

HELENA LABORATORIES

KIT SAFETY DATA SHEET

Kit Product Name: SPIFE Acid Hemoglobin Kit

Kit Catalog Number(s): 3418

DATE PREPARED: 7/30/2025

REVISION: 9

Kit Contents:

Component Name	Component Number
SPIFE Acid Hemoglobin Gel	552605
Hemolysate Reagent	551965
Acid Blue Stain	551151
Citric Acid Destain	551959

HELENA LABORATORIES**SAFETY DATA SHEET**

DATE PREPARED: 7/30/2025

REVISION: 1

1. IDENTIFICATION**Product number:** 552605**Product identifier used on the label:** SPIFE Acid Hemoglobin Gel**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
USA Toll Free 800-231-5663

Emergency phone number:(409) 842-3714

2. HAZARD IDENTIFICATION**GHS Classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)**

Not a Hazardous Substance or Mixture

GHS Label elements

No signal word, no hazard statement(s), no precautionary statement(s) require

Other HazardsNone known

3. COMPOSITION/INFORMATION ON INGREDIENTSThis product contains no hazardous chemicals at or above Threshold limits

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 should be used.

Special hazards: None known

Special protective equipment and precautions for fire-fighters: 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. 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 eye.

Conditions for safe storage, including any incompatibilities: Store gels as per specified instructions on label.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits (AGGIH TLV & OSHA PEL):

Contains no substances with occupational expose limit value.

Exposure controls

Respiratory protection: Not normally required

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 Acid Hemoglobin Gel

Appearance: Solid (gel)

Odor: None

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

10. STABILITY AND REACTIVITY

Reactivity: Not normally reactive

Chemical stability: Stable under normal conditions

Possibility of hazard reaction: None known

Conditions to avoid: Heat, Hot surfaces, Flames

Incompatible materials: No data available

Hazard decomposition products: No data available

11. TOXICOLOGICAL INFORMATION

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 carcinogen 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

Ecotoxicity: No data available

Persistence and degradability: No data available

Bioaccumulative 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 regulated

UN number:

UN proper shipping name:

Transport hazard class:

Packing group:

15. REGULATORY INFORMATION

US State Right to Know Laws:

California Proposition 65:

QuickGel Acid Hemoglobin Gel: This product contains a Thimerosal, which is know to the State of California to cause Developmental harm.

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

International regulations:

EU Reach: No information available.

16. OTHER INFORMATION**SDS Creation date:** 7/30/2025**Revision:** 1

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.

HELENA LABORATORIES**SAFETY DATA SHEET**

DATE PREPARED: 7/23/2025

REVISION: 1

1. IDENTIFICATION**Product number:** 551965**Product identifier used on the label:** Hemolysate Reagent**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
USA Toll Free 800-231-5663

Emergency phone number:

(409) 842-3714

2. HAZARD IDENTIFICATION**GHS Classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)****Label elements:****Signal word:** Warning**Precautionary Statements:**

May be fatal if swallowed, in contact with skin or if inhaled.

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component Name	Chemical Name	CAS #	Concentration
Hemolysate Reagent	Potassium Cyanide	151-50-8	< 0.08 %

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: Suitable extinguishing media (Water spray, Dry chemical, carbon dioxide, or Alcohol resistant foam) should be used.

Special hazards arising from the substance or mixture: Non-combustible.

Special protective equipment and precautions for fire fighters: 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. 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 eye.

Conditions for safe storage, including any incompatibilities: Store all kit components as per specified instructions on label.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits (AGGIH TLV & OSHA PEL):

Chemical Name	AGGIH TLV	OSHA PEL
Potassium cyanide	5 mg/m ³	5 mg/m ³

Exposure controls

Respiratory protection: Not normally required

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

10. STABILITY AND REACTIVITY

Reactivity: Stable under recommended transport or storage conditions.

Chemical stability: Stable under normal conditions

Possibility of hazard reaction: Hazard reactions will not occur under normal transport or storage conditions.

Conditions to avoid: Heat, Hot surfaces, Flames

Hazard decomposition products: No data available

11. TOXICOLOGICAL INFORMATION

Product Information: No acute toxicity information is available for this product.

Oral LD50: Based on ATE data, the classification criteria are not met. ATE>2000 mg/kg.

Chemical Name	LD 50 (oral, rat)
Potassium Cyanide	7.49 mg/kg

Potential health effects:

Irritating to eyes, respiratory system and skin

Carcinogenicity: No components are listed as carcinogen 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

Ecotoxicity: The product contains Potassium Cyanide, which are hazardous for the environment.

Persistence and degradability: Soluble in water. Persistence is unlikely based on information available.

Bioaccumulative potential: No information available

Mobility in soil: Will likely be mobile in environment due to its water solubility

13. DISPOSAL CONSIDERATION

Waste material must be disposed of in accordance with the national and local regulations

14. TRANSPORT INFORMATION

DOT (US): Not regulated

UN number:

UN proper shipping name:

Transport hazard class:

Packing group:

15. REGULATORY INFORMATION

US State Right to Know Laws:

California Proposition 65:

Hemolysate Reagent: This product contains a Potassium Cyanide, which is known to the State of California to cause developmental harm.

