

## SAFETY DATA SHEET

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

DATE PREPARED: 3/13/2018

REVISION: 4

**1. IDENTIFICATION****Product number:** 3422, 3421, 3420, 3422U, 3421U, 3420U**Product identifier used on the label:** SPIFE Split Beta SPE-20, 40, 60 Samples**Other means of identification:**

Component Name	Component Number
SPIFE Split Beta SPE Gel Kit, 552564	
SPIFE Split Beta SPE-20, 40, 60 Gel	552506
Acid Blue Stain	551151
Citric Acid Destain	551959

**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

**2. HAZARD IDENTIFICATION****Classification of the chemical:**

Component Name	GHS Classification	Hazard Statement
SPIFE Split Beta SPE-Gel	Not Classified	Harmful if swallowed
Citric Acid Destain (Powder)	Eye/Skin (Category 2)	Irritant

---

**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:**

**Signal word:** Warning

**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 Split Beta SPE Gel	Sodium Barbital	144-02-5	1.3%
Citric Acid Destain	Citric Acid	77-92-9	100%

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

---

### 4. FIRST AID MEASURES

**Description of first aid measures:**

#### **SPIFE Split Beta SPE Gel**

**Inhalation:** Not applicable.

**Skin contact:** 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.

**Citric Acid Destain**

**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, Nitrogen Oxides.

**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:** Store all kit components as per specified instructions.

**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

---

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

**Exposure controls:**

**Respiratory protection:** Not required.

**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 Split Beta Gel

**Appearance:** Solid (gel)

**Odor:** None

**Odor threshold:** No data available

**pH:** No data available

**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

---

**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

**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, Nitrogen oxides.

---

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure:

The calculated ATE value:

SPIFE Split Beta Gel LD50 oral = 50000 mg/kg

Citric Acid Destain (Powder) LD50 oral = 5040 mg/kg

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

See the following table for individual ingredient acute toxicity data:

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

### 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

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

**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

**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):** Not applicable

**UN number:** Not applicable

**UN proper shipping name:** Not applicable

**Transport hazard class:** Not applicable

**Packing group:** Not applicable

---

**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)

---

**16. OTHER INFORMATION**

**SDS Creation date:** 5/7/2014

**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.