
SAFETY DATA SHEET

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

DATE PREPARED: 2/1/2024
REVISION: 3

1. IDENTIFICATION

Product Number: 2418

Product identifier used on the label: SPIFE Nexus Acid Hemoglobin Kit

Other means of identification:

Component Name	Component Number
SPIFE Nexus Acid Hemoglobin Gel Kit	552734
SPIFE Acid Hemoglobin Gel	552605
Hemolysate Reagent	551965
SPIFE Nexus Acid Blue Liquid Stain	552684
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.
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
Citric Acid Destain	Eye/Skin (Category 2)	Irritant
Hemolysate Reagent	Oral/Dermal (Category 4)	Harmful
SPIFE Nexus Acid Blue Liquid Stain	Eye/Skin (Category)	Irritant

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

Label elements:

Signal word: Warning

Precautionary statements:

Skin: May cause skin irritation.

Eye: May cause eye irritation.

Inhalation: May be harmful if inhale.

Ingestion: Harmful if swallowed.

Wear protective gloves, protective clothing, eye and face protection.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component Name	Chemical Name	CAS #	Concentration
SPIFE Acid Hemoglobin Gel	Thimerosal	54-65-8	< 0.1%
Hemolysate Reagent	Potassium Cyanide	151-50-8	< 0.1%
Citric Acid Destain	Citric Acid	7792-9	100%
SPIFE Nexus Acid Blue Liquid Stain	Acetic Acid	64-19-7	5%

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

4. FIRST AID MEASURES

Description of first aid measures:

Inhalation: Move person into 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 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: 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
Citric Acid	None listed	None listed
Potassium Cyanide	5 mg/m ³	5 mg/m ³
Acetic Acid	15 ppm	10 ppm

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

Hemolysate Reagent

Appearance: Clear, colorless liquid

Odor: No data available

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: Fully 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 Blue Liquid Stain

Appearance: Dark blue 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: 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 (Solid)

NOTE: Solution is not hazardous (1%) when dissolved following instruction on label

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

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Hemolysate Reagent

LD Oral rat = 723 mg/kg (ATE, Category 4)

Potential health effects:

Inhalation: May be fatal if inhaled. May cause respiratory tract irritation

Ingestion: May be fatal if swallowed

Skin: May be fatal if absorbed through skin. May cause skin irritation

Eye: May cause eye irritation

Carcinogenicity: Not 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.

Information on likely routes of exposure:

Acid Blue Liquid Stain

LD Oral rat = 66666 mg/kg

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

Potential health effects:

Ingestion: Harmful if swallowed

Skin: May cause skin irritation

Eye: May cause eye irritation

Citric Acid Destain

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

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 number:

UN proper shipping name:

Transport hazard class:

Packing group:

15. REGULATORY INFORMATION

US State Right to Know Laws:

California Proposition 65: This product contains a chemical known to the State of California to cause cancer, birth defects or other reproductive harm: Thimerosal (SPIFE Acid Hemoglobin Gel).

16. OTHER INFORMATION

SDS Creation date: 2/16/2023

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.