

<b>HERITAGE SYSTEMS, INC.</b>		Page: 1
<b>SAFETY DATA SHEET</b>		Revision Date: 05/23/2015
		Print Date: 6/29/2015
		SDS Number: R0557329
<b>HSI 970</b>		Version: 1.2
657253		

29 CFR 1910.1200 (OSHA HazCom 2012)

## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

### Product identifier

Trade name : HSI 970  
FLOCCULANT

### Recommended use of the chemical and restrictions on use

Use of the Substance/Mixture : Flocculating agent

<b>Details of the supplier of the safety data sheet</b> Heritage Systems, Inc. 2471 Solano Ave, Suite 141 Napa, CA. 94558 United States of America	<b>Emergency telephone number</b> INFOTRAC: 1800-535-5053  <b>Product Information</b> 1-707-258-0553
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## SECTION 2. HAZARDS IDENTIFICATION

### GHS Classification

Skin irritation : Category 2

Specific target organ systemic toxicity - single exposure : Category 3 (Central nervous system)

### GHS Label element

Hazard pictograms :



Signal Word : Warning

Hazard Statements : Causes skin irritation.  
May cause drowsiness or dizziness.

Precautionary Statements : **Prevention:**  
Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.  
Wash skin thoroughly after handling.

<b>HERITAGE SYSTEMS, INC.</b>		Page: 2
<b>SAFETY DATA SHEET</b>		Revision Date: 05/23/2015
		Print Date: 6/29/2015
		SDS Number: R0557329
<b>HSI 970</b>		Version: 1.2
657253		

Use only outdoors or in a well-ventilated area.

Wear protective gloves.

**Response:**

IF ON SKIN: Wash with plenty of soap and water.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.

If skin irritation occurs: Get medical advice/ attention.

Take off contaminated clothing and wash before reuse.

**Storage:**

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

**Disposal:**

Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**

Static Accumulating liquid

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**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

Chemical nature : Static Accumulator

Chemical nature : Defatter

**Hazardous components**

Chemical Name	CAS-No.	Classification	Concentration (%)
ALIPHATIC HYDROCARBON	254504001-5164	Flam. Liq. 4; H227 Skin Irrit. 2; H315 STOT SE 3; H336	>= 20.00 - < 30.00
ALCOHOL ALKOXYLATES	254504001-5466	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318	>= 1.50 - < 5.00

Trade Secret Composition - Conceal the Identity + Concentration

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**SECTION 4. FIRST AID MEASURES**

<b>HERITAGE SYSTEMS, INC.</b>		Page: 3
<b>SAFETY DATA SHEET</b>		Revision Date: 05/23/2015
		Print Date: 6/29/2015
		SDS Number: R0557329
<b>HSI 970</b>		Version: 1.2
657253		

- General advice : Move out of dangerous area.  
Call a POISON CENTRE or doctor/physician if exposed or you feel unwell.  
Show this safety data sheet to the doctor in attendance.  
Symptoms of poisoning may appear several hours later.  
Do not leave the victim unattended.
- If inhaled : Move to fresh air.  
If unconscious place in recovery position and seek medical advice.  
Consult a physician after significant exposure.
- In case of skin contact : First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water.
- In case of eye contact : Flush eyes with water as a precaution.  
Remove contact lenses.  
Protect unharmed eye.  
If eye irritation persists, consult a specialist.
- If swallowed : Obtain medical attention.  
Do NOT induce vomiting.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.
- Most important symptoms and effects, both acute and delayed : Inhalation of high concentrations of this material, as could occur in enclosed spaces or during deliberate abuse, may be associated with cardiac arrhythmias. Sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to this material.  
This material is an aspiration hazard. Potential danger from aspiration must be weighed against possible oral toxicity (See Section 2 - Swallowing) when deciding whether to induce vomiting.  
Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:  
stomach or intestinal upset (nausea, vomiting, diarrhea)  
irritation (nose, throat, airways)  
Lung irritation  
Drowsiness  
confusion  
irregular heartbeat  
Convulsions  
Causes skin irritation.  
May cause drowsiness or dizziness.
- Notes to physician : No hazards which require special first aid measures.

<b>HERITAGE SYSTEMS, INC.</b>		Page: 4
<b>SAFETY DATA SHEET</b>		Revision Date: 05/23/2015
		Print Date: 6/29/2015
		SDS Number: R0557329
<b>HSI 970</b>		Version: 1.2
657253		

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## SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Water spray  
Foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : carbon dioxide and carbon monoxide  
Nitrogen oxides (NO<sub>x</sub>)  
Hydrocarbons  
toxic fumes
- Specific extinguishing methods :
- Product is compatible with standard fire-fighting agents.
- Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

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## SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Ensure adequate ventilation.  
Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.
- Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Keep in suitable, closed containers for disposal.
- Other information : Comply with all applicable federal, state, and local regulations.

<b>HERITAGE SYSTEMS, INC.</b>		Page: 5
<b>SAFETY DATA SHEET</b>		Revision Date: 05/23/2015
		Print Date: 6/29/2015
		SDS Number: R0557329
<b>HSI 970</b>		Version: 1.2
657253		

## SECTION 7. HANDLING AND STORAGE

- Advice on safe handling** : Avoid formation of aerosol.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Do not breathe vapours/dust.  
Do not smoke.  
Container hazardous when empty.  
Avoid exposure - obtain special instructions before use.  
Smoking, eating and drinking should be prohibited in the application area.  
For personal protection see section 8.  
Dispose of rinse water in accordance with local and national regulations.
- Conditions for safe storage** : Keep container tightly closed in a dry and well-ventilated place.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Observe label precautions.  
Electrical installations / working materials must comply with the technological safety standards.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
ALIPHATIC HYDROCARBON	254504001-5164	TWA	200 mg/m3 Non-aerosol (as total hydrocarbon vapor)	ACGIH
		REL	100 mg/m3	NIOSH/GUID E

- Engineering measures** : Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

### Personal protective equipment

- Respiratory protection** : In the case of vapour formation use a respirator with an approved filter.

A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has

<b>HERITAGE SYSTEMS, INC.</b>		Page: 6
<b>SAFETY DATA SHEET</b>		Revision Date: 05/23/2015
		Print Date: 6/29/2015
		SDS Number: R0557329
<b>HSI 970</b>		Version: 1.2
657253		

otherwise been determined. Protection provided by air-purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air-purifying respirator may not provide adequate protection.

- Hand protection  
Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Eye protection : Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist.
- Skin and body protection : Wear as appropriate:  
impervious clothing  
Safety shoes  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.  
Wear resistant gloves (consult your safety equipment supplier).
- Hygiene measures : Wash hands before breaks and at the end of workday.  
When using do not eat or drink.  
When using do not smoke.

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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : viscous
- Physical state : liquid
- Colour : white
- Odour : mild, hydrocarbon-like
- Odour Threshold : No data available
- pH : ca. 3.7, Concentration: 10 g/l (20 °C)
- Melting point/freezing point : <5 °F / -15 °C  
No data available
- Boiling point/boiling range : 217 °F / 103 °C
- Flash point : > 212 °F / > 100 °C  
Method: Cleveland open cup
- Evaporation rate : < 1

<b>HERITAGE SYSTEMS, INC.</b>		Page: 7
<b>SAFETY DATA SHEET</b>		Revision Date: 05/23/2015
		Print Date: 6/29/2015
		SDS Number: R0557329
<b>HSI 970</b>		Version: 1.2
657253		

Flammability (solid, gas) :  
No data available

Flammability (liquids) : Static Accumulating liquid

Flammability (liquids)  
Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : 23.3 hPa (20 °C)  
Method: ASTM D 2879-86

Relative vapour density : No data available

Relative density : 1.03 - 1.04

Density : Approximate 1.03 g/cm<sup>3</sup>

Solubility(ies)  
Water solubility : soluble

Solubility in other solvents : No data available

Partition coefficient: n-  
octanol/water : No data available

Thermal decomposition : No data available

Viscosity  
Viscosity, dynamic : > 7 mPa.s (40 °C)

Viscosity, kinematic : > 20.5 mm<sup>2</sup>/s (40 °C)

Oxidizing properties : No data available

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## SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous  
reactions : Product will not undergo hazardous polymerization.

Conditions to avoid : Heat, flames and sparks.

<b>HERITAGE SYSTEMS, INC.</b>		Page: 8
<b>SAFETY DATA SHEET</b>		Revision Date: 05/23/2015
		Print Date: 6/29/2015
		SDS Number: R0557329
<b>HSI 970</b>		Version: 1.2
657253		

Incompatible materials : aluminum  
Copper  
Copper alloys  
Strong acids  
Strong bases  
Strong oxidizing agents  
strong reducing agents

Hazardous decomposition products : carbon dioxide and carbon monoxide  
Hydrocarbons  
Nitrogen oxides (NOx)

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## SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation  
Skin contact  
Eye Contact  
Ingestion

### Acute toxicity

Not classified based on available information.

#### Components:

##### ALIPHATIC HYDROCARBON:

Acute oral toxicity : LD 50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC 50 (Rat, male and female): > 5.28 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: OECD Test Guideline 403  
Assessment: No adverse effect has been observed in acute inhalation toxicity tests.

Acute dermal toxicity : LD 50 (Rabbit): > 2,000 mg/kg  
Assessment: No adverse effect has been observed in acute dermal toxicity tests.

##### ALCOHOL ALKOXYLATES:

Acute oral toxicity : LD 50 (Rat): 1,380 mg/kg

### Skin corrosion/irritation

Causes skin irritation.

#### Product:

Result: Possibly irritating to skin

Result: Repeated exposure may cause skin dryness or cracking.

#### Components:



<b>HERITAGE SYSTEMS, INC.</b>		Page: 9
<b>SAFETY DATA SHEET</b>		Revision Date: 05/23/2015
		Print Date: 6/29/2015
		SDS Number: R0557329
<b>HSI 970</b>		Version: 1.2
657253		

**ALIPHATIC HYDROCARBON:**

Result: Irritating to skin

**ALCOHOL ALKOXYLATES:**

Result: Irritating to skin

**Serious eye damage/eye irritation**

Not classified based on available information.

**Product:**

Result: Possibly irritating to eyes

Remarks: Unlikely to cause eye irritation or injury.

**Components:**

**ALIPHATIC HYDROCARBON:**

Result: Mildly irritating to eyes

**ALCOHOL ALKOXYLATES:**

Result: Risk of serious damage to eyes.

**Respiratory or skin sensitisation**

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

**Germ cell mutagenicity**

Not classified based on available information.

**Carcinogenicity**

Not classified based on available information.

**Reproductive toxicity**

Not classified based on available information.

**STOT - single exposure**

May cause drowsiness or dizziness.

**Components:**

**ALIPHATIC HYDROCARBON:**

Assessment: May cause drowsiness or dizziness.

**STOT - repeated exposure**

Not classified based on available information.

**Aspiration toxicity**

Not classified based on available information.

**Further information**

**Product:**

Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting., Concentrations substantially above the TLV value may cause narcotic effects., Solvents may degrease the skin.

**Carcinogenicity:**

**IARC**

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA**

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential

<b>HERITAGE SYSTEMS, INC.</b>		Page: 10
<b>SAFETY DATA SHEET</b>		Revision Date: 05/23/2015
		Print Date: 6/29/2015
		SDS Number: R0557329
<b>HSI 970</b>		Version: 1.2
657253		

carcinogen by OSHA.

**NTP**

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Product:**

Toxicity to fish : LC 50 (Pimephales promelas (fathead minnow)): 11 mg/l  
Exposure time: 48 h

Toxicity to daphnia and other aquatic invertebrates : LC 50 (Water flea (Ceriodaphnia dubia)): 1.75 mg/l  
Exposure time: 48 h

**Components:**

**ALIPHATIC HYDROCARBON:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 2 - 5 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Test substance: WAF  
Method: OECD Test Guideline 203  
Remarks: Information given is based on data obtained from similar substances.

Toxicity to daphnia and other aquatic invertebrates : EL50 (Water flea (Daphnia magna)): 1.4 mg/l  
Exposure time: 48 h  
Test Type: static test  
Test substance: WAF  
Method: OECD Test Guideline 202  
Remarks: Information given is based on data obtained from similar substances.

Toxicity to algae : EL50 (Pseudokirchneriella subcapitata (green algae)): > 1 - 3 mg/l  
Exposure time: 72 h  
Test Type: static test  
Test substance: WAF  
Method: OECD Test Guideline 201  
Remarks: Information given is based on data obtained from similar substances.

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEL (Water flea (Daphnia magna)): 0.48 mg/l  
Exposure time: 21 d  
Test Type: semi-static test  
Test substance: WAF  
Method: OECD Test Guideline 211

<b>HERITAGE SYSTEMS, INC.</b>		Page: 11
<b>SAFETY DATA SHEET</b>		Revision Date: 05/23/2015
		Print Date: 6/29/2015
		SDS Number: R0557329
<b>HSI 970</b>		Version: 1.2
657253		

Remarks: Information given is based on data obtained from similar substances.

**ALCOHOL ALKOXYLATES:**

- Toxicity to fish : LC50 (Fish): > 1 - 10 mg/l  
Exposure time: 96 h  
Test Type: static test
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): > 1 - 10 mg/l  
Exposure time: 48 h  
Test Type: static test
- Toxicity to algae : ErC50 (Green algae): > 0.1 - 1.0 mg/l  
Exposure time: 96 h  
Test Type: static test
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC10 (Daphnia (water flea)): 0.17 mg/l  
Exposure time: 21 d

**Ecotoxicology Assessment**

- Acute aquatic toxicity : Very toxic to aquatic life.

**Persistence and degradability**

**Product:**

- Biochemical Oxygen Demand (BOD) : Biochemical oxygen demand  
383,000 mg/l
- Chemical Oxygen Demand (COD) : 1,930,000 mg/l  
Method: Chemical oxygen demand

**Components:**

**ALIPHATIC HYDROCARBON:**

- Biodegradability : Result: Inherently biodegradable  
Biodegradation: 58.6 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F

**ALCOHOL ALKOXYLATES:**

- Biodegradability : Result: Readily biodegradable

**Bioaccumulative potential**

**Components:**

No data available

**Mobility in soil**

**Components:**

No data available

**Other adverse effects**

No data available

<b>HERITAGE SYSTEMS, INC.</b>		Page: 12
<b>SAFETY DATA SHEET</b>		Revision Date: 05/23/2015
		Print Date: 6/29/2015
		SDS Number: R0557329
<b>HSI 970</b>		Version: 1.2
657253		

**Product:**

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Toxic to aquatic life with long lasting effects.

**Components:**

**SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods**

General advice : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.  
  
Dispose of in accordance with all applicable local, state and federal regulations.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.  
Do not re-use empty containers.

**SECTION 14. TRANSPORT INFORMATION**

**International transport regulations**

**REGULATION**

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT / LTD. QTY.

**U.S. DOT - ROAD**

Not dangerous goods

**U.S. DOT - RAIL**

Not dangerous goods

**U.S. DOT - INLAND WATERWAYS**

Not dangerous goods

**TRANSPORT CANADA - ROAD**

Not dangerous goods

**TRANSPORT CANADA - RAIL**

<b>HERITAGE SYSTEMS, INC.</b>		Page: 13
<b>SAFETY DATA SHEET</b>		Revision Date: 05/23/2015
		Print Date: 6/29/2015
		SDS Number: R0557329
<b>HSI 970</b>		Version: 1.2
657253		

Not dangerous goods

**TRANSPORT CANADA - INLAND WATERWAYS**

Not dangerous goods

**INTERNATIONAL MARITIME DANGEROUS GOODS**

Not dangerous goods

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO**

Not dangerous goods

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER**

Not dangerous goods

**MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES**

Not dangerous goods

\*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

Marine pollutant	yes
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Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

**SECTION 15. REGULATORY INFORMATION**

**SARA 311/312 Hazards** : Acute Health Hazard

**SARA 313 Component(s)SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**California Prop 65** Proposition 65 warnings are not required for this product based on the results of a risk assessment.

**The components of this product are reported in the following inventories:**

TSCA : On TSCA Inventory

<b>HERITAGE SYSTEMS, INC.</b>		Page: 14
<b>SAFETY DATA SHEET</b>		Revision Date: 05/23/2015
		Print Date: 6/29/2015
		SDS Number: R0557329
<b>HSI 970</b>		Version: 1.2
657253		

- DSL : This product contains one or more components that are not on the Canadian DSL and have annual quantity limits.
- AUSTR : On the inventory, or in compliance with the inventory
- ENCS : On the inventory, or in compliance with the inventory
- KECL : On the inventory, or in compliance with the inventory
- PHIL : On the inventory, or in compliance with the inventory
- IECSC : On the inventory, or in compliance with the inventory

#### Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECL (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

#### Registration: Trade Secret

Chemical Name	Identification number
ALIPHATIC HYDROCARBON	254504001-5164
ALCOHOL ALKOXYLATES	254504001-5466

## SECTION 16. OTHER INFORMATION

#### Further information

Revision Date: 05/23/2015

NFPA:	HMIS III:						
<p>The diagram is a diamond shape divided into four quadrants. The top quadrant is red and labeled 'Flammability' with a '1'. The right quadrant is blue and labeled 'Instability' with a '0'. The bottom quadrant is white and labeled 'Special hazard.' with a '0'. The left quadrant is yellow and labeled 'Health' with a '0'. The number '0' is also present in the center of the diamond.</p>	<table border="1"> <tbody> <tr> <td><b>HEALTH</b></td> <td><b>1</b></td> </tr> <tr> <td><b>FLAMMABILITY</b></td> <td><b>1</b></td> </tr> <tr> <td><b>PHYSICAL HAZARD</b></td> <td><b>0</b></td> </tr> </tbody> </table> <p>0 = not significant, 1 = Slight, 2 = Moderate, 3 = High 4 = Extreme, * = Chronic</p>	<b>HEALTH</b>	<b>1</b>	<b>FLAMMABILITY</b>	<b>1</b>	<b>PHYSICAL HAZARD</b>	<b>0</b>
<b>HEALTH</b>	<b>1</b>						
<b>FLAMMABILITY</b>	<b>1</b>						
<b>PHYSICAL HAZARD</b>	<b>0</b>						

#### NFPA Flammable and Combustible Liquids Classification

Combustible Liquid Class IIIB

Full text of H-Statements referred to under sections 2 and 3.

<b>HERITAGE SYSTEMS, INC.</b>		Page: 15
<b>SAFETY DATA SHEET</b>		Revision Date: 05/23/2015
		Print Date: 6/29/2015
		SDS Number: R0557329
<b>HSI 970</b>		Version: 1.2
657253		

H227	Combustible liquid.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H336	May cause drowsiness or dizziness.

#### Sources of key data used to compile the Safety Data Sheet

Key literature references and sources of data

SOLENIS Internal data

SOLENIS internal data including own and sponsored test reports

The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This MSDS has been prepared by the Solenis Environmental Health and Safety Department.

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet :

ACGIH : American Conference of Industrial Hygienists

BEI : Biological Exposure Index

CAS : Chemical Abstracts Service (Division of the American Chemical Society).

CMR : Carcinogenic, Mutagenic or Toxic for Reproduction

FG : Food grade

GHS : Globally Harmonized System of Classification and Labeling of Chemicals.

H-statement : Hazard Statement

IATA : International Air Transport Association.

IATA-DGR : Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO : International Civil Aviation Organization

ICAO-TI (ICAO) : Technical Instructions by the "International Civil Aviation Organization"

IMDG : International Maritime Code for Dangerous Goods

ISO : International Organization for Standardization

logPow : octanol-water partition coefficient

LCxx : Lethal Concentration, for xx percent of test population

LDxx : Lethal Dose, for xx percent of test population.

ICxx : Inhibitory Concentration for xx of a substance

Ecxx : Effective Concentration of xx

N.O.S.: Not Otherwise Specified

OECD : Organization for Economic Co-operation and Development

OEL : Occupational Exposure Limit

P-Statement : Precautionary Statement

PBT : Persistent , Bioaccumulative and Toxic

PPE : Personal Protective Equipment

STEL : Short-term exposure limit

STOT : Specific Target Organ Toxicity

TLV : Threshold Limit Value

TWA : Time-weighted average

vPvB : Very Persistent and Very Bioaccumulative

WEL : Workplace Exposure Level

<b>HERITAGE SYSTEMS, INC.</b>		Page: 16
<b>SAFETY DATA SHEET</b>		Revision Date: 05/23/2015
		Print Date: 6/29/2015
		SDS Number: R0557329
<b>HSI 970</b>		Version: 1.2
657253		

CERCLA : Comprehensive Environmental Response, Compensation, and Liability Act  
 DOT : Department of Transportation  
 FIFRA : Federal Insecticide, Fungicide, and Rodenticide Act  
 HMIRC : Hazardous Materials Information Review Commission  
 HMIS : Hazardous Materials Identification System  
 NFPA : National Fire Protection Association  
 NIOSH : National Institute for Occupational Safety and Health  
 OSHA : Occupational Safety and Health Administration  
 PMRA : Health Canada Pest Management Regulatory Agency  
 RTK : Right to Know  
 WHMIS : Workplace Hazardous Materials Information System