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)
Material/Trade/Product Name: SeaKlear: Phosphate Remover
Synonyms: None
Chemical Name: Proprietary
Chemical Formula: Proprietary
CAS No.: Not applicable.
EPA Registration #: Not applicable
Product Use: Removes phosphates from swimming pool water

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>CAS NO.</th>
<th>COMPONENT</th>
<th>%</th>
<th>OSHA HAZARDOUS?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proprietary</td>
<td>Lanthanum salt derivative</td>
<td>35 – 65</td>
<td>YES</td>
</tr>
<tr>
<td></td>
<td>All other components are non-hazardous.</td>
<td>35 – 65</td>
<td>NO</td>
</tr>
</tbody>
</table>

NOTE: See Section 8 for permissible exposure limits.

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Clear to light orange liquid.

Can cause irritation to exposed areas of body. Severity of injury depends largely on duration of exposure. Immediate action is necessary to limit severity of injury.

Hydrogen chloride will be produced from decomposition.

POTENTIAL HEALTH EFFECTS

EYE: May cause irritation.

SKIN: Not likely to cause skin irritation.

INHALATION: Should not be harmful if inhaled.
INGESTION: Possible irritant if swallowed.

CHRONIC EXPOSURE/CARCINOGENICITY: This substance not listed as a potential carcinogen by IARC.

SIGNS AND SYMPTOMS OF OVEREXPOSURE: Eye irritation.

AGGRAVATION OF PRE-EXISTING CONDITIONS: None known.

POTENTIAL ENVIRONMENTAL EFFECTS: None known.

SECTION 4: FIRST AID MEASURES

FIRST AID PROCEDURES

EYE CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes, lifting eyelids occasionally. Get medical attention at once.

SKIN CONTACT: Remove contaminated clothing and immediately wash exposed area for 15 minutes. Get medical attention if necessary.

INHALATION: Move to fresh air. If breathing has stopped administer artificial respiration. Get medical attention immediately.

INGESTION: Give large amounts of water. Do not induce vomiting. Get medical attention immediately.

NOTE TO PHYSICIANS: None.

SECTION 5: FIRE FIGHTING MEASURES

FLASH POINT: Not available

AUTOIGNITION TEMPERATURE: Not available

UPPER FLAMMABLE LIMIT: Not available

LOWER FLAMMABLE LIMIT: Not available

FLAMMABILITY CLASS (OSHA): Not applicable

FLAME PROPAGATION/BURNING RATE: Not available

UNIQUE FIRE PROPERTIES: HCI is produced.

HAZARDOUS COMBUSTION PRODUCTS: HCI is produced.

EXTINGUISHING MEDIA: Use water, dry chemicals, carbon dioxide, sand or foam. Use extinguishing media appropriate for surrounding fire.

PROTECTION OF FIREFIGHTERS: Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coat, gloves and rubber boots), including a positive pressure NIOSH approved self-contained breathing apparatus. Water may be used to keep fire-exposed containers cool until fire is out.

SECTION 6: ACCIDENTAL RELEASE MEASURES

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

ENVIRONMENTAL PRECAUTIONS: None
METHODS FOR CLEANING UP: Contain large spills and pump to recover. Small spills can be mopped up and recovered.

SECTION 7: HANDLING AND STORAGE

SAFE HANDLING RECOMMENDATIONS

VENTILATION: Use general ventilation

FIRE PREVENTION: Not flammable

SPECIAL HANDLING REQUIREMENTS: Use appropriate PPE

SAFE STORAGE RECOMMENDATIONS

CONTAINMENT: Secondary containment is recommended.

STORAGE ROOM RECOMMENDATIONS: Store in cool, dry place. Keep container closed when not in use; keep out of the reach of children.

INCOMPATIBLE MATERIALS: None known.

STORAGE CONDITIONS: Store in cool, dry place. Keep container closed when not in use; keep out of the reach of children.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: General ventilation

PERSONAL PROTECTIVE EQUIPMENT (PPE)

EYE/FACE PROTECTION: Safety glasses are recommended under normal conditions.

SKIN PROTECTION: Avoid contact with skin.

HAND PROTECTION: Chemical resistant gloves are recommended to minimize potential irritation from handling.

RESPIRATORY PROTECTION: None required where adequate ventilation conditions exist.

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

<table>
<thead>
<tr>
<th>INGREDIENT</th>
<th>PERMISSIBLE EXPOSURE LIMITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS NO.</td>
<td>OSHA</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
</tr>
<tr>
<td>Not Applicable</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>
## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**COLOR:** Clear to light orange  
**PHYSICAL FORM:** Liquid  
**pH:** Not applicable  
**VAPOR DENSITY:** 4.10  
**MELTING POINT:** Not known  
**SOLUBILITY IN WATER:** Fully soluble  

**SHAPE:** Liquid  
**ODOR:** None  
**VAPOR PRESSURE:** Not known  
**BOILING POINT:** Not known  
**FREEZING POINT:** Not known  
**SPECIFIC GRAVITY OR DENSITY:** 1.6

**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:** None known  
**MATERIALS TO AVOID (INCOMPATIBILITY):** None known  
**HAZARDOUS DECOMPOSITION PRODUCTS:** Hydrogen Chloride  
**HAZARDOUS POLYMERIZATION:** Will not occur

## SECTION 11: TOXICOLOGICAL INFORMATION

**ORAL LD$_{50}$ (rat):** Not available  
**DERMAL LD$_{50}$ (rabbit):** Not available  
**DERMAL LD$_{50}$ (rat):** Not available  

**SKIN IRRITATION:** No signs or erythema or edema were noted at any observation point. Based upon the evaluation criteria of the protocol, this substance is considered a non-irritant.  
**EYE IRRITATION:** Not available  
**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
**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):**

- **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:** Components are listed

**CERCLA REPORTABLE QUANTITY (RQ):**

<table>
<thead>
<tr>
<th>CHEMICAL NAME</th>
<th>RQ</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>CHEMICAL NAME</th>
<th>TPQ</th>
<th>RQ</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

**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?

<table>
<thead>
<tr>
<th>ACUTE HEALTH HAZARD</th>
<th>CHRONIC HEALTH HAZARD</th>
<th>FIRE HAZARD</th>
<th>REACTIVE HAZARD</th>
<th>SUDDEN RELEASE OF PRESSURE</th>
</tr>
</thead>
<tbody>
<tr>
<td>YES</td>
<td>NO</td>
<td>NO</td>
<td>NO</td>
<td>NO</td>
</tr>
</tbody>
</table>

**SARA TITLE III SECTION 313 TOXIC CHEMICALS INFORMATION:**

<table>
<thead>
<tr>
<th>CHEMICAL NAME</th>
<th>CAS NO.</th>
<th>CONCENTRATION (%)</th>
</tr>
</thead>
</table>
CALIFORNIA PROPOSITION 65: The following chemical(s) is/are known to the state of California to cause cancer or reproductive toxicity:

<table>
<thead>
<tr>
<th>CHEMICAL NAME</th>
<th>CAS NO.</th>
<th>CONCENTRATION (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

SECTION 16: OTHER INFORMATION

REVISION INFORMATION:
MSDS sections(s) changed since last revision of document:
- Section 1 – Emergency telephone number updated
- Section 2 – Potential health effects on skin updated
- Section 9 – Color, solubility, and specific gravity updated
- Section 11 – Most of the information in this section was updated
- Section 13 – Changed statement from “does” to “does not” meet the criteria of hazardous waste under RCRA.

DISCLAIMER:
******************************************************************************
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MSDS PREPARED BY: Jeremy Heath, EH&S Manager