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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**

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DATE PREPARED: 8/28/2017  
REVISION: 1

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**1. IDENTIFICATION**

**Product Number:** 2320

**Product identifier used on the label:** SPIFE 4000 Alkaline Hemoglobin Kit

**Other means of identification:**

<b>Component Name</b>	<b>Component Number</b>
SPIFE 4000 Alkaline Hemoglobin Gel	552530
Hemolysate Reagent	551965
Acid Blue Stain	551151
Citric Acid Destain	551959
Destain Additive	552538

**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
Citric Acid Destain	Eye/Skin (Category 2)	Irritant
Destain Additive	Eye/Skin (Category 2)	Irritant

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

**Label elements:**

**Signal word:** Warning

**Precautionary statements:**

**Skin:** May cause skin irritation.

**Eye:** May cause eye irritation.

**Inhalation:** May be harmful if inhale.

**Ingestion:** Harmful if swallowed.

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

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Component Name	Chemical Name	CAS #	Concentration
Hemolysate Reagent	Potassium Cyanide	151-50-8	< 0.1%
Citric Acid Destain	Citric Acid	7792-9	100%
Destain Additive	Propylene Glycol	57-55-6	25-30%
	Octylphenoxypolyethoxyethanol	9036-19-5	5-10%

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

**4. FIRST AID MEASURES****Description of first aid measures:**

**Inhalation:** Move person into 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.

**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.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Chemical Name	AGGIH TLV	OSHA PEL
Citric Acid	None listed	None listed
Propylene Glycol	100 ppm	None known
Octylphenoxyethoxyethanol	None listed	10 mg/m <sup>3</sup>

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

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**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.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

Citric Acid Destain

**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

**Decomposition temperature:** No data available

**Viscosity:** No data available

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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

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## 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.

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**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

### Information on likely routes of exposure:

Citric Acid Destain

**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

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.

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**12. ECOLOGICAL INFORMATION**

**Eco-toxicity:** No data available

**Persistence and degradability:** No data available

**Bio-accumulative potential:** No data available

**Mobility in soil:** No data available

**Other adverse effects:** No data available

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**13. DISPOSAL CONSIDERATION**

Observe all federal, state and local regulations.

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**14. TRANSPORT INFORMATION**

**DOT (US):** Regulated as Hazardous Material during transportation.

**UN number:**

**UN proper shipping name:**

**Transport hazard class:**

**Packing group:**

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**15. REGULATORY INFORMATION**

**US State Right to Know Laws:**

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

Potassium Cyanide , Citric Acid (PA, NJ)

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**16. OTHER INFORMATION**

SDS Creation date: 8/28/2017

Revision #: 1

**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.