

SAFETY DATA SHEET

HELENA LABORATORIES
1530 Lindbergh Dr.
Beaumont, TX 77707
USA Toll Free 800-231-5663

DATE PREPARED: 2/1/2024
REVISION: 5

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.
Beaumont, TX 77707
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
Octylphenoxy polyethoxyethanol	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 #: 5

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.