

SAFETY DATA SHEET

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

DATE PREPARED: 11/28/2023

REVISION: 2

1. IDENTIFICATION**Product number:** 2409**Product identifier used on the label:** SPIFE Nexus Immunofix-9 Kit**Other means of identification:**

Component Name	Component Number
SPIFE Nexus IFE-9 Gel Kit	552695
SPIFE IFE-9 Gel	552537
SPIFE Nexus Pipette Wash	552729
Acid Violet Liquid Stain	552683
Citric Acid Destain	551959
Clear Wash	552666
SPIFE Nexus IFE Antisera 9/15 Kit	552697 or 552744
SPIFE Nexus IFE Protein Fixative	552709 or 552738
SPIFE Nexus IFE 9/15 Antiserum to Human IgG	552698 or 552745
SPIFE Nexus IFE 9/15 Antiserum to Human IgA	552699 or 552746
SPIFE Nexus IFE 9/15 Antiserum to Human IgM	552700 or 552747
SPIFE Nexus IFE 9/15 Antiserum to Human Kappa	552701 or 552748
SPIFE Nexus IFE 9/15 Antiserum to Human Lambda	552702 or 552749

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:**

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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-9 Gel Kit		
SPIFE IFE-9 Gel	Not Classified	Harmful if swallowed
SPIFE Nexus Pipette Wash	Eye/Skin (Category 2)	Corrosive
Acid Violet Liquid Stain	Eye/Skin (Category 2)	Irritant
Citric Acid Destain	Eye/Skin (Category 2)	Irritant
SPIFE Nexus IFE 9/15 Antisera Kit		
SPIFE IFE 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-9 Gel Kit

Signal word: Danger SPIFE Nexus IFE-9/15 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-9 Gel	Sodium Barbital	144-02-5	1.3%
SPIFE Nexus Pipette Wash	Sodium Hydroxide	1310-73-2	<5%
Acid Violet Liquid Stain	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	None listed	None listed
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-9 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

Acid Violet Liquid Stain

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 IFE 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-9 Gel LD 50 oral = 50000 mg/kg

Citric Acid Destain LD 50 oral = 5040 mg/kg

SPIFE Nexus IFE Protein Fixative LD 50 oral = 76923 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 Barbitol	600 mg/kg
Citric Acid	5040 mg/kg
5-Sulfosalicylic Acid	2450 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: 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): 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: This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

16. OTHER INFORMATION

SDS Creation date: 9/29/2021

Revision #: 2

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.