SAFETY DATA SHEET

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

DATE PREPARED: 2/2/2024
REVISION: 5

1. IDENTIFICATION

Product number: 3385

Product identifier used on the label: SPIFE IgG IEF – 20 Kit

Other means of identification:

Component Name	Component Number
3385, SPIFE IgG IEF Gel Kit	
IgG IEF Gel	552417
IgG IEF Anode Solution	552197
IgG IEF Cathode Solution	552198
IgG IEF Blocking Agent	552199
IgG IEF Acetate Buffer Concentrate	552200
552202, SPIFE IgG IEF Reagent Kit	
IgG IEF Chromogen	552201
IgG IEF Single Antibody	552214

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
IgG IEF Cathode Solution	Skin corrosion/ irritation (Category 1)	Corrosive
IgG IEF Anode Solution	Skin Irritation (Category 2)	Irritant
IgG IEF Chromogen	Carcinogenity (Category 1B)	May cause cancer

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

Label elements:

Signal word: Danger, Warning

Precautionary statements:

Ingestion: Harmful if swallowed

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component Name	Chemical Name	CAS #	Concentration
IgG IEF Cathode Solution	Sodium Hydroxide	1310-73-2	≥2% and <5%
IgG IEF Anode Solution	Acetic Acid	64-19-7	<10%
IgG IEF Chromogen	3-Amino-9-ethylcarbazole	132-32-1	≥25%

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

4. FIRST AID MEASURES

Description of first aid measures:

Inhalation: If breathed in, 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: Flush eyes with water as a precaution. 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 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.

Methods and materials for containment and cleaning up: Mop up powder spills with wetted paper tissue and liquid spills with absorbent material. Transfer in suitable container for 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 (ACGIH TLV & OSHA PEL):

Chemical Name	ACGIH TLV	OSHA PEL
Acetic Acid	10 ppm	10 ppm
Sodium Hydroxide	Not known	Not known
3-Amino-9-ethylcarbazole	Not known	Not known

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

IgG IEF Cathode Solution

Appearance: Clear colorless liquid

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: Soluble

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

Auto-ignition temperature: No data available

Decomposition temperature: No data available

Viscosity: No data available

IgG IEF Anode Solution

Appearance: Clear colorless liquid

Odor: Mild pungent

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

IgG IEF Chromogen

Appearance: Brown powder

Odor: None

Odor threshold: No data available

pH: No data available

Melting point/Freezing point: 98-100°C (208-212°F)

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

10. STABILITY AND REACTIVITY

IgG IEF Cathode Solution

Reactivity: No data available.

Chemical stability: Stable under normal condition.

Possibility of hazard reaction: Hazardous polymerization does not occur.

Conditions to avoid: Incompatible materials.

Incompatible materials: Oxidizing agents, acids, metals, reducing agents, alkalines.

Hazard decomposition products: No data available.

IgG IEF Anode Solution

Reactivity: No data available.

Chemical stability: Stable under normal condition.

Conditions to avoid: Incompatible materials.

Incompatible materials: Oxidizing agents, bases, metals.

Hazard decomposition products: Carbon monoxide, carbon dioxide.

Possibility of hazard reaction: Hazardous polymerization does not occur.

IgG IEF Chromogen

Reactivity: No data available.

Chemical stability: Stable under normal condition.

Conditions to avoid: No data available.

Incompatible materials: Oxidizing agents, acids.

Hazard decomposition products: No data available.

Possibility of hazard reaction: No data available.

11. TOXICOLOGICAL INFORMATION

IgG IEF Cathode Solution

LD 50 Oral: No data available

Inhalation: Harmful if inhaled

Ingestion: Harmful if swallowed

Skin: May be harmful if absorbed through skin. Cause skin irritation

Eye: Cause eye irritation

IgG IEF Anode Solution

Calculated ATE LD 50 Oral: >5000 mg/kg

Inhalation: Harmful if inhaled

Ingestion: Harmful if swallowed

Skin: May be harmful if absorbed through skin. Cause skin irritation

Eye: Cause eye irritation

IgG IEF Chromogen

LD 50 Oral: No data available

Inhalation: No data available

Ingestion: No data available

Skin: No data available

Eye: No data available

Carcinogenicity: No components of this product present at level greater than or equal 0.1% is identified as probable, possible or confirmed human carcinogens by ACGIH, 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

SPIFE IgG IEF Gel Kit

DOT (US): Regulated as Hazardous Material during transportation.

UN number: UN1760

UN proper shipping name: Corrosive Liquid, N.O.S. (Sodium Hydroxide)

Transport hazard class: 8

Packing group: II

DOT (US): Regulated as Hazardous Material during transportation.

UN number: UN2811

UN proper shipping name: Toxic Solid, Organic, N.O.S. (3-Amino-9-Ethylcarbazole)

Transport hazard class: 6.1

Packing group: III

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: 5/26/2015

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.