

Vanson HaloSource, Inc  
Material Safety Data Sheet

Material Name: **SEA-KLEAR Natural Clarifier**  
Telephone No: **425-881-6464**

**VHI-MSDS-02.13 Rev 03**  
Date Prepared: 04-28-05

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

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**SECTION I – CHEMICAL PRODUCT & COMPANY IDENTIFICATION**

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**Manufacturer's Name:** Vanson HaloSource, Inc.  
**Corporate Address:** 14716 NE 87<sup>th</sup> Street, Redmond, WA 98052  
**Emergency Phone:** 800-424-9300 Chemtrec  
**Manufacturer's Phone:** (425) 881-6464  
**Material Name:** SEA-KLEAR Natural Clarifier  
**Chemical Name:** Chitosan acetate

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**SECTION II – COMPOSITION, INFORMATION ON INGREDIENTS**

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CAS NO.	INGREDIENT	EXPOSURE LIMITS
9012-76-4	Chitosan	NA
64-19-7	Acetic Acid	
	Water	

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**SECTION III – HAZARDS IDENTIFICATION**

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

**EYE:** May be mildly irritating to eyes.

**SKIN:** Not hazardous to skin.

**INHALATION:** See first aid section below.

**INGESTION:** Not likely to be hazardous by ingestion.

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

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**SECTION IV - FIRST AID**

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**EYES:** Remove contact lenses (if applicable), flush with water for 15 minutes. Call a physician.

**SKIN:** Cleansing the skin after exposure is advisable.

**INHALATION:** If large amounts of fumes are inhaled, remove to fresh air and consult a physician.

**INGESTION:** Consult a physician if necessary.

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## SECTION V - FIRE FIGHTING MEASURES

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**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:** NA

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## SECTION VI – ACCIDENTAL RELEASE MEASURES

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**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.

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## SECTION VII - HANDLING & STORAGE

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**HANDLING & STORAGE PRECAUTIONS:** 10-50°C recommended (will freeze @ ~3°C). Shelf life is indefinite but viscosity will decrease over time. The container should be kept covered to prevent contamination.

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## SECTION VIII - EXPOSURE CONTROLS/ PERSONAL PROTECTION

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**PERSONAL PROTECTIVE EQUIPMENT (PPE):** Good hygiene practices should be strictly followed. Before eating, drinking or smoking, wash face and hands thoroughly. Emergency showers and eyewash facilities should be accessible.

**EYE PROTECTION:** Safety glasses recommended.

**SKIN PROTECTION:** Rubber gloves recommended.

**PROTECTIVE CLOTHING:** NA

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**PROTECTIVE FOOTWEAR:** NA

**RESPIRATORY PROTECTION:** NA

**VENTILATION REQUIREMENTS:** Generally adequate

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## SECTION IX - PHYSICAL & CHEMICAL PROPERTIES

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**PHYSICAL FORM:** Clear to pale yellow viscous liquid with a pungent vinegar odor.

**BOILING POINT:** 211°F

**MELTING POINT:** NA

**pH:** 3.0-4.5

**SOLUBILITY IN WATER:** Soluble.

**SPECIFIC GRAVITY:** 1.0-1.1 g/mL

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## SECTION X - STABILITY & REACTIVITY DATA

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**CHEMICAL STABILITY:** Stable.

**HAZARDOUS POLYMERIZATION:** Will not occur.

**INCOMPATIBLES:** Strong oxidizing material and strong bases.

**DECOMPOSITION PRODUCTS:** Decomposition will not occur.

Material is bio-degradable.

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## SECTION XI - TOXICOLOGICAL INFORMATION

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**ORAL Rat LD<sub>50</sub> (MG/KG):** NA

**lpr Rat, LD<sub>50</sub>(MG/KG):** NA

**SCU Mouse, LD<sub>50</sub>(MG/KG):** NA

**IV-Mouse, LD<sub>50</sub>(MG/KG):** NA

**DERMAL LD<sub>50</sub> (rabbit):** NA

**EYE IRRITATION (rabbit):** NA

**SKIN IRRITATION (rabbit):** NA

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**SECTION XII - ECOLOGICAL INFORMATION**

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Fish 96-hour LC <sub>50</sub>	=	NA
Daphnia 48-hour LC <sub>50</sub>	=	NA
Green algae 96-hour EC <sub>50</sub>	=	NA
Fish Chronic Value (ChV)	=	NA
Daphnia ChV	=	NA
Algae ChV	=	NA

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**SECTION XIII - DISPOSAL CONSIDERATION**

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**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.

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**SECTION XIV - TRANSPORTATION INFORMATION**

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<b>DOT Proper Shipping Name:</b>	Chemicals, N.O.S. (non-regulated) (Domestic & International)
<b>DOT Hazard Class:</b>	Not regulated as a hazardous material
<b>Packing Group:</b>	NA
<b>UN Number:</b>	NA
<b>Product RQ (lbs.):</b>	NA
<b>DOT Label:</b>	NA
<b>DOT Placard:</b>	NA

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**SECTION XV - REGULATORY INFORMATION**

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**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**

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