
SAFETY DATA SHEET

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

DATE PREPARED: 3/31/2025

REVISION: 4

1. IDENTIFICATION**Product number: 2401****Product identifier used on the label: SPIFE Nexus Immunofix-6 Kit****Other means of identification:**

| Component Name | Component Number |
|---------------------------------------|-------------------------|
| SPIFE Nexus IFE-6 Gel Kit | 552694 |
| SPIFE IFE-6 Gel | 552556 |
| SPIFE Nexus Pipette Wash | 552729 |
| SPIFE Nexus Violet | 552783 |
| Citric Acid Destain | 551959 |
| Clear Wash | 552666 |
| SPIFE Nexus IFE-6 Antisera Kit | 552703 or 552737 |
| SPIFE Nexus IFE Protein Fixative | 552709 or 552738 |
| Antiserum to Human IgG | 552704 or 552739 |
| Antiserum to Human IgA | 552705 or 552740 |
| Antiserum to Human IgM | 552706 or 552741 |
| Antiserum to Human Kappa | 552707 or 552742 |
| Antiserum to Human Lambda | 552708 or 552743 |

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
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Emergency phone number:
(409) 842-3714

2. HAZARD IDENTIFICATION

Classification of the chemical:

| Component Name | GHS Classification | Hazard Statement |
|---------------------------------------|-----------------------|----------------------|
| SPIFE Nexus IFE-6 Gel Kit | | |
| SPIFE IFE-6 Gel | Not Classified | Harmful if swallowed |
| SPIFE Nexus Pipette Wash | Eye/Skin (Category 2) | Corrosive |
| SPIFE Nexus Violet | Eye/Skin (Category 2) | Irritant |
| Citric Acid Destain | Eye/Skin (Category 2) | Irritant |
| SPIFE Nexus IFE-6 Antisera Kit | | |
| SPIFE IFE-6 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: **Signal word:** Danger SPIFE Nexus IFE-6 Gel Kit

Signal word: Danger SPIFE Nexus IFE-6 Antisera Kit

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 IFE-6 Gel | Sodium Barbital | 144-02-5 | 1.3% |
| SPIFE Nexus Pipette Wash | Sodium Hydroxide | 1310-73-2 | <5% |
| SPIFE Nexus Violet | Acetic Acid | 64-19-7 | 10% |
| Citric Acid Destain | Citric Acid | 77-92-9 | <1% |
| SPIFE Nexus IFE Protein Fixative | 5-Sulfosalicylic Acid | 5965-83-3 | < 5% |
| | Trichloroacetic Acid | 76-03-9 | < 10% |
| | Guanidine Hydrochloride | 50-01-1 | < 3% |

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

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: 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 |
| Sodium Hydroxide | None listed | None listed |
| Citric Acid | None listed | None listed |
| 5-Sulfosalicylic Acid | None listed | None listed |
| Trichloroacetic Acid | 1 ppm | 1 ppm |
| Guanidine Hydrochloride | None listed | None listed |

Exposure controls:

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-6 Gel

Appearance: Solid (gel)

Odor: None

Odor threshold: No data available

pH: Not applicable

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

SPIFE Nexus Pipette Wash

Appearance: Liquid

Odor: None

Odor threshold: No data available

pH: > 11.5

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

SPIFE Nexus Violet

Appearance: Dark violet liquid

Odor: Vinegar

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)

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

Appearance: White crystalline powder

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

SPIFE Nexus Protein Fixative

Appearance: Liquid

Odor: None

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

11. TOXICOLOGICAL INFORMATION

The calculated ATE value:

SPIFE IFE-6 Gel LD 50 oral = 50000 mg/kg

SPIFE Nexus IFE Protein Fixative LD 50 oral = 58823 mg/kg

SPIFE Nexus Pipette Wash – No data available

See the following table for individual ingredient acute toxicity data:

| Chemical Name | LD 50 (oral, rat) |
|-----------------------|-------------------|
| Sodium Barbital | 600 mg/kg |
| 5-Sulfosalicylic Acid | 1850 mg/kg |
| Trichloroacetic Acid | 3320 mg/kg |

Potential health effects:

Skin: May cause skin irritation

Eye: May cause eye irritation

Inhalation: May be harmful if inhaled

Ingestion: May be harmful if swallowed

Carcinogenicity: Trichloroacetic Acid is listed as carcinogen by AGGIH, IARC, OSHA.

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): Regulated as hazardous material during transportation.

UN proper shipping name:

Transport hazard class:

Packing group:

15. REGULATORY INFORMATION**US State Right to Know Laws:****California Proposition 65:**

SPIFE IFE-6 Gel: This product can expose you to Barbiturates, which is known to the State of California to cause developmental harm.

SPIFE Nexus IFE-6 Protein Fixative: This product can expose you to Trichloroacetic Acid, which is known to the State of California to cause cancer.

For more information, go to www.p65warnings.ca.gov.

16. OTHER INFORMATION

SDS Creation date: 9/29/2021

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.