

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: 3

1. IDENTIFICATION

Product number: 2310

Product identifier used on the label: SPIFE 4000 Split Beta SPE Kit

Other means of identification:

| Component Name | Component Number |
|-------------------------------|------------------|
| SPIFE 4000 Split Beta SPE Gel | 552548 |
| 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

2. HAZARD IDENTIFICATION

Classification of the chemical:

| Component Name | GHS Classification | Hazard Statement |
|-------------------------------|-----------------------|----------------------|
| SPIFE 4000 Split Beta SPE Gel | Not Classified | Harmful if swallowed |
| Citric Acid Destain (Powder) | 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:

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 4000 Split Beta SPE 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% |

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

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.

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/m ³ |

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

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 4000 Split Beta SPE 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

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

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

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

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

SPIFE 4000 Split Beta SPE 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

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.

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 dangerous goods

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)

16. OTHER INFORMATION

SDS Creation date: 7/11/2014

Revision #: 3

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.