

HELENA LABORATORIES

KIT SAFETY DATA SHEET

Kit Product Name: SPIFE Alkaline Phosphatase-20, 40 Kit

Kit Catalog Number(s): 3345, 3346

Date Prepared: 8/28/2025

Revision: 7

Kit Contents:

Component Name	Component Number
SPIFE Alkaline Phosphatase Gel Kit	552604
SPIFE Alkaline Phosphatase Gel	552601
Citric Acid Destain	551959
SPIFE Alkaline Phosphatase Reagent Kit	552055
Alkaline Phosphatase Reagent	551232
Alkaline Phosphatase Diluent	551234

HELENA LABORATORIES**SAFETY DATA SHEET**

DATE PREPARED: 8/28/2025

REVISION: 1

1. IDENTIFICATION**Product number:** 552601**Product identifier used on the label:** SPIFE Alkaline Phosphatase 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 Alkaline Phosphatase Gel

Appearance: Colorless 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

15. REGULATORY INFORMATION

US State Right to Know Laws:

California Proposition 65:

SPIFE Alkaline Phosphatase Gel: This product can expose you to Barbiturates, 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: 8/28/2025

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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HELENA LABORATORIES

KIT SAFETY DATA SHEET

Kit Product Name: SPIFE Alkaline Phosphatase Reagent Kit

Kit Catalog Number(s): 552055

Date Prepared: 8/28/2025

Revision: 1

Kit Contents:

Component Name	Component Number
Alkaline Phosphatase Reagent	551232
Alkaline Phosphatase Diluent	551234

HELENA LABORATORIES**SAFETY DATA SHEET**

DATE PREPARED: 8/28/2025

REVISION: 1

1. IDENTIFICATION**Product Name:** Alkaline Phosphatase Reagent**Product number:** 551232**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)**

Acute Toxicity (Oral)	Category 4
Eye Damage/eye irritation	Category 2
Skin corrosion/irritation	Category 2

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

Harmful if swallowed
Cause serious eye irritation
Cause skin irritation

Precautionary Statements:

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

Hazards not otherwise classified (HNOC) or not covered by GHS - None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS #	Concentration
Nitro Blue Tetrazolium	298-83-9	> 98%

4. FIRST AID MEASURES

Description of first aid measures:

Inhalation: If Breathed in, move person into fresh air. Consult a physician

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: Rinse mouth. Consult a physician.

5. FIREFIGHTING MEASURES

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

Special hazards: Hazardous reaction will not occur under normal conditions of use

Hazardous Combustion Products: Carbon oxides, Nitrogen oxides, Hydrogen chloride

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. 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: Store at recommended storage temperature.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits (AGGIH TLV & OSHA PEL): No data available

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: yellow powder

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: 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 data available

Chemical stability: Stable under normal condition

Possibility of hazard reaction: Hazardous polymerization will not occur

Conditions to avoid: No information available

Incompatible materials: Oxidizing agents

Hazard decomposition products: Carbon oxides, Nitrogen oxides, Hydrogen chloride

11. TOXICOLOGICAL INFORMATION

Acute Toxicity (Oral): LD50 oral – Mouse – 2000 mg/kg

Carcinogenicity: Not classified

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 - General: No information 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

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

14. TRANSPORT INFORMATION

DOT (US): Not dangerous goods

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

California Proposition 65: This product can expose you to Methanol, which is known to the state of California to cause birth defects or other reproductive harm. For more information go to www.P65warning.ca.gov

International regulations:

EU Reach: No Information available

16. OTHER INFORMATION

SDS Creation date: 8/28/2025

Revision: 1

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HELENA LABORATORIES**SAFETY DATA SHEET**

DATE PREPARED: 8/28/2025

REVISION: 1

1. IDENTIFICATION**Product Name:** Alkaline Phosphatase Diluent**Product number:** 551234**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 Damage/eye irritation Category 2

Skin corrosion/irritation Category 2

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

Harmful if swallowed
Cause serious eye irritation
Cause skin irritation

Precautionary Statements:

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

Hazards not otherwise classified (HNOC) or not covered by GHS - None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS #	Concentration
2-Amino-2-methyl-1-propanol	124-68-5	< 20 %

Note: Alkaline Phosphatase Diluent contains other no reportable hazardous ingredients above the OSHA-defined threshold limit.

4. FIRST AID MEASURES

Description of first aid measures:

Inhalation: If breathed in, move person into fresh air. Consult a physician

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: Rinse mouth. Consult a physician.

5. FIREFIGHTING MEASURES

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

Special hazards: Hazardous reaction will not occur under normal conditions of use

Hazardous Combustion Products: Carbon oxides, Nitrogen oxides

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. 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: Store at recommended storage temperature.

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: Clear, colorless liquid

Odor: None

Odor Threshold: No data available

pH: < 11

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: No data available

Chemical stability: Stable under normal condition

Possibility of hazard reaction: Hazardous polymerization will not occur

Conditions to avoid: No information available

Incompatible materials: No data available

Hazard decomposition products: Carbon oxides, Nitrogen oxides

11. TOXICOLOGICAL INFORMATION

No acute toxicity information is available for this product

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

Carcinogenicity: Not identified by IARC, NTP or OSHA

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 - General: No information 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

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

14. TRANSPORT INFORMATION

DOT (US): Not a dangerous good

15. REGULATORY INFORMATION

US State Right to Know Laws:

California Proposition 65: No Information available

International regulations:

EU Reach: No Information available

16. OTHER INFORMATION

SDS Creation date: 8/28/2025

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.