



MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **HSI-617**
PRODUCT DESCRIPTION: *Antifoam*

COMPANY INFORMATION:
Heritage Systems Inc
2471 Solano Ave, Suite 141
Napa, California 94558
Non-emergency: 707-258-0553

Revised: October 23, 2006

24-HOUR EMERGENCY TELEPHONE:
INFOTRAC: 800-535-5053

2. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS #	HAZARD	WT %	ACGIH		OSHA	
				TLV _(TWA)	STEL	PEL _(TWA)	STEL
Water soluble polymer	None	Non-hazardous	< 25	NE	NE	NE	NE

Amounts specified are typical and do not represent a specification. Remaining components are proprietary, non-hazardous and/or present at amounts below reportable limits.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

Turbid, white liquid emulsion
Slight sweet odor
WARNING: May cause slight irritation to eyes. May cause slight irritation to skin with prolonged contact. Wear safety glasses and gloves when handling.
Wash thoroughly after handling.

POTENTIAL HEALTH EFFECTS Eye contact Skin contact Ingestion Inhalation

EYE CONTACT: Exposure to liquid product may be slightly irritating to eyes. Symptoms of exposure may include redness, swelling, tearing or pain.

SKIN CONTACT: Exposure to liquid product may be slightly irritating to skin. Symptoms of exposure may include redness, swelling or pain.

INGESTION: Exposure to liquid product may cause nausea and diarrhea. Do NOT ingest.

INHALATION: No information is available. Inhalation is not believed to be a likely route of exposure.

CHRONIC: Effects of chronic exposure are not expected to differ from the above-mentioned contact.

CARCINOGENS: This product and its components are not listed on NTP, IARC, OSHA or ACGIH lists as cancer-causing agents.

AGGRAVATION OF PRE-EXISTING CONDITIONS: There are no known medical conditions that would be possibly aggravated by exposure to this product.

4. FIRST AID MEASURES

EYE CONTACT: If this product contacts the eyes, immediately flush eyes with plenty of clean running water for at least fifteen (15) minutes, lifting the upper and lower eyelids occasionally. Remove contact lenses if worn. Seek medical attention if irritation persists.

SKIN CONTACT: If this product contacts the skin, immediately flush the affected area with soap and water for at least fifteen (15) minutes. If the product penetrates the clothing, promptly remove the contaminated clothing or shoes, and flush the affected area as described. Seek medical attention if irritation persists.

INGESTION: Induce vomiting and seek medical attention.

INHALATION: If this product is inhaled and symptoms occur, move the exposed person to fresh air promptly. Seek medical attention if symptoms persist.

NOTES TO PHYSICIAN: Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

5. FIRE FIGHTING MEASURES

FLASH POINT: None – aqueous solution.

FLAMMABLE LIMITS: NA

AUTOIGNITION TEMPERATURE: NA

EXTINGUISHING MEDIA: Use water, foam, dry chemical or carbon dioxide to extinguish fire.

FIRE/EXPLOSION HAZARD: Dried residue can thermally decompose, giving off irritating and possibly toxic fumes.

FIRE FIGHTING EQUIPMENT: Fire fighters should wear full protective equipment, and have self-contained breathing apparatus available.

SPECIAL PROCEDURES: Use water to cool containers exposed to a fire.

HAZARDOUS COMBUSTION PRODUCTS: None known.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Use proper personal protection (refer to Section 8).

ENVIRONMENTAL PRECAUTIONS: Run off from fire control or dilution water may cause pollution. Keep out of drains, municipal sewers, open bodies of water and water course.

CLEAN-UP METHODS: Safely stop source of spill. Clean up spills immediately. Restrict non-essential personnel from the area. Wear protective clothing, goggles and respirator if ventilation is not adequate. For small spills, flush to sewer. For large spills, squeegee and collect the spillage or vacuum the spillage. Place collected spillage into containers for reuse or disposal. Dispose according to local, state or federal regulations at an approved chemical waste reprocessing facility. Flush spill area with water.

7. HANDLING AND STORAGE

HANDLING: Use proper personal protection when handling (refer to Section 8). Use under well-ventilated conditions. Avoid contact with eyes, skin and clothing. Avoid breathing vapors and mists. Avoid prolonged or repeated contact. Do NOT ingest. Wash thoroughly after handling. Rinse container before disposal.

SHELF LIFE: The recommended shelf life is two (2) years. It is recommended that products be retested if stored for more than two (2) years. Under ideal storage conditions, the shelf life is almost indefinite.

STORAGE TEMPERATURE: The recommended storage temperature is above 32°F, preferably at room temperature (70°F).

GENERAL: Store closed containers in a cool, dry, well-ventilated area away from incompatible materials. This product is stable under normal conditions of handling and storage. Avoid cold temperatures.

8. EXPOSURE CONTROLS / PERSONAL PROTECTIVE EQUIPMENT

Please refer to Section 2 for applicable exposure limits.

EYE PROTECTION: To avoid contact with eyes, use safety glasses or chemical splash goggles. Face shield is recommended. Eye wash station should be available in the work area.

HAND PROTECTION: Use rubber or plastic gloves to minimize skin contact.

BODY PROTECTION: A rubber apron and boots are recommended to minimize contact. Full drench shower should be available in the work area.

RESPIRATOR: Use of respirator protection is not generally required. However, if exposure is above the stated limits or ventilation is inadequate, use a NIOSH approved acid gas/organic vapor respirator to reduce potential for inhalation exposure. When using respirator cartridges, they must be changed frequently to assure breakthrough exposure does not occur.

