

Material Safety Data Sheet

MSDS ID: 976-186

*** Section 1 - Chemical Product and Company Identification ***

Product Name: HSI 976

Manufacturer Information

Heritage Systems Inc

2471 Solano Ave, Suite 141
Napa, CA. 9455
707-258-0553

Emergency Telephone Number: 1-800-535-5053
INFOTRAC 24-hours everyday

Toll Free Non-emergency Number: 1-800- 644-4060

General Comments

Emergency telephone numbers are to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving the product. All Non-emergency questions should be directed to the Toll Free, Non-Emergency number above.

*** Section 2 - Hazards Identification ***

Emergency Overview

This product is a skin and eye irritant.

Potential Health Effects: Eyes

Irritant

Potential Health Effects: Skin

Irritant

Potential Health Effects: Ingestion

Not expected to be harmful by ingestion. If swallowed, do not induce vomiting.

Potential Health Effects: Inhalation

Avoid inhalation of mist/aerosol forms of the product.

HMIS Ratings: Health: 2 Fire: 0 Reactivity: 0 Pers. Prot.: B

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

*** Section 3 - Composition / Information on Ingredients ***

CAS #	Component	Percent
26062-79-3	Poly(diallyldimethyl ammonium chloride)	15-50%

Component Information/Information on Non-Hazardous Components

All components are TSCA listed in 40 CFR 700. OSHA classifies this product as a skin and eye irritant.

*** Section 4 - First Aid Measures ***

First Aid: Eyes

Immediately flush eyes with water for at least 15 minutes, while holding eyelids open. Seek medical attention.

First Aid: Skin

Flush thoroughly with soap and water for at least 15 minutes.

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First Aid: Ingestion

If ingestion of a large amount does occur, seek medical attention.

First Aid: Inhalation

Not expected to be harmful. Move to fresh air.

*** Section 5 - Fire Fighting Measures ***

General Fire Hazards

Not expected to burn unless heated to dryness. Residue may ignite.

Upper Flammable Limit (UFL): Not determined

Lower Flammable Limit (LFL): Not determined

Method Used: Not applicable

Flash Point: Not applicable

Flammability Classification:

Auto Ignition: Not determined

Hazardous Combustion Products

On thermal decomposition oxides of carbon, nitrogen and hydrochloric acid fumes may be formed.

Extinguishing Media

Dry chemical, foam, carbon dioxide, water fog.

Fire Fighting Equipment/Instructions

Firefighters should wear full protective clothing including self contained breathing apparatus.

NFPA Ratings: Health: 2 Fire: 0 Reactivity: 0 Other: C

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

*** Section 6 - Accidental Release Measures ***

Containment Procedures

Absorb spill with inert material. Shovel material into appropriate container for disposal.

Clean-Up Procedures

None specified.

Evacuation Procedures

None.

Special Procedures

Remove spills promptly as they may make floors slippery. Several washes and/or the use of detergents may be necessary to completely clean any spill.

*** Section 7 - Handling and Storage ***

Handling Procedures

Handle as an irritant.

Storage Procedures

Prevent product from freezing.

*** Section 8 - Exposure Controls / Personal Protection ***

A: Component Exposure Limits

No information is available.

Engineering Controls

Provide adequate ventilation to minimize worker exposure.

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PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/Face

Safety glasses or goggles.

Personal Protective Equipment: Skin

Skin contact should be minimized. Impervious gloves (rubber or neoprene) are recommended.

Personal Protective Equipment: Respiratory

Not required under normal operating conditions.

Personal Protective Equipment: General

Wash thoroughly after handling. Wash contaminated clothing prior to use.

*** Section 9 - Physical & Chemical Properties ***

Appearance:	Viscous, amber liquid	Odor:	Amine or musty odor.
Physical State:	Liquid	pH:	5.0-7.0
Vapor Pressure:	Not Established	Vapor Density:	Not Established
Boiling Point:	> 212°F	Melting Point:	Not applicable
Solubility (H2O):	Fully soluble	Specific Gravity:	1.1 (water = 1)
Evaporation Rate:	>1 (butyl acetate =1)	Flash Point:	Not applicable
Bulk Density:	9.0 lbs./gallon		

Physical Properties: Additional Information

Caution. Spilled product creates very slippery conditions.

*** Section 10 - Chemical Stability & Reactivity Information ***

Chemical Stability

Stable under usual application conditions.

Chemical Stability: Conditions to Avoid

None identified.

Incompatibility

Strong oxidizers, iron, mild steel, copper, copper alloys and aluminum.

Hazardous Decomposition

None identified.

Hazardous Polymerization

Hazardous polymerization will not occur.

*** Section 11 - Toxicological Information ***

Acute and Chronic Toxicity

A: General Product Information

Eye and skin irritant. May aggravate existing medical conditions such as rashes, allergies or other sensitive areas. Symptoms may include reddening, swelling of affected areas with possible itching, burning or other discomfort.

B: Acute Toxicity-LD50/LC50

Poly(diallyldimethylammonium chloride) (26062-79-3)

LD50: Oral LD50 Rat: 3 g/kg

Carcinogenicity

A: General Product Information

NTP: No

IARC: No

OSHA: No

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B: Component Carcinogenicity

No information is available.

*** Section 12 - Ecological Information ***

Ecotoxicity

A: General Product Information

Aquatic LC50:

(*Ceriodaphnia Magna*: 48 hrs): 0.57 mg/l in 100 mg/l CaCO₃

(*Pimephales promelas*: 96 hrs): 16.3 mg/l in 180 mg/l CaCO₃; with 10 mg/l TOC (total organic carbon) from humic acid

(*Pimephales promelas*: 96 hrs): 0.75 mg/l in 100 mg/l CaCO₃

Aquatic toxicity is reduced by factors from 10 to 100 times in the presence of 5 to 10 mg/l organic carbon as is found in most surface waters.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

No information available,

Environmental Fate

The product is rapidly eliminated from the aquatic medium through irreversible adsorption onto suspended matter and dissolved organics.

*** Section 13 - Disposal Considerations ***

US EPA Waste Number & Descriptions

A: General Product Information

Incinerate or dispose of unadulterated product as a non-hazardous waste. Solidify and landfill according to local, state and federal regulations.

B: Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

Disposal Instructions

Contain and collect using absorbent material if needed. Flush residuals to drain for normal biological treatment. Place collected material into suitable containers for proper disposal.

*** Section 14 - Transportation Information ***

International Transportation Regulations

This product is not regulated as a hazardous material by the United States (DOT) or Canadian (TDG) transportation regulations.

*** Section 15 - Regulatory Information ***

US Federal Regulations

A: Clean Air Act

No information is available.

B: Component Analysis

No information is available.

Component Analysis - State

None of this product's components listed in Section 2 are on the state lists from CA, FL, MA, MN, NJ, or PA.

Component Analysis - WHMIS IDL

No components are listed in the WHMIS IDL.

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Component Analysis - Inventory

Component CAS	#	TSCA	CAN	EEC
Poly(diallyldimethylammonium chloride)	26062-79-3	Yes	DSL	Not regulated as a polymer

*** Section 16 - Other Information ***

Other Information

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process unless specified in the text.

MSDS History

This is a revised MSDS. Section's 2 & 3 have been revised to reflect proposed 2004 ANSI Standards format recommendations for 2007 implementation.

Contact: Product Compliance Officer

Contact Phone: (800) 644-4060

This is the end of MSDS 976-186