SAFETY DATA SHEET

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

DATE PREPARED: 2/2/2024
REVISION: 2

1. IDENTIFICATION

Product number: 3432

Product identifier used on the label: SPIFE A1AT Kit

Other means of identification:

Component Name	Component Number
SPIFE A1AT Gel Kit	**552651**
A1AT Gel	552650
Anode Solution	552197
Cathode Solution	552198
Acid Violet Stain	551758
Tris-Buffered Saline	551715
A1AT Antibody Kit	552658

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
Cathode Solution	Skin corrosion/ irritation (Category 1)	Corrosive
Anode Solution	Skin Irritation (Category 2)	Irritant

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
Cathode Solution	Sodium Hydroxide	1310-73-2	≥2% and <5%
Anode Solution	Acetic Acid	64-19-7	<10%

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 oxides, 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 (AGGIH TLV & OSHA PEL):

Chemical Name	AGGIH TLV	OSHA PEL
Acetic Acid	10 ppm	10 ppm
Sodium Hydroxide	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

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

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

10. STABILITY AND REACTIVITY

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.

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.

11. TOXICOLOGICAL INFORMATION

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

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

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 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

SPIFE A1AT Gel Kit

DOT (US): 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: 1/10/2020

Revision #: 2

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.