

Vanson HaloSource, Inc
Material Safety Data Sheet

Material Name: **SEA-KLEAR 4-in-1 Clarifier**
Telephone No: **425-881-6464**

VHI-MSDS-02.13 Rev: 2
Date Prepared: 12-13-02

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

SECTION I – CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Manufacturer's Name: Vanson HaloSource, Inc.
Corporate Address: 14716 NE 87th Street, Redmond, WA 98052
Emergency Phone: 800-424-9300 Chemtrec
Manufacturer's Phone: (425) 881-6464
Material Name: SEA-KLEAR 4-in-1 Clarifier
Chemical Formula: NA
Chemical Name: Chitosan acetate solution

SECTION II – COMPOSITION, INFORMATION ON INGREDIENTS

CAS NO.	INGREDIENT	CONCENTRATION	EXPOSURE LIMITS
9012-71-4	Chitosan	< 1 %	OSHA PEL: N/A OSHA STEL: N/A ACGIH TLV: N/A
64-19-7	Acetic Acid	< 1 %	OSHA PEL: N/A OSHA STEL: N/A ACGIH TLV: N/A
	Water	> 98 %	OSHA PEL: N/A OSHA STEL: N/A ACGIH TLV: N/A

SECTION III – HAZARDS IDENTIFICATION

PRINCIPAL HEALTH HAZARDS, INCLUDING SIGNIFICANT ROUTES, EFFECTS, AND SYMPTOMS OF OVEREXPOSURE AND MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE MAY BE:

EYE: NA

SKIN: NA

INHALATION: NA

INGESTION: NA

CARCINOGENICITY: Not listed by National Toxicology Program (NTP) OSHA, or International Agency for Research on Cancer (IARC)

SECTION IV - FIRST AID

EYES: NA

SKIN: NA

INHALATION: NA

INGESTION: NA

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SECTION V - FIRE FIGHTING MEASURES

HAZARDOUS COMBUSTION PRODUCTS: NA

EXTINGUISHING MEDIA: Does not burn. Use water, dry chemicals, carbon dioxide, sand or foam. Use extinguishing media appropriate for surrounding fire.

FIREFIGHTING INSTRUCTIONS: 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.

FLASH POINT: Not applicable.

SECTION VI – ACCIDENTAL RELEASE MEASURES

SPILL: Wear suitable protective clothing. Dilute with water and hose down.

DISPOSAL INFORMATION: Material is 100% biodegradable, is nontoxic and can be disposed of in any approved manner. Treatment, storage, transportation and disposal must be in accordance with applicable Federal State/Provincial and local regulations.

DISPOSAL METHODS: Dilute with water and hose down.

SECTION VII - HANDLING & STORAGE

HANDLING & STORAGE PRECAUTIONS: NA

SECTION VIII - EXPOSURE CONTROLS/ PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT (PPE): Good hygiene practices should be strictly followed. Before eating, drinking or smoking, wash face and hands thoroughly. For operations where eye or face contact may occur, wear chemical goggles or face shield. Showers and eyewash facilities should be accessible.

EYE PROTECTION: Not required with normal use.

SKIN PROTECTION: Not required with normal use.

PROTECTIVE CLOTHING: NA

PROTECTIVE FOOTWEAR: NA

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RESPIRATORY PROTECTION: NA

VENTILATION REQUIREMENTS: Generally adequate

SECTION IX - PHYSICAL & CHEMICAL PROPERTIES

PHYSICAL FORM: Clear solution; slight odor

BOILING POINT: 211°F

MELTING POINT: NA

pH: unknown

SOLUBILITY IN WATER: Soluble.

SPECIFIC GRAVITY: 1.004

SECTION X - STABILITY & REACTIVITY DATA

CHEMICAL STABILITY: Stable.

HAZARDOUS POLYMERIZATION: Will not occur.

INCOMPATIBLES: NA

DECOMPOSITION PRODUCTS: Decomposition will not occur.

Material is bio-degradable.

SECTION XI - TOXICOLOGICAL INFORMATION

ORAL Rat LD₅₀ (MG/KG): NA

lpr Rat, LD₅₀(MG/KG): NA

SCU Mouse, LD₅₀(MG/KG): NA

IV-Mouse, LD₅₀(MG/KG): NA

DERMAL LD₅₀ (rabbit): NA

EYE IRRITATION (rabbit): NA

SKIN IRRITATION (rabbit): NA

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SECTION XII - ECOLOGICAL INFORMATION

Fish 96-hour LC₅₀ = NA
Daphnia 48-hour LC₅₀ = NA
Green algae 96-hour EC₅₀ = NA
Fish Chronic Value (ChV) = NA
Daphnia ChV = NA
Algae ChV = NA

GENERAL:

SECTION XIII - DISPOSAL CONSIDERATION

WASTE DISPOSAL METHOD: Dispose of in accordance with all applicable federal, local and State environmental regulations. Material is 100% biodegradable, is nontoxic and can be disposed of in any approved manner.

SECTION XIV - TRANSPORTATION INFORMATION

DOT Proper Shipping Name: Chemicals, N.O.S. (non-regulated) (Domestic & International)
DOT Hazard Class: Not regulated as a hazardous material
Packing Group: Not determined
UN Number: Not determined
Product RQ (lbs.): No limit
DOT Label: Miscellaneous
DOT Placard: Not required
Freight Class (package): Not determined

SECTION XV - REGULATORY INFORMATION

NOTE:

MATERIAL IS REPORTED IN EPA TSCA INVENTORY LIST?: No

MATERIAL IS LISTED AS A CARCINOGEN/POTENTIAL CARCINOGEN IN FOLLOWING?: No

NTP ANNUAL REPORT: No **IARC GROUP I OR II:** No **OSHA 29CFR PART 1910 SUBPART Z:** No

DOES PRODUCT CONTAIN A TOXIC CHEMICAL SUBJECT TO SARA TITLE III SECTION 313 REPORTING: No

SARA TITLE III SECTION 311/312 CLASSIFICATIONS: None

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SECTION XVI – OTHER INFORMATION

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 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.