

Material Safety Data Sheet

SeaKlear: Metal Stain Control

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: Metal Stain Control**
Synonyms: None
Chemical Name: Not available
Chemical Formula: Not available
CAS No.: Not applicable (mixture)
EPA Registration #: Not applicable
Product Use: Metallic stain removal and prevention of hard water scaling in swimming pools.

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

| CAS NO. | COMPONENT | % | OSHA HAZARDOUS? |
|---------------------|--|---------------------|-----------------|
| <i>Trade Secret</i> | <i>Trade Secret</i> | <i>Trade Secret</i> | YES |
| | <i>All other components are either non-hazardous or below de minimus quantities.</i> | | NO |

NOTE: See Section 8 for permissible exposure limits.

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Colorless to slightly hazy liquid with a slight odor.

WARNING! Corrosive to eyes and skin. May be harmful if inhaled or ingested.

POTENTIAL HEALTH EFFECTS

EYE: Corrosive to eyes. Redness, watering, and itching characterize inflammation of the eye.

SKIN: Corrosive to skin. Skin contact may produce burns. Itching, scaling, reddening, or blistering characterizes skin inflammation.

INHALATION: May be harmful if inhaled. Do not breathe spray mists of the undiluted product. Effects will depend upon solution strength and length of time of exposure.

INGESTION: May be harmful if ingested.

CHRONIC EXPOSURE/CARCINOGENICITY: Not listed as a carcinogen by OSHA, IARC, or NTP.

SIGNS AND SYMPTOMS OF OVEREXPOSURE: Redness, watering, and itching characterize inflammation of the eye. Skin contact may produce burns. Itching, scaling, reddening, or blistering characterizes skin inflammation.

AGGRAVATION OF PRE-EXISTING CONDITIONS: None known.

POTENTIAL ENVIRONMENTAL EFFECTS: None known.

SECTION 4: FIRST AID MEASURES

FIRST AID PROCEDURES

EYE CONTACT: In case of contact, hold eyelids apart and immediately flush eyes with a steady, gentle stream of water for at least 15 minutes. Seek medical attention.

SKIN CONTACT: In case of contact, immediately wash with plenty water. Repeat washing. Remove contaminated clothing and shoes. Clean contaminated clothing and shoes before re-use. If irritation persists consult a health care professional.

INHALATION: Immediately remove victim to fresh air. If individual experiences nausea, headache, or dizziness, has difficulty in breathing or is cyanotic, seek medical attention.

INGESTION: Do not induce vomiting. Rinse with copious amounts of water or milk. Irrigate the esophagus and dilute stomach contents by slowly giving one (1) to two (2) glasses of water or milk. Avoid giving alcohol or alcohol related products. Incases where the individual is semi-comatose, comatose or convulsing, do not give fluids by mouth. In case of intentional ingestion of the product, seek medical assistance immediately; take individual to nearest medical facility.

NOTE TO PHYSICIANS: Not available.

SECTION 5: FIRE FIGHTING MEASURES

FLASH POINT: >100°C

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: None known, but carbon monoxide may be formed upon burning.

EXTINGUISHING MEDIA: Water fog, carbon dioxide, foam or dry chemical.

PROTECTION OF FIREFIGHTERS: Firefighters should wear positive pressure self-contained breathing apparatus and full turnout gear.

SECTION 6: ACCIDENTAL RELEASE MEASURES

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

ENVIRONMENTAL PRECAUTIONS: None known.

METHODS FOR CLEANING UP: Minimize area affected by spill or leak. Block any potential routes to water systems. Recover as much of the pure product as possible into appropriate containers. Clay, soil, or commercially available absorbents may be used to recover any material that cannot readily be recovered as pure product. Ensure that product does not come into contact with incompatible materials.

SECTION 7: HANDLING AND STORAGE

SAFE HANDLING RECOMMENDATIONS

VENTILATION: Use dilution ventilation to control vapor and/or mist level.

FIRE PREVENTION: No special requirements.

SPECIAL HANDLING REQUIREMENTS: Use appropriate PPE (see Section 8).

SAFE STORAGE RECOMMENDATIONS

CONTAINMENT: Keep container closed when not in use.

STORAGE ROOM RECOMMENDATIONS: No special requirements.

INCOMPATIBLE MATERIALS: Steel, strong bases, strong oxidizers and strong alkali.

STORAGE CONDITIONS: No special requirements.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Use dilution ventilation to control vapor and/or mist level.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

EYE/FACE PROTECTION: Wear safety glasses with side shields or goggles.

SKIN PROTECTION: Chemical resistant apron and shoes is recommended.

HAND PROTECTION: 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.

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:** Colorless to slightly hazy**PHYSICAL FORM:** Liquid**pH:** <1.1 – 1.6**VAPOR DENSITY:** Not available**MELTING POINT:** Not available**SOLUBILITY IN WATER:** Soluble**SHAPE:** Liquid**ODOR:** Slight odor**VAPOR PRESSURE:** Not available**BOILING POINT:** >100°C**FREEZING POINT:** <0°C**SPECIFIC GRAVITY OR DENSITY:** 1.056

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 under normal conditions.**CONDITIONS TO AVOID:** Elevated temperatures and heat.**MATERIALS TO AVOID (INCOMPATIBILITY):** Steel, strong bases, strong oxidizers and strong alkali.**HAZARDOUS DECOMPOSITION PRODUCTS:** Oxides of phosphorous and carbon; acids of phosphorous, phosphine, oxides of carbon, oxides of nitrogen.**HAZARDOUS POLYMERIZATION:** Will not occur.**SECTION 11: TOXICOLOGICAL INFORMATION****ORAL LD₅₀ (mice):** 1800 mg/kg**DERMAL LD₅₀ (rabbit):** > 2000 MG/KG**SKIN IRRITATION:** Corrosive**EYE IRRITATION:** Corrosive**SKIN SENSITIZATION:** Not available.**ADDITIONAL INFORMATION:** TARGET ORGANS: Neat product may cause damage to the following organs: blood, gastrointestinal tract, upper respiratory tract, skin, eyes, and bones.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY (for neat product):

- LC₅₀ = 527 mg/l 48 hours Daphnia magna
- LC₅₀ = 368 mg/l 96 hours Rainbow Trout
- LC₅₀ = 868 mg/l 96 hours Bluegill sunfish

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 may 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: | Corrosive liquid, acidic, organic, n.o.s. (Phosphonic acid) |
| Hazard Class: | 8 |
| Identification Number (UN Number): | UN3265 |
| Packing Group (PG): | III |

SECTION 15: REGULATORY INFORMATION

TSCA STATUS: 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 | 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:

- Miscellaneous formatting updates throughout.
- Section 9 – pH, freezing point and specific gravity updated.
- Section 10 – hazardous decomposition products updated.
- Section 11 – Toxicity data added
- Section 12 – Ecotoxicity data added
- Section 14 – Transportation information updated.

DISCLAIMER:

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