

SAFETY DATA SHEET

HELENA LABORATORIES
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REVISION: 4

1. IDENTIFICATION

Product Number: 3067

Product identifier used on the label: Titan Gel Immunofix-Plus Kit

Other means of identification:

Component Name	Component Number
Titan Gel IFE Gel Plate	551275
Titan Gel IFE Buffer	551177
Acid Blue Stain	551151

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
Titan Gel IFE Buffer	Acute toxicity, oral (Category 3)	Harmful if swallowed

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

Label elements:**Signal word:** Warning !**Precautionary statements:****Skin:** May cause skin irritation.**Eye:** May cause eye irritation.**Inhalation:** May be harmful if inhaled. May cause respiratory tract irritation.**Ingestion:** Harmful if swallowed.

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component Name	Chemical Name	CAS #	Concentration
Titan Gel IFE Gel Plate	Thimerosal	54-64-8	< 0.1%
Titan Gel IFE Buffer	Barbital	57-44-3	85 %
	Sodium Azide	26628-22-8	5%
	Thimerosal	54-64-8	1%

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

4. FIRST AID MEASURES**Description of first aid measures:****Inhalation:** Move person into fresh air. If not breathing, give artificial respiration. Consult a physician.**Skin contact:** 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:** Call a physician immediately.**Most important symptoms and effect, acute and delayed:** Symptoms of acute toxicity: increasing restlessness, low blood pressure, respiratory slow down, person does not react to pain.

Prolonged or repeated exposure may result in psychic or physical dependence.

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 oxide, sulfur oxides, sodium 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. 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. Carefully take up dry. Vacuum residue.

7. HANDLING AND STORAGE

Precautions for safe handling: Wear personal protective equipment; do not inhale, avoid contact with skin and eyes.

Conditions for safe storage, including any incompatibilities: Keep containers tightly closed and store in a cool dry place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits (ACGIH TLV & OSHA PEL):

Chemical Name	ACGIH TLV	OSHA PEL
Barbital	None listed	None listed
Sodium Azide	0.3 mg/m ³	None listed
Thimerosal	0.1 mg/m ³	0.01 mg/m ³

Exposure controls:

Respiratory protection: Use NOISH approved respirators.

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

Titan Gel IFE Buffer

Appearance: White powder

Odor: None

Odor threshold: No data available

pH: 8.4-8.8 (when dissolved following instructions on label)

Melting point/Freezing point: No data available

Initial boiling point and range: Not applicable

Flash point: No data available

Evaporation rate: No data available

Flammability (solid, gas): No data available

Upper/lower flammability or explosive limits: Not applicable

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: Light and elevated temperature. Avoid contact with incompatible materials.

Incompatible materials: Oxidizing agents, strong acids

Hazard decomposition products: Hazard decomposition products formed under fire conditions: Carbon oxides, nitrogen oxides, sodium oxides, sulfur oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

The calculated ATE values:

Titan Gel IFE Buffer LD50 Oral = 287 mg/kg

See the following table for individual ingredient acute toxicity data

Chemical Name	LD 50 (oral, rat)
Barbital	600 mg/kg
Sodium Azide	27 mg/kg
Thimerosal	75 mg/kg

Carcinogenicity: Not listed as carcinogens by ACGIH, IARC, OSHA or NTP.

Potential health effects:

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion: Harmful if swallowed.

Skin: May cause skin irritation

Eye: May cause eye irritation

Potential Chronic Health Effects: The chronic exposure may result in psychic or physical dependence.

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): Not applicable

UN number: Not applicable

UN proper shipping name: Not applicable

Transport hazard class: Not applicable

Packing group: Not applicable

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: Thimerosal

Other US State "Right to Know" List: The following chemicals are listed by individual States:

Thimerosal (PA, NJ)

Sodium Azide (MA, PA, NJ)

16. OTHER INFORMATION

SDS Creation date: 1/15/2014

Revision #: 4

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.