
SAFETY DATA SHEET

HELENA LABORATORIES
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REVISION: 4

1. IDENTIFICATION**Product Number:** 3058**Product identifier used on the label:** TITAN GEL ALKALINE PHOSPHATASE (HR) KIT**Other means of identification:**

Component Name	Component Number
3058 Titan Gel Alkaline Phosphatase (HR) Gel Kit	
Titan Gel Alkaline Phosphatase Gel Plates	551029
Titan Gel Alkaline Phosphatase Buffer	551038
551031 Titan Gel Alkaline Phosphatase (HR) Reagent Kit	
Titan Gel Alkaline Phosphatase (HR) Reagent	551030
Titan Gel Alkaline Phosphatase (HR) Diluent	551033
Titan Gel Alkaline Phosphatase Separation Enhancer	551034

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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1530 Lindbergh Dr.
Beaumont, TX 77707
Tel: (409) 842-3714
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Emergency phone number:(409) 842-3714

2. HAZARD IDENTIFICATION

Classification of the chemical:

Component Name	GHS Classification	Hazard Statement
Titan Gel Alkaline Phosphatase (HR) Buffer	Acute toxicity, oral (Category 3)	Harmful if swallowed
Titan Gel Alkaline Phosphatase (HR) Diluent	Not Classified	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 inhale.

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 Alkaline Phosphatase (HR) Gel	Thimerosal	54-64-8	< 0.1%
Titan Gel Alkaline Phosphatase (HR) Buffer	Barbital	57-44-3	62%
Titan Gel Alkaline Phosphatase (HR) Diluent	AMP	77-86-1	15%

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

4. FIRST AID MEASURES

Description of first aid measures:

Titan Gel Alkaline Phosphatase (HR) Buffer

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.

Titan Gel Alkaline Phosphatase (HR) Diluent

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 20 minutes.

Ingestion: If swallowed rinse mouth with water. Get medical attention.

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.

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: Avoid dust formation. Wear personal protective equipment. Evacuate personnel to safe areas.

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
AMP	None listed	None listed

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

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 Alkaline Phosphatase (HR) Buffer

Appearance: White powder

Odor: None

Odor threshold: No data available

pH: 8.6-9.0 (when dissolved following instructions on label)

Melting point/Freezing point: No data available

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: 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

Titan Gel Alkaline Phosphatase (HR) Diluent

Appearance: Clear solution

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: 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

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.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

The calculated ATE values LD50

Titan Gel Alkaline Phosphatase (HR) Buffer LD50 Oral = 968 mg/kg

Titan Gel Alkaline Phosphatase (HR) Diluent LD50 Oral = 20000 mg/kg

See the following table for individual ingredient acute toxicity data

Chemical Name	LD 50 (oral, rat)
Barbital	600 mg/kg
AMP	2900 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)

16. OTHER INFORMATION**SDS Creation date:** 1/14/2014**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.