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MATERIAL SAFETY DATA SHEET

Ladders and Molecular Weight Markers

In Case of Emergency: Call ChemTrac (24 hr): 800-424-9300, 703-527-3887 Call (330)425-2522

1. Product Identification

DNA Ladders and Quantitation Fragments in TE Buffer.

2. Composition/Information on Ingredients

No hazardous components.

3. Hazards Identification

Occupational exposure presents little or no health hazards.

Potential Health Effects:

Eye:	May cause irritation of the eye
Skin:	Contact may irritate/inflame the skin
Inhalation:	No toxicity expected from inhalation
Ingestion:	May cause nausea or vomiting
Chronic:	No data on cancer

4. First Aid Measures

Eye:
Flush with water in eyewash for at least 15 minutes, holding eyelids open. Remove contact lenses and clean before reuse. Obtain medical attention if symptoms develop (redness, itching, etc.)

Skin:
Wash with plenty of soap and water. Obtain medical attention if symptoms develop (redness, itching, etc.) Remove contaminated clothes and wash before reuse.

Inhalation:
Remove person to fresh air. Obtain medical attention unless effects are mild and temporary

Ingestion:
Give plenty of water, if conscious. If vomiting occurs naturally, wash mouth out. Be prepared to induce vomiting upon physician's advice. Obtain medical attention if symptoms develop.

Not to Physician:
Treat symptomatically.

5. Fire Fighting Measures

Flashpoint:	Not Available
Upper Flammable Limit %:	Not Available
Lower Flammable Limit %:	Not Available
Auto-ignition Temperature:	Not Available

Extinguishing Media:
Use appropriate means for surrounding materials.

Firefighting Techniques/Equipment:
Standard turnout gear ("bunker gear"). Positive-pressure self-contained breathing apparatus.

Hazardous combustion products:
Includes carbon dioxide, carbon monoxide, dense smoke

6. Accidental Release Measures

Accidental releases may be subject to special reporting requirements and other regulatory mandates. Refer to Section 8 for personal protection equipment recommendations.

Spill Cleanup:
Absorb spill. Common absorbent materials should be effective. Deposit in appropriate containers for removal and disposal.

7. Handling and Storage

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

Storage Pressure: Ambient

Handling Procedure: Keep closed or covered when not in use.

Storage Procedures: Suitable for most general chemical storage areas.

8. Exposure Controls/Personal Protection

Exposure Limits: Not available

Components: No hazardous components

Engineering Controls: Area ventilation is generally adequate

Personal Protective Equipment

Eye: Safety glasses should be the minimum eye protection

Skin: Gloves should be used as minimum hand protection

Respiratory: No respiratory protection will be needed under normal industrial operating conditions.

9. Physical and Chemical Properties

Appearance/Physical State:	Liquid Solution/Suspension
Odor:	No odor
Boiling Point:	Not established
Melting Point:	Not established
Solubility in water:	Not established
pH:	Not established
Vapor Pressure:	Not established
Vapor Density:	Not established
Specific Gravity/Density:	Not established
Octanol/Water Partition Coeff:	Not established
Volatiles:	Not established
Evaporation Rate:	Not established
Viscosity:	Not established

10. Stability and Reactivity

Stability:
Stable under ordinary conditions of use and storage.

Conditions to Avoid:
Strong oxidizers.

Hazardous Decomposition Products:
None known

Hazardous Polymerization:
Not expected to occur

11. Toxicological Information

Acute Toxicity:

Dermal/Skin:	Not determined
Inhalation/Respiratory:	Not determined
Oral/Ingestion:	Not determined
Target Organs:	No data found
Carcinogenicity:	No data found
NTP:	Not tested

IARC:

Not Listed

OSHA:

Not regulated

12. Ecological Information

No ecological information available

Bio-concentration is not expected to occur.

13. 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

Proper Shipping Name:

Not determined

Hazard Class:

Subsidiary hazards

15. Regulatory Information

United States

TSCA:

This product is solely for research and development purposes only and may not be used, processed, or distributed for commercial purposes. It may only be handled by technically qualified individuals.

Prop 65 Listed Chemicals:
No hazardous components.
No 313 Chemicals

PROP 65

Canada:

DSL/NDