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#### **SAFETY DATA SHEET**

# HELENA LABORATORIES 1530 Lindbergh Dr. / P.O. Box 752 Beaumont, TX 77704-0752 USA Toll Free 800-231-5663

DATE PREPARED: 3/8/2018

**REVISION: 4** 

#### 1. IDENTIFICATION

Product number: 2300

Product identifier used on the label: SPIFE 4000 IFE Kit

Other means of identification:

Component Name	Component Number
552398, SPIFE 4000 IFE Gel Kit	
SPIFE 4000 IFE Gel	552486
Acid Violet Stain	551758
Citric Acid Destain	551959
Tris Buffered Saline	551715
Destain Additive	552538
552440, SPIFE 4000 IFE Antisera Kit	
SPIFE 4000 IFE Protein Fixative	552441
Antiserum to Human IgG	552439
Antiserum to Human IgA	552437
Antiserum to Human IgM	552438
Antiserum to Human Kappa	552436
Antiserum to Human Lambda	552435

**Recommended use of the chemical and restrictions in use:** For In-Vitro Diagnostic use.

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party:

Helena Laboratories 1530 Lindbergh Dr. / P.O. Box 752 Beaumont, TX 77704-0752

Tel: (409) 842-3714

USE Toll Free 800-231-5663

## **Emergency phone number:**

(409) 842-3714

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#### 2. HAZARD IDENTIFICATION

## Classification of the chemical:

Component Name	GHS Classification	Hazard Statement
552398, SPIFE 4000 IFE Gel Kit		
SPIFE 4000 IFE Gel	Not Classified	Harmful if swallowed
Citric Acid Destain (Powder)	Eye/Skin (Category 2)	Irritant
Destain Additive	Eye/Skin (Category 2)	Irritant
552440, SPIFE 4000 IFE Antisera Kit		
SPIFE 4000 IFE Protein Fixative	Eye/Skin (Category 2)	Corrosive

NOTE: All other components present no significant physical or chemical hazard.

NOTE: Citric Acid Destain Solution is not hazardous (< 1%) when dissolved following instructions on label.

### **Label elements:**

SPIFE 4000 IFE Gel Kit: Signal word: Warning

SPIFE 4000 IFE Antisera Kit: SPIFE 4000 IFE Protein Fixative Signal word: Danger

## **Precautionary statements:**

Skin: May cause skin irritation

Eye: May cause eye irritation

Inhalation: May be harmful if inhaled

Ingestion: May be harmful if swallowed

Wear protective gloves/protective clothing/eye and face protection.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component Name	Chemical Name	CAS#	Concentration
SPIFE 4000 IFE Gel	Sodium Barbital	144-02-5	1.3%
Citric Acid Destain	Citric Acid	77-92-9	100%
Destain Additive	Propylene Glycol	57-55-6	25-30%
	Octylphenoxypolyethoxyethanol	9036-19-5	5-10%
SPIFE 4000 IFE Protein	5-Sulfosalicylic Acid	5965-83-3	1-5%
Fixative	Trichloroacetic Acid	76-03-9	

NOTE: All other components present no significant physical or chemical hazard.

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#### 4. FIRST AID MEASURES

## Description of first aid measures:

**Inhalation**: Remove person to fresh air. If not breathing, give artificial respiration. Consult a

physician.

**Skin contact**: Immediately wash off with soap and plenty of water. If skin irritation occurs, get

medical attention. Take off contaminated clothing.

**Eye contact:** Immediately flush eyes with plenty of water for at least 15 minutes. Consult a

physician.

**Ingestion:** Do not induce vomiting. Rinse mouth with water. Consult a physician.

### 5. FIREFIGHTING MEASURES

**Extinguishing media:** Water spray, dry chemical, carbon dioxide, or alcohol resistant foam.

Special hazards arising from the substance or mixture: Carbon dioxides, sulfur.

**Special protective equipment and precautions for firefighters:** Wear proper protective equipment and self contained breathing apparatus for firefighting if necessary.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment, and emergency procedures:** Wear personal protective equipment. Evacuate personnel to safe areas. Soak up with inert absorbent material and transfer to container for proper disposal.

**Methods and materials for containment and cleaning up:** Do not allow material to enter drains/surface water/ground water. Ventilate the area.

#### 7. HANDLING AND STORAGE

**Precautions for safe handling:** Wear personal protective equipment; avoid contact with skin and eyes.

**Conditions for safe storage, including any incompatibilities:** Keep containers tightly closed and store in a cool dry place.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## **Exposure limits (AGGIH TLV & OSHA PEL):**

Chemical Name	AGGIH TLV	OSHA PEL
Sodium Barbital	None listed	None listed
Citric Acid	None listed	None listed
Propylene Glycol	100 ppm	None known
Octylphenoxypolyethoxyethanol	None listed	10 mg/m3
5-Sulfosalicylic Acid	None listed	None listed
Trichloroacetic Acid	1 ppm	None listed

## **Exposure controls:**

**Respiratory protection:** Use NOISH approved respirators.

**Skin protection:** Wear appropriate protective gloves and suitable protective clothing.

**Eye protection:** Wear appropriate safety glasses or goggles.

**Hygiene measures:** Handle in accordance with good industrial hygiene and safety practice.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

SPIFE IFE 4000 Gel

**Appearance:** Solid (gel)

Odor: None

**Odor threshold:** No data available

**pH**: 8-9

Melting point/Freezing point: No data available

Initial boiling point and range: No data available

Flash point: No data available

**Evaporation rate:** No data available

Flammability (solid, gas): No data available

Upper/lower flammability or explosive limits: No data available

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Vapor pressure: No data available

**Relative density:** No data available

**Solubility in water:** No data available

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

Auto-ignition temperature: No data available

**Decomposition temperature:** No data available

Viscosity: No data available

**Citric Acid Destain (Powder)** 

**Appearance:** White crystalline

**Odor:** None

**Odor threshold:** No data available

**pH:** 1.8 at 50 g/L

Melting point/Freezing point: 153-159°C

Initial boiling point and range: No data available

Flash point: No data available

**Evaporation rate:** No data available

Flammability (solid, gas): No data available

**Upper/lower flammability or explosive limits:** No data available

Vapor pressure: No data available

**Relative density:** No data available

Solubility in water: Soluble

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

Auto-ignition temperature: No data available

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**Decomposition temperature:** No data available

Viscosity: No data available

**Destain Additive** 

Appearance: Liquid

**Odor:** None

Odor threshold: No data available

**pH:** 7.0

Melting point/Freezing point: No data available

Initial boiling point and range: > 100°C

Flash point: No data available

**Evaporation rate:** No data available

Flammability (solid, gas): No data available

**Upper/lower flammability or explosive limits:** No data available

Vapor pressure: No data available

Relative density: No data available

**Solubility in water:** Complete

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

Auto-ignition temperature: No data available

**Decomposition temperature:** No data available

Viscosity: No data available

**SPIFE 4000 IFE Protein Fixative** 

Appearance: Liquid

**Odor:** None

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**Odor threshold:** No data available

**pH**: < 2

**Melting point/Freezing point:** No data available

Initial boiling point and range: No data available

Flash point: No data available

**Evaporation rate:** No data available

Flammability (solid, gas): No data available

**Upper/lower flammability or explosive limits:** No data available

**Vapor pressure:** No data available

Relative density: No data available

Solubility in water: Soluble

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

Auto-ignition temperature: No data available

**Decomposition temperature:** No data available

**Viscosity:** No data available

#### 10. STABILITY AND REACTIVITY

Reactivity: Not normally reactive

**Chemical stability:** Stable under normal condition

Possibility of hazard reaction: Hazardous polymerization does not occur

**Conditions to avoid:** Avoid contact with incompatible materials and heat.

**Incompatible materials:** Oxidizing agents, strong bases

**Hazard decomposition products:** Hazard decomposition products formed under fire conditions:

Carbon oxides

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### 11. TOXICOLOGICAL INFORMATION

### SPIFE 4000 IFE Gel

The calculated ATE value: LD50 oral = 50000 mg/kg

Chemical Name	LD 50 (oral, rat)
Sodium Barbital	600 mg/kg

Carcinogenicity: No components are listed as carcinogens by AGGIH, IARC, OSHA or NTP.

Skin: May cause skin irritation

Eye: May cause eye irritation

**Ingestion:** Harmful if swallowed

**Other important toxicological hazards:** To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

### **Citric Acid Destain (Powder)**

LD Oral rat = 5400 mg/kg

NOTE: Solution is not hazardous (< 1%) when dissolved following instructions on label.

**Carcinogenicity:** Not listed as carcinogens by AGGIH, IARC, OSHA or NTP.

## Potential health effects:

**Inhalation:** May be harmful if inhaled

**Ingestion:** May be harmful if swallowed

Skin: May cause skin irritation

Eye: May cause eye irritation

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### **Destain Additive**

## LD Oral rat = 5000 mg/kg

**Carcinogenicity:** Not listed as carcinogens by AGGIH, IARC, OSHA or NTP.

#### Potential health effects:

Inhalation: May be harmful if inhaled

**Ingestion:** May be harmful if swallowed

Skin: May cause skin irritation

Eye: May cause eye irritation

**Other important toxicological hazards:** To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

### **SPIFE 4000 IFE Protein Fixative**

The calculated ATE value: LD50 oral = 71428 mg/kg

Chemical Name	LD 50 (oral, rat)
5-Sulfosalicylic Acid	2450 mg/kg
Trichloroacetic Acid	3320 mg/kg

**Carcinogenicity:** No components are listed as carcinogens by AGGIH, IARC, OSHA or NTP.

#### Potential health effects:

**Eye:** May cause eye irritation and possible burns

Skin: May cause skin irritation and possible burns

**Inhalation:** May be harmful if inhaled

**Ingestion:** May be harmful if swallowed

**Other important toxicological hazards:** To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

#### 12. ECOLOGICAL INFORMATION

**Eco-toxicity:** No data available

**SDS:** 2300 Page 10 of 11 Persistence and degradability: No data available Bio-accumulative potential: No data available Mobility in soil: No data available Other adverse effects: No data available 13. DISPOSAL CONSIDERATION Observe all federal, state and local regulations. 14. TRANSPORT INFORMATION DOT (US): SPIFE 4000 IFE Gel Kit - Not regulated SPIFE 4000 IFE Antisera Kit - Regulated as Hazardous Material during transportation. **UN number: UN proper shipping name: Transport hazard class:** Packing group: 15. REGULATORY INFORMATION **US State Right to Know Laws:** California Proposition 65: This product does not contain a chemical known to the State of California

to cause cancer, birth defects or other reproductive harm.

Other US State "Right to Know" List: The following chemicals are listed by individual States:

Citric Acid (PA, NJ)

Propylene Glycol (PA, NJ)

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## **16. OTHER INFORMATION**

**SDS Creation date:** 10/16/2013

Revision #: 4

## Disclaimer

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. Helena Laboratories shall not be held liable for any damage resulting from handling or from contact with the above product.