
SAFETY DATA SHEET

HELENA LABORATORIES
1530 Lindbergh Dr.
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USA Toll Free 800-231-5663

DATE PREPARED: 2/1/2024

REVISION: 5

1. IDENTIFICATION**Product number: 3332, 3333****Product identifier used on the label: SPIFE CK – 20, 40 Kit****Other means of identification:**

Component Name	Component Number
552015 or 552612, SPIFE CK Gel Kit	
SPIFE CK Gel	552014
Citric Acid Destain	551959
552028, SPIFE CK Reagent Kit	
SPIFE CK Reagent	552021
SPIFE CK Diluent	552024
SPIFE CK Activator	552025
SPIFE CK Chromogen	552026

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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2. HAZARD IDENTIFICATION**Classification of the chemical:**

Component Name	GHS Classification	Hazard Statement
Citric Acid Destain (Powder)	Eye/Skin (Category 2)	Irritant
SPIFE CK Chromogen	Eye Irritation (Category 2A)	

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

Precautionary statements:

Skin: May cause skin irritation

Eye: Causes serious eye irritation

Inhalation: Harmful if inhaled

Ingestion: Harmful if swallowed

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component Name	Chemical Name	CAS #	Concentration
Citric Acid Destain	Citric Acid	77-92-9	100%
SPIFE CK Chromogen	N,N-Dimethylformamide	68-12-2	>80%
	Tetranitro Blue Tetrazolium	1184-43-6	<10%

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

4. FIRST AID MEASURES**Description of first aid measures:****Citric Acid Destain**

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.

SPIFE CK Chromogen

Inhalation: Remove person to fresh air. If not breathing, give artificial respiration. Consult a physician.

Skin contact: Wash off with soap and plenty of water. Consult a physician.

Eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Ingestion: If swallowed 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, nitrogen 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. Should not be released into the environment.

Methods and materials for containment and cleaning up: Soak up with inert absorbent material and transfer to container for proper disposal.

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
Citric Acid	None listed	None listed
Dimethylformamide	10 ppm	10 ppm
Tetranitro Blue Tetrazolium	None listed	None listed

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

Exposure controls:

Respiratory protection: Not 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

Citric Acid Destain (Powder)

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

CK Chromogen

Appearance: Yellow to brown liquid

Odor: Rotten-egg like

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: 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:

Citric Acid Destain (Powder) LD50 oral rat = 5400 mg/kg

NOTE: Citric Acid Destain is not hazardous (<1%) when dissolved following instructions on label.

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

Dimethylformamide LD50 (oral rat) = 3040 mg/kg

Irritating to eyes and skin.

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):

SPIFE CK – 20, 40 Gel Kit - Not regulated

SPIFE CK Reagent Kit – 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 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: 5/5/2015

Revision #: 5

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.