



DNA Gel Cartridge MSDS

MATERIAL SAFETY DATA SHEET

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Document No.: MSD-G55101/G55121
Revision No.: 0
Emergency Phone: 800-424-9300
(CHEMTREC 24hr)

SECTION 1. PRODUCT INFORMATION

CATALOG #: G55101 or G55121
NAME: DNA Gel Cartridge

SECTION 2. COMPOSITION/INFORMATION ON COMPONENTS

Chemical Characterization

Description: Mixture of the substances listed below with nonhazardous additions.

<u>Dangerous Components</u>	<u>CAS No</u>	<u>Percent</u>
Ethidium Bromide	1239-45-8	<0.0005%

SECTION 3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

May be harmful if swallowed, or absorbed through the skin.

POTENTIAL HEALTH EFFECTS:

No specific health hazard information on this product was found. However the following warnings are appropriate.

- INHALATION: Moderate irritant. May cause coughing or sneezing.
- INGESTION: The material should be assumed to be at least moderately hazardous. Gastrointestinal upset with possible liver or kidney damage are suggested by the compound's structure.
- SKIN CONTACT: The material should be assumed to be at least moderate irritant as well as a dye. Inflammation and discoloration of the skin may occur after contact.



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-EYE CONTACT: Possible irritant. Ethidium bromide may be absorbed through eye tissues with unknown results. See Ingestion above.

CHRONIC EXPOSURE: No information found.

AGGRAVATION OF PRE-EXISTING CONDITIONS: No information found.

SECTION 4. FIRST-AID MEASURES

INHALATION: Remove to fresh air. Get medical attention for any breathing difficulty.

INGESTION: Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.

SKIN CONTACT: Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if irritation develops.

EYE CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention if irritation persists.

SECTION 5. FIRE FIGHTING MEASURES

FIRE: Not considered to be a fire hazard.

EXPLOSION: Not considered to be an explosion hazard.

FIRE EXTINGUISHING MEDIA: Use any means suitable for extinguishing surrounding fire.

SPECIAL INFORMATION: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in section 8. Contain and recover liquid when possible. Collect liquid in an appropriate container or absorb with an inert material (e.g. vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust.



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SECTION 7. HANDLING AND STORAGE

Stored in a cool dry area. Protect against physical damage. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product.

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

AIRBORNE EXPOSURE LIMIT: None established.

VENTILATION SYSTEM: Not expected to require any special ventilation.

PERSONAL RESPIRATORS (NIOSH APPROVED): Not expected to require personal respirator use.

SKIN PROTECTION: Wear protective gloves and clean body-covering clothing.

EYE PROTECTION: Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Orange liquid.

ODOR: Odorless.

BOILING POINT: No information found.

MELTING POINT: No information found.

WATER SOLUBILITY: Water Soluble.

SPECIFIC GRAVITY: No information found.

pH: No information found.

% VOLATILES BY VOLUME @ 21C (70F): No information found.

EVAPORATION RATE (BuAc=1): No information found.

VAPOR DENSITY: No information found.

VAPOR PRESSURE: No information found.

SECTION 10. STABILITY AND REACTIVITY

STABILITY: Stable under ordinary conditions of use and storage.

HAZARDOUS DECOMPOSITION PRODUCTS: No decomposition if used according to specifications.

INCOMPATIBILITIES: No information found.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: No information found.



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SECTION 11. TOXICOLOGICAL INFORMATION

No LD50/LC50 information found relating to normal routes of occupational exposure. Investigated as a tumorigen and a mutagen.

	----NTP Carcinogen----		
<u>Ingredient</u>	<u>Known</u>	<u>Anticipate</u>	<u>IARC Category</u>
Ethidium Bromide (1239-45-8)	No	No	None

SECTION 12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE: No information found.
 ENVIRONMENTAL TOXICITY: No information found.

SECTION 13. DISPOSAL CONSIDERATIONS

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state, and local requirements.

SECTION 14. TRANSPORTATION INFORMATION

Not regulated.

SECTION 15. REGULATORY INFORMATION

Chemical Inventory Status Part 1

<u>Ingredient</u>	<u>TSCA</u>	<u>EC</u>	<u>Japan</u>	<u>Australia</u>
Ethidium Bromide (1239-45-8)	Exempt	Yes	No	Yes

Chemical Inventory Status Part 2

	-----Canada-----			
<u>Ingredient</u>	<u>Korea</u>	<u>DSL</u>	<u>NDSL</u>	<u>Phil.</u>
Ethidium Bromide (1239-45-8)	Yes	No	No	Yes



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Federal, State & International Regulations Part 1

	-SARA 302-	-----SARA 313-----	
<u>Ingredient</u>	<u>RQ</u> <u>TPQ</u>	<u>List</u>	<u>Chemical Catg.</u>
Ethidium Bromide (1239-45-8)	No No	No	No

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Federal, State & International Regulations Part 2

	-RCRA-	-TSCA-
<u>Ingredient</u>	<u>CERCLA</u> <u>261.33</u>	<u>8(d)</u>
Ethidium Bromide (1239-45-8)	No No	No

Chemical Weapons Convention: No TSCA 12 (b): No CDTA: No
 SARA 311/312: Acute: Yes Chronic: No Fire: No Pressure: No
 Reactivity: No (Mixture / Liquid)

Australian Hazchem Code: No information found.

Poison Schedule: No information found.

WHMIS:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information Required by the CPR.

SECTION 16. OTHER INFORMATION

The above information is believed to be correct and shall be used only as a guide. The information may be inclusive. Transgenomic, Inc. shall not be held liable for any damage resulting from handling or from contact with the above material.

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