

# HELENA LABORATORIES

# KIT SAFETY DATA SHEET

**Kit Product Name:** SPIFE Nexus Acid Hemoglobin Kit

**Kit Catalog Number(s):** 2418

DATE PREPARED: 7/30/2025

REVISION: 5

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## Kit Contents:

Component Name	Component Number
SPIFE Acid Hemoglobin Gel	552605
Hemolysate Reagent	551965
SPIFE Nexus Blue	552684
Citric Acid Destain	551959

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**HELENA LABORATORIES****SAFETY DATA SHEET**

DATE PREPARED: 7/30/2025

REVISION: 1

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**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

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**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

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

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#### 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.

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#### 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.

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#### 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.

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#### 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.

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## 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.

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## 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

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**Partition coefficient: n-octanol/water:** No data available

**Auto-ignition temperature:** No data available

**Decomposition temperature:** No data available

**Viscosity:** No data available

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## 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

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## 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.

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## 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** No data available

**Persistence and degradability:** No data available

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**Bioaccumulative potential:** No data available

**Mobility in soil:** No data available

**Other adverse effects:** No data available

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### 13. DISPOSAL CONSIDERATION

Observe all federal, state and local regulations.

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### 14. TRANSPORT INFORMATION

**DOT (US):** Not regulated

**UN number:**

**UN proper shipping name:**

**Transport hazard class:**

**Packing group:**

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### 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](http://www.p65warnings.ca.gov).

**International regulations:**

**EU Reach:** No information available.

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**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.

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#### 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.

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#### 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.

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#### 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.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure limits (AGGIH TLV & OSHA PEL):

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

### 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.

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## 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

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**Partition coefficient: n-octanol/water:** No data available

**Auto-ignition temperature:** No data available

**Decomposition temperature:** No data available

**Viscosity:** No data available

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## 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

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## 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.

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## 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.

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**Bioaccumulative potential:** No information available

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

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### 13. DISPOSAL CONSIDERATION

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

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### 14. TRANSPORT INFORMATION

**DOT (US):** Not regulated

**UN number:**

**UN proper shipping name:**

**Transport hazard class:**

**Packing group:**

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### 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](http://www.p65warnings.ca.gov)

**International Regulations:**

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

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### 16. OTHER INFORMATION

**SDS Creation date:** 7/23/2025

**Revision:** 1

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## HELENA LABORATORIES

## SAFETY DATA SHEET

DATE PREPARED: 7/30/2025

REVISION: 1

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**1. IDENTIFICATION****Product identifier used on the label:** SPIFE Nexus Blue**Product number:** 552684**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

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

Skin irritation           Category 2  
Eye Irritation           Category 2A

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

Cause serious eye irritation  
Cause skin Irritation

**Precautionary Statements:**

Wear protective gloves / protective clothing / eye and face protection.  
Wash skin thoroughly after handling

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS #	Concentration
Glacial Acetic Acid	64-19-7	5%
Acid Blue	5850-35-1	< 1%

**NOTE:** This Product contains no other hazardous chemicals at or above OSHA Threshold concentrations.

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### 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: Keep respiratory tract clear. Do not give milk or alcoholic beverage. Consult a physician.

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### 5. FIREFIGHTING MEASURES

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

**Special hazards:** No hazardous combustion products are known Combustible.

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

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### 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.

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## 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 container tightly closed in dry place.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure limits (AGGIH TLV & OSHA PEL):**

Chemical Name	CAS #	AGGIH TLV	OSHA PEL
Glacial Acetic Acid	64-19-7	TWA: 10 ppm	10 ppm

### 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.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

**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

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**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

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## 10. STABILITY AND REACTIVITY

**Reactivity:** None known

**Chemical stability:** Stable under normal condition

**Possibility of hazard reaction:** Hazardous polymerization will not occur

**Conditions to avoid:** Exposure to sunlight

**Incompatible materials:** Oxidizing agents, strong Bases

**Hazard decomposition products:** None known

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## 11. TOXICOLOGICAL INFORMATION

Chemical Name	LD50 (oral, rat)
Glacial Acetic Acid	3310 mg/kg

### Information on likely routes of exposure:

**Skin corrosion/irritation:** Irritating to skin

**Serious eye damage/irritation:** Irritating to eyes

**Carcinogenicity:** Not listed as a carcinogen by IGGIH, 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.

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**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

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**13. DISPOSAL CONSIDERATION**

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

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**14. TRANSPORT INFORMATION**

**DOT (US):** Not regulated

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

**California Proposition 65:** This product does not contain any Proposition 65 Chemicals

For more information, go to: [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov).

**International regulations:**

**EU Reach:** No Information available

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**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: 5/19/2025

REVISION: 1

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**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

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**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.

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

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

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### 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.

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### 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.

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### 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.

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### 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.

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## 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.

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## 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

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**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

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**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.

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**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

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**13. DISPOSAL CONSIDERATION**

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

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**14. TRANSPORT INFORMATION**

**DOT (US):** Not regulated

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

**California Proposition 65:** No Information available.

For more information, go to [www.p65warnings.ca.gov](http://www.p65warnings.ca.gov)

**International regulations:**

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

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**16. OTHER INFORMATION**

**SDS Creation date:** 5/19/2025

**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.