



GTi DIAGNOSTICS®

Good science starts with people.®

MATERIAL SAFETY DATA SHEET

(According to 2001/58/EC)

Product : HLA EZ TYPE™

1. INFORMATION OF THE SUBSTANCE/PREPARATION AND COMPANY

- 1.1. Product name HLA EZ TYPE™
- Catalog # A/B/C/Low, A/B/DR Low, DR/DQ Low, A Low, B Low, C Low, DR Low
- Kit components Primer Plate
HLA PCR Reagent
E-Gel®
- 1.2. Company GTI Diagnostics
20925 Crossroads Circle, Suite 200
Waukesha, WI 53186-4054, USA
(262) 754-1000 OR 1-800-233-1843
- 1.3. In emergencies After normal business hours, weekends, and holidays:
Call your local emergency center.
For Chemical Emergency Spill Leak Fire Exposure
or Accident call CHEMTREC
Domestic North America: 800-424-9300
International: 703-527-3887 (collect calls accepted)

2. COMPONENTS AND HAZARDOUS INGREDIENTS

Kit Component	Hazardous Ingredients	Classification Substance	EINECS NR.
Primer Plate	NA		
HLA PCR Reagent	NA		
E-Gel®	Ethidium Bromide < 0.1%	T+, R22-26-36/37/38-68	214-984-6

3. HAZARDS IDENTIFICATION

According to 1999/45/EG, the preparation E-Gel® containing < 0.1% Ethidium Bromide is not classified as dangerous.

4. FIRST AID MEASURES

Eye contact: - Flush eyes with plenty of water for at least 20 minutes retracting eyelid soften. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention.



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- Skin contact:* - Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists.
- After inhalation:* - Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen.
- If not breathing, give artificial respiration and have a trained individual administer oxygen. Get medical attention immediately.
- After ingestion:* - Do not induce vomiting and seek medical attention immediately. Drink two glasses of water or milk to dilute. Provide medical care provider with this MSDS.
- Note To Physician: Treat symptomatically.

5. FIRE FIGHTING MEASURES

- Suitable extinguishing media:* - Use alcohol resistant foam, carbon dioxide, dry chemical, or water spray when fighting fires. Water or foam may cause frothing if liquid is burning but it still may be a useful extinguishing agent if carefully applied to the fire. Do not direct a water stream directly into the hot burning liquid.
- Unsuitable extinguishing media:* - No data available
- Special exposure hazards:* - Emits toxic fumes under fire conditions.
- Instructions:* - Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products.
- Special protective equipment for firefighters:* - Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment.

6. ACCIDENTAL RELEASE MEASURES

- Personal protection:*
- Accidental releases may be subject to special reporting requirements and regulatory mandates. Refer to Section 8 for personal protection equipment recommendations.
- Environmental precautions:*
- Clean-up:*
- Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section VIII of this MSDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill.
 - Ventilate the contaminated area.
 - Absorb spill. Common absorbent materials should be effective.
 - Deposit in appropriate containers for removal and disposal.



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7. HANDLING AND STORAGE

Storage of some materials is regulated by federal, state, and/or local laws.

Handling:

- Harmful or irritating material.
- Avoid contacting and avoid breathing the material.
- Use only in a well ventilated area.
- Keep closed or covered when not in use.

Storage:

- Store in a cool dry ventilated location.
- Isolate from incompatible materials and conditions.
- Keep container(s) closed.
- Suitable for most general chemical storage areas.
- Storage Pressure: Ambient

Specific purposes: - NA

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Exposure limits

OSHA PEL: not established
AGCIH TWA: not established

8.2 Control of Exposure

8.2.1 Exposure to persons

Respiratory Protection: - Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure.

Hand Protection: - Gloves should be used as minimum hand protection.

Eye Protection: - Safety glasses should be the minimum eye protection.
Wear chemically resistant safety glasses with side shields when handling this product.
Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material. Do not wear contact lenses. Have an eye wash station available.

Skin Protection - Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly.



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Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

8.2.2 Exposure to environment

Aquatic Classification: No data available

Ozone Classification: No data available

Bioaccumulation: No data available

9. PHYSICAL AND CHEMICAL PROPERTIES

E-Gel® gel

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Reactivity/Hazardous decomposition products: Carbon monoxide. Carbon dioxide. Hazardous polymerization will not occur.

Conditions/Materials to avoid: Strong oxidizing agents. High temperatures. Temperatures above flash point in combination with sparks, open flames, or other sources of ignition.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:

Dermal/Skin: Not determined.

Inhalation/Respiratory: 0.118 to 0.134 mg/L Rat

Oral/Ingestion: 1503 mg/kg Rat

Target Organs: No data found.

Carcinogenicity:

NTP: Not tested.

IARC: Not listed.

OSHA: Not regulated.

12. ECOLOGICAL INFORMATION

Ecotoxicological Information: No ecological information available.

Environmental Fate (Degradation, Transformation, and Persistence): Bioconcentration is not expected to occur.



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13. WASTE DISPOSAL CONSIDERATIONS

Regulatory Information

Not applicable.

Disposal Method:

Clean up and dispose of waste in accordance with all federal, state, and local environmental regulations.

14. TRANSPORT INFORMATION

No restrictions.

15. REGULATORY INFORMATION

Classification according to directives 67/548/EEC, 1999/45/EC : not dangerous.

16. OTHER INFORMATION

This product is designed for use by professionals.

Risk phrases referred to in section 2:

R22: Harmful if swallowed

R26: Very toxic by inhalation

R36/37/38: Irritating to eyes, respiratory system and skin

R68: Possible risk of irreversible effects

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

It remains the user's own responsibility to make sure that the information is appropriate and complete for his specific use of this product. The user is also responsible for observing any laws and applicable guidelines.

MSDS established : 2006-10-31

Revision number : 2