

Material Name: Heavy Flocculant
Telephone: 425-881-6464

VHI-MSDS-02.19 Rev-2
Date Prepared: 12-23-02

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
Manufacturer's Phone (Emergency): 800-424-9300 Chemtrec
Manufacturer's Phone (Other): (425) 881-6464
Material Name: Heavy Flocculant
Chemical Name: Cationic Polymer/Inorganic Complex Blend

SECTION II – COMPOSITION, INFORMATION ON INGREDIENTS

CAS NO.	INGREDIENT	%	EXPOSURE LIMITS
26062-79-3			OSHA PEL: NA OSHA STEL: N/A ACGIH TLV: NA
26590-05-6			
42751-79-1			
1327-41-9			
7732-18-5			

SECTION III – HAZARDS IDENTIFICATION

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

EYE: Irritating to eyes.

SKIN: Not normally irritating to skin.

INHALATION: Unknown.

INGESTION: Harmful if swallowed.

CARCINOGENICITY: None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

SECTION IV - FIRST AID

EYES: Immediately flush eyes with plenty of water for at least 15 minutes. See a physician.

SKIN: Wash with soap and water. See physician if irritation occurs. Remove and wash contaminated clothing.

Material Name: Heavy Flocc
Telephone: 425-881-6464

VHI-MSDS-02.19 Rev-2
Date Prepared: 12-23-02

INHALATION: Remove to fresh air.

INGESTION: Harmful if swallowed. No further first aid info

SECTION V - FIRE FIGHTING MEASURES

HAZARDOUS COMBUSTION PRODUCTS: NA.

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

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: Non below 212xF

SECTION VI – ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Flush liquid to sewer with copious amounts of water.

LARGE SPILL: Dam area to prevent spill from entering fish-bearing waters. Pump appropriate containers. Dispose of as below.

DISPOSAL INFORMATION: In accordance with federal, state & local regulations.

DISPOSAL METHODS: Product is hazardous waste, EPA Hazard Code © EPA Hazardous Waste Number D002 due to pH. Hazardous Waste 40CFR261.

SECTION VII - HANDLING & STORAGE

HANDLING & STORAGE PRECAUTIONS: Don not store in copper or steel containers.

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: Safety glasses recommended.

Material Name: Heavy Flocc
Telephone: 425-881-6464

VHI-MSDS-02.19 Rev-2
Date Prepared: 12-23-02

SKIN PROTECTION: Avoid contact with skin.
PROTECTIVE CLOTHING: Protective clothing & rubber gloves.
PROTECTIVE FOOTWEAR: Protective footwear recommended.
RESPIRATORY PROTECTION: Not required with normal use.
VENTILATION REQUIREMENTS: Generally adequate ventilation recommended.

SECTION IX - PHYSICAL & CHEMICAL PROPERTIES

PHYSICAL FORM: Clear, purple liquid.
ODOR: Odorless
MELTING POINT/FREEZE POINT: 20°C
SOLUBILITY IN WATER: Completely miscible
BOILING POINT: 100°C / 212°F
pH: 4.0-4.5
SPECIFIC GRAVITY: 1.17

SECTION X - STABILITY & REACTIVITY DATA

CHEMICAL STABILITY: Stable
HAZARDOUS POLYMERIZATION: Will not occur.
INCOMPATIBLES: Concentrated product is incompatible with copper and untreated steel.
DECOMPOSITION PRODUCTS: None

SECTION XI - TOXICOLOGICAL INFORMATION

ORAL LD₅₀ (rat): NA
DERMAL LD₅₀ (rabbit): NA
EYE IRRITATION (rabbit): N/A
SKIN IRRITATION (rabbit): N/A
INHALATION 4-hr LC₅₀ (rat): NA

SECTION XII - ECOLOGICAL INFORMATION

Material Name: Heavy Flocculant
Telephone: 425-881-6464

VHI-MSDS-02.19 Rev-2
Date Prepared: 12-23-02

Fish 96-hour LC ₅₀	=	N/A
Daphnia 48-hour LC ₅₀	=	N/A
Green algae 96-hour EC ₅₀	=	N/A
Fish Chronic Value (ChV)	=	N/A
Daphnia ChV	=	N/A
Algae ChV	=	N/A

SECTION XIII - DISPOSAL CONSIDERATION

WASTE DISPOSAL METHOD: State and local regulations may differ from federal regulations. Dispose of containers and unused contents in accordance with all applicable federal, state, and local regulations.

SECTION XIV - TRANSPORTATION INFORMATION

DOT Proper Shipping Name:	Compounds, water clarifying, Nal, Liquid, Item 50340 Sub 2
DOT Hazard Class:	None
Packing Group:	None
UN Number:	None
Product RQ (lbs.):	NA
DOT Label:	NA
DOT Placard:	NA
Freight Class (package):	NA

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

This product does not contain any toxic chemicals in quantities subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR Part 732.

SARA TITLE III SECTION 311/312 CLASSIFICATIONS: None

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.