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

International Regulations:

EU Reach (1907/2006) - Annex XVII, Use restricted Potassium Cyanide

16. OTHER INFORMATION

SDS Creation date: 7/23/2025

Revision: 1

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HELENA LABORATORIES**SAFETY DATA SHEET**

DATE PREPARED: July 14, 2025

REVISION: 1

1. IDENTIFICATION**Product number:** 551151**Product identifier used on the label:** Acid Blue Stain**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
USA Toll Free 800-231-5663

Emergency phone number:

(409) 842-3714

2. HAZARD IDENTIFICATION**GHS Classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)**

Not a Hazardous Substance or Mixture

GHS Label elements

No signal word, no hazard statement(s), no precautionary statement(s) require

Other Hazards

None known

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component Name	Chemical Name	CAS #	Concentration
Acid Blue Stain	Acid Blue 29	5850-35-1	100 %

This product contains no hazardous chemicals at or above Threshold limits

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 should be used.

Special hazards: None known

Special protective equipment and precautions for fire-fighters: 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. 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 eye.

Conditions for safe storage, including any incompatibilities: Store as per specified instructions on label.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits (AGGIH TLV & OSHA PEL):

Contains no substances with occupational exposure limit value.

Exposure controls

Respiratory protection: Not normally required

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

Appearance: Blue black powder

Odor: None

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

10. STABILITY AND REACTIVITY

Reactivity: Not normally reactive

Chemical stability: Stable under normal conditions

Possibility of hazard reaction: None known

Conditions to avoid: Heat, Hot surfaces, Flames

Incompatible materials: No data available

Hazard decomposition products: No data available

11. TOXICOLOGICAL INFORMATION**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 carcinogen 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

Ecotoxicity: No data available

Persistence and degradability: No data available

Bioaccumulative 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 regulated

UN number:

UN proper shipping name:

Transport hazard class:

Packing group:

15. REGULATORY INFORMATION

US State Right to Know Laws:

California Proposition 65: Not listed

EU Reach: No information available.

16. OTHER INFORMATION

SDS Creation date: July 14, 2025

Revision: 1

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.

HELENA LABORATORIES**SAFETY DATA SHEET**

DATE PREPARED: 5/19/2025

REVISION: 1

1. IDENTIFICATION**Product identifier used on the label:** Citric Acid Destain**Product number:** 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
USA Toll Free 800-231-5663

Emergency phone number:
(409) 842-3714**2. HAZARD IDENTIFICATION****Classification of the substrate or mixture****GHS Classification in accordance with OSHA Hazard Communication Standard (29 CFR 1910.1200)**

Eye Irritation Category 2A

Specific target organ toxicity – single exposure Category 3 (Respiratory system)

GHS Label elements**Signal word:** Warning**Hazard Statements:**

Cause serious eye irritation.

May cause respiratory irritation.

Precautionary Statements:

Avoid breathing dust.

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

Wash skin thoroughly after handling.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component Name	Chemical Name	CAS #	Concentration
Citric Acid Destain	Citric Acid	77-92-9	< = 100 %

4. FIRST AID MEASURES

Description of first aid measures:

Inhalation: Remove person to fresh air.

Skin contact: Take off contaminated clothing. Wash off with soap and plenty of water. If skin irritation occurs, get medical attention.

Eye contact: Immediately flush eyes with plenty of water. Remove contact lenses if present. Consult a physician.

Ingestion: If swallowed: immediately make victim drink water. Consult a physician.

5. FIREFIGHTING MEASURES

Suitable extinguishing media: Water spray, dry chemical, carbon dioxide , or foam.

Special hazards: Carbon Oxides. Combustible.

Special protective equipment and precautions for firefighters: Self-contained breathing apparatus (SCBA) and full protective clothing gear if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures: Wear personal protective equipment. Avoid inhalation of dust. 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, do not inhale, avoid contact with skin and eye.

Conditions for safe storage, including any incompatibilities: Keep in dry place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits (AGGIH TLV & OSHA PEL):

Contains no substances with occupational exposure limit values.

Exposure controls

Respiratory protection: No personal respiratory protective equipment normally required.
Use NIOSH approved respirators if necessary.

Skin protection: Wear appropriate protective gloves and suitable protective clothing.

Eye protection: Wear appropriate safety glasses, goggles or face shield.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Crystalline white powder

Odor: None

Odor Threshold: No data available

pH: No data available

Melting point/Freezing point: 153 – 159° C

Initial boiling point and range: Not applicable

Flash point: Not applicable

Evaporation Rate: No data available

Flammability (solid, gas): No data available

Upper/lower Flammability or explosive limits: Not applicable

Vapor pressure: < 0.1 hPa at 25° C

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: No decomposition if stored and applied as directed

Chemical stability: Stable under normal condition

Possibility of hazard reaction: Hazardous polymerization does not occur

Conditions to avoid: No information available

Incompatible materials: Oxidizing agents, strong Bases

Hazard decomposition products: In the event of fire: Carbon oxides

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

The substance or mixture has no acute oral toxicity

Carcinogenicity: Not listed as a carcinogen by IARC, OSHA or NTP.

Potential Chronic Health Effects: No known chronic health effects

Other important toxicological hazards: To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

Ecotoxicity: No data available

Persistence and degradability: Readily biodegradable.

Bioaccumulative potential: No data available

Mobility in soil: No data available.

Other adverse effects: No data available

13. DISPOSAL CONSIDERATION

Waste material must be disposed of in accordance with the national and local regulations

14. TRANSPORT INFORMATION

DOT (US): Not regulated

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

California Proposition 65: No Information available.

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

International regulations:

EU Reach: This substance has been registered according to Regulation (EC) No. 1907/2006 (REACH)

16. OTHER INFORMATION

SDS Creation date: 5/19/2025

Revision: 1

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