

Vanson HaloSource, Inc.
Material Safety Data Sheet

Material Name: **SeaKlear® Phosphate Remover**
Telephone No: 425-881-6464

VHI-MSDS-02.36 REV 05
Date Prepared: 12-19-05

24-HOUR EMERGENCY PHONE: CHEMTREC 800-424-9300

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Manufacturer's Name: Vanson HaloSource, Inc.
Corporate Address: 14716 NE 87th Street, Redmond, WA 98052
Manufacturer's Telephone: (425) 881-6464 (Monday-Friday, 8AM-5PM PDT)
Emergency Telephone: 800-424-9300 Chemtrec (24 Hours)
Material/Trade/Product Name: Phosphate Remover
Synonyms: None
Chemical Name: Lanthanum Chloride, 7 hydrate (99.9%)
CAS No.: Not Applicable
Product Use: Removes phosphates from water

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

CAS NO.	HAZARDOUS INGREDIENT (S)	%	OSHA HAZARDOUS ?
20211-76-1	Lanthanum Chloride Hydrate	99.99	YES

NOTE: See Section 8 for permissible exposure limits.

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Clear to slightly yellow 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: Possible skin irritant.

INHALATION: Should not be harmful if inhaled.

INGESTION: Possible irritant if swallowed.

Vanson HaloSource, Inc.
Material Safety Data Sheet

Material Name: **SeaKlear® Phosphate Remover**
Telephone No: 425-881-6464

VHI-MSDS-02.36 REV 05
Date Prepared: 12-19-05

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

SIGNS AND SYMPTOMS OF OVEREXPOSURE: Eye and/or skin 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 applicable

UPPER FLAMMABLE LIMIT: Not applicable

FLAMMABILITY CLASS (OSHA): Not applicable

AUTOIGNITION TEMPERATURE: Not applicable

LOWER FLAMMABLE LIMIT: Not applicable

FLAME PROPAGATION/BURNING RATE: Not applicable

UNIQUE FIRE PROPERTIES: HCl is produced.

HAZARDOUS COMBUSTION PRODUCTS: HCl 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.

Vanson HaloSource, Inc.
Material Safety Data Sheet

Material Name: **SeaKlear® Phosphate Remover**
Telephone No: 425-881-6464

VHI-MSDS-02.36 REV 05
Date Prepared: 12-19-05

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.

Vanson HaloSource, Inc.
Material Safety Data Sheet

Material Name: **SeaKlear® Phosphate Remover**
Telephone No: 425-881-6464

VHI-MSDS-02.36 REV 05
Date Prepared: 12-19-05

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

RESPIRATORY PROTECTION: None required where adequate ventilation conditions exist.

GOOD HYGEIENE/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: Clear to slightly yellow
PHYSICAL FORM: Liquid
pH: Not applicable
VAPOR DENSITY: 4.10
MELTING POINT: Not known
SOLUBILITY IN WATER: Appreciable (more than 10%)

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

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 LD₅₀ (rat): 4200

DERMAL LD₅₀ (rat): 106

Vanson HaloSource, Inc.
Material Safety Data Sheet

Material Name: **SeaKlear® Phosphate Remover**
Telephone No: 425-881-6464

VHI-MSDS-02.36 REV 05
Date Prepared: 12-19-05

SCU, LD₅₀(MG/KG) (mouse): 2424

IV LD₅₀ (MG/KG) (mouse): 18

SKIN IRRITATION (rabbit): Not available

SKIN SENSITIZATION (guinea pig): Not available

EYE IRRITATION (rabbit): Not available

SECTION 12: ECOLOGICAL INFORMATION

Fish 96-hour LC ₅₀	=Not available
Daphnia 48-hour LC ₅₀	=Not available
Green algae 96-hour EC ₅₀	=Not available
Fish Chronic Value (ChV)	=Not available
Daphnia ChV	=Not available
Algae ChV	=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):

DOT Proper Shipping Name:	Not regulated
DOT Hazard Class:	Not regulated
Packing Group:	Not regulated
UN Number:	Not regulated

SECTION 15: REGULATORY INFORMATION

TSCA STATUS: Not listed

Vanson HaloSource, Inc.
Material Safety Data Sheet

Material Name: **SeaKlear® Phosphate Remover**
Telephone No: 425-881-6464

VHI-MSDS-02.36 REV 05
Date Prepared: 12-19-05

CERCLA REPORTABLE QUANTITY (RQ):

CHEMICAL NAME	RQ
Not applicable	Not applicable

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

CHEMICAL NAME	TPQ	RQ
None	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 (%)
None	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 (%)
None	Not applicable	Not applicable

SECTION 16: OTHER INFORMATION

REVISION INFORMATION:

MSDS sections(s) changed since last revision of document: In an attempt to make Vanson-HaloSource's MSDSs more user friendly, as well as to keep current with all applicable regulations, all of the sections in this MSDS have had slight to significant changes since the last revision.

DISCLAIMER:

**

The above information is based upon information Vanson-HaloSource Inc. believes to be reliable and is supplied for informational purposes only. Vanson-HaloSource Inc. disclaims any liability for damage which results from the use of

Vanson HaloSource, Inc.
Material Safety Data Sheet

Material Name: **SeaKlear® Phosphate Remover**
Telephone No: 425-881-6464

VHI-MSDS-02.36 REV 05
Date Prepared: 12-19-05

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 Vanson-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