VENTILATION: General mechanical ventilation is recommended for enclosed areas.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Turbid, white liquid emulsion	Boiling Point:	100°C / 212°F
Odor:	Slight sweet	Freezing Point:	0°C / 32°F
Specific Gravity @ 68°F:	~ 1.00	Vapor Pressure:	23.75 mmHg
pH:	~ 7.0	Vapor Density (air = 1):	ND
Water Solubility:	Complete	VOC Content:	Non-volatile

10. STABILITY AND REACTIVITY

GENERAL STABILITY: This product is stable at ambient temperatures and atmospheric pressures.

INCOMPATIBLE MATERIALS: Strong oxidants.

HAZARDOUS POLYMERIZATION: Hazardous polymerization is not expected to occur under normal temperatures and pressures.

HAZARDOUS DECOMPOSITION PRODUCTS: None known.

11. TOXICOLOGICAL INFORMATION

	<u>Product 4817</u>	<u>Water soluble polymer</u>
Eye irritation:	None to slight	None to slight
Skin irritation:	None to slight	None to slight
Inhalation irritation:	None to slight	None to slight
Oral LD ₅₀ , Rat:	NDA	NDA
Dermal LD ₅₀ , Rabbit:	NDA	NDA
Inhalation LC ₅₀ , Rabbit:	NDA	NDA
Other toxicological data:	NA	NA

12. ECOLOGICAL INFORMATION

	<u>Product 4817</u>	<u>Water soluble polymer</u>
96 hr LC ₅₀ , Rainbow trout:	NDA	NDA
48 hr LC ₅₀ , Daphnia magna:	NDA	NDA
72 hr EC ₅₀ , Algae:	NDA	NDA

13. DISPOSAL CONSIDERATIONS

US EPA RCRA Status: This product is not considered to be a hazardous waste.
US EPA RCRA Hazardous waste code: NA

Do NOT dump into any sewers, on the ground or into any body of water. Rinse containers before disposal. Since emptied containers contain product residue, follow label warnings even after container is emptied. Dispose in accordance with all applicable federal, state and local laws and regulations.

14. TRANSPORT INFORMATION

The data provided in this section is for information only. Please apply the appropriate regulations to properly classify your shipment for transportation.

US DOT

Proper Shipping Name: Not DOT regulated
Hazard Class: NA
Hazard Identification Number: NA
Packing Group: NA
Transport Label: Scale Preventing/Scale Removing Liquid or Paste

15. REGULATORY INFORMATION

Components: Water soluble polymer

Carcinogenic Potential

Regulated by OSHA: No
Listed on NTP Report: No
Listed by IARC / Group: No
ACGIH Appendix A / Group: Not listed

US EPA Release Reporting

CERCLA (40 CFR 302):
Listed substance: Not listed
Reportable quantity: NA
Category: NA
RCRA waste number: NA
Unlisted substance: NA
Reportable quantity: NA
Characteristic: NA
RCRA waste number: NA

SARA TITLE III

Section 302 & 303 (40 CFR 355):
Listed substance: NDA

Reportable quantity: NDA
 Planning threshold: NDA
Section 311 & 312 (40 CFR 370):
 Hazard categories: NDA
 Planning threshold: NDA
Section 313 (40 CFR 372):
Listed toxic chemical:
 Reporting threshold: NDA

US TSCA
Listed/Exempt (40 CFR 710): NDA

CA PROP 65
 Carcinogen: NDA
 Reproductive toxin: NDA

16. OTHER INFORMATION

HMIS Rating

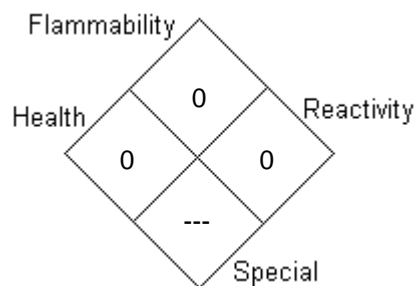
HEALTH	0
FLAMMABILITY	0
REACTIVITY	0
PROTECTION	B

B = Safety glasses, gloves

KEY

4 = Severe ACID = Acid
 3 = Serious ALK = Alkali
 2 = Moderate COR = Corrosive
 1 = Slight OX = Oxidizer
 0 = Minimal W = Use NO WATER

NFPA Rating



Legend:

ACGIH: American Conference of Governmental Industrial Hygiene
 A1: Confirmed human carcinogen
 A2: Suspected human carcinogen
 A3: Confirmed animal carcinogen
 CAS #: Chemical Abstract Service Registry number
 CERCLA: Comprehensive Environmental Response Compensation and Liability Act
 DOT: Department of Transportation
 EPA: Environmental Protection Agency
 HMIS: Hazardous Materials Identification System
 IARC: International Agency for Research on Cancer
 Group 1: Carcinogenic to humans
 Group 2A: Probably carcinogenic to humans
 Group 2B: Possibly carcinogenic to humans
 Group 3: Unclassified as carcinogenic to humans
 NA or N/A: Not applicable
 ND: Not determined
 NDA: No data available

NE: Not established
 NFPA: National Fire Protection Association
 NIOSH: National Institute for Occupational Safety and Health
 NTP: National Toxicology Program
 OSHA: Occupational Safety and Health Administration
 PEL: Permissible Exposure Limit
 RCRA: Resource Conservation and Recovery Act
 REL: Recommended Exposure Limit
 SARA TITLE III: Superfund Amendments and Reauthorization Act
 STEL: Short Term Exposure Limit (15 minute Time Weighted Average)
 TLV: Threshold Limit Value
 CEIL (C): Ceiling Exposure Limit
 TSCA: Toxic Substance Control Act
 TWA: Time Weighted Average
 VOC: Volatile Organic Compound
 > / <: Greater than / Less than
 ~: Approximately

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