

Material Safety Data Sheet

SeaKlear: Problem Klear

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 (24 Hours): 800-424-9300 CHEMTREC (Domestic, North America)
703-527-3887 CHEMTREC (International, collect calls accepted)

Material/Trade/Product Name: **SeaKlear: Problem Klear**
Synonyms: None
Chemical Name: Not applicable, this is a mixture
Chemical Formula: Not available
CAS#: Not applicable, this is a mixture
EPA Registration Number: 46043-29-72083
Product Use: Keeps swimming pool water clear and prevents and controls algae growth.

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

CAS NO.	COMPONENT	%	OSHA HAZARDOUS?
7647-15-6	Sodium Bromide	40	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 no odor.

Caution: May cause irritation to skin, eyes and respiratory system. Harmful by ingestion. Avoid breathing vapors.
Contains a potential teratogen. May cause chronic toxic effects.

POTENTIAL HEALTH EFFECTS

EYE: Contact may cause eye irritation.

SKIN: May cause skin irritation.

INHALATION: May cause irritation to the respiratory tract. Additional effects may include coughing and shortness of breath. Contact with acids will release sulfur dioxide and/or hydrogen sulfide gas which may be harmful or deadly if inhaled.

INGESTION: May cause vomiting, digestive disorders, high blood pressure, kidney damage, paralysis and coma.

CHRONIC EXPOSURE/CARCINOGENICITY: None of the components present in this material at concentrations of equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen. See Section 11 for additional chronic effects.

AGGRAVATION OF PRE-EXISTING CONDITIONS: None known.

POTENTIAL ENVIRONMENTAL EFFECTS: Sodium bromide is an organic salt, which fully dissociates in aquatic environment to bromide and sodium ions. It also undergoes degradation in soil to bromide ion (no further degradation or biodegradation will occur.)

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 for at least 15 minutes. Remove contaminated clothing and wash before re-use. Contact a physician.

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

INGESTION: If swallowed do NOT induce vomiting. Give water if able to swallow. Never give anything by mouth to an unconscious person. Call a physician.

NOTE TO PHYSICIANS: None.

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: None known.

HAZARDOUS COMBUSTION PRODUCTS: May generate bromine gas in the presence of strong oxidizing agents.

EXTINGUISHING MEDIA: Use extinguishing media appropriate for surrounding fire.

PROTECTION OF FIREFIGHTERS: Avoid breathing fumes. Move containers from fire area if able to do so without risk. Prevent runoff into water sources.

SECTION 6: ACCIDENTAL RELEASE MEASURES

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

ENVIRONMENTAL PRECAUTIONS: Use appropriate containers to avoid environmental contamination.

METHODS FOR CLEANING UP: Clean up spill immediately. Contain and/or absorb spill with inert material (e.g., sand or vermiculite). Flush spill area with water.

SECTION 7: HANDLING AND STORAGE

SAFE HANDLING RECOMMENDATIONS

VENTILATION: Use in a cool, dry, well-ventilated area.

FIRE PREVENTION: No special precautions.

SPECIAL HANDLING REQUIREMENTS: Do not inhale. Do not get in eyes, on skin or clothing. Wash thoroughly after handling. Wash clothing after use.

SAFE STORAGE RECOMMENDATIONS

CONTAINMENT: No special containment.

STORAGE ROOM RECOMMENDATIONS: Store in a cool, dry, well-ventilated area.

INCOMPATIBLE MATERIALS: Keep away from strong acids and strong oxidizing agents.
Corrosive to aluminum.

STORAGE CONDITIONS: Store in a cool, dry, well-ventilated area.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Local exhaust.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

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

SKIN PROTECTION: For operations where skin contact can occur, wear impervious clothing such as apron, boots, or whole bodysuit.

HAND PROTECTION: Use chemical resistant 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. A NIOSH/MSHA approved air-purifying respirator with a dust/mist cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known or any other circumstances where air-purifying respirators may not provide adequate protection.

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
None Established	None Established	None Established	None Established	None Established	None Established	None Established

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**COLOR:** Blue**PHYSICAL FORM:** Liquid**pH:** 6.8**VAPOR DENSITY:** Not determined**MELTING POINT:** Not known**SOLUBILITY IN WATER:** Miscible**SHAPE:** Liquid**ODOR:** Odorless**VAPOR PRESSURE:** 17.5 mm of Hg @ 20 deg C**BOILING POINT:** 112°C (234°F)**FREEZING POINT:** Not known**SPECIFIC GRAVITY OR DENSITY:** 1.410

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:** Extremely high heat.**MATERIALS TO AVOID (INCOMPATIBILITY):** Acids and oxidizers. Corrosive to aluminums.**HAZARDOUS DECOMPOSITION PRODUCTS:** May generate bromine gas in the presence of strong oxidizing agents.**HAZARDOUS POLYMERIZATION:** Will not occur.**SECTION 11: TOXICOLOGICAL INFORMATION****ORAL LD₅₀ (mice):** 7,000 mg/kg

*NOTES: Oral TDLO: 3150 mg/kg (6 weeks, continuous, rat)
Subcutaneous LD50: 5020 mg/kg (mouse)*

DERMAL LD₅₀ (rabbit): Not available.**INHALATION 4-hr LC50 (rat):** Not available.**SKIN IRRITATION:** Not available.**EYE IRRITATION:** Not available.**SKIN SENSITIZATION:** Not available.

ADDITIONAL INFORMATION:

- **TERATOGENIC EFFECTS:** Sodium bromide has been shown to cause embryo-fetal toxicity and malformations in rats at dose levels which also produce maternal toxicity. The No-Observed Effect Level (NOEL) is 100 mg/kg per day, and the acceptable daily intake (ADI) for sodium bromide from food and drinking water in humans is 1 mg/kg per day. Comparable high doses of sodium chloride (table salt) similarly cause malformation, embryo-fetal toxicity, and maternal toxicity in mice.
- **MUTAGENICITY:** Does not induce DNA repair in cultured human epitheliod cells. Not clastogenic in human lymphocytes metaphase analysis. Not mutagenic by the Ames test.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY: Not available.

AQUATIC TOXICITY: Not available.

MOBILITY: Not available.

PERSISTENCE AND DEGRADABILITY: Not available.

BIOACCUMULATIVE POTENTIAL: Not available.

ADDITIONAL INFORMATION: Sodium bromide is an organic salt, which fully dissociates in aquatic environment to bromide and sodium ions. It also undergoes degradation in soil to bromide ion (no further degradation or biodegradation will occur.)

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):**

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

SECTION 15: REGULATORY INFORMATION

TSCA STATUS: All components are 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	YES	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: Not applicable, this is a new MSDS.

DISCLAIMER:

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