDG Code Book, Part 3, Section (7a) 3.4, 1 Liter or less are acceptable to ship as "Limited Quantity"**

**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: Added IMDG Shipping Information to Section 14, corrected vessel statement to reflect 1 Liter or more, updated address

**DISCLAIMER:**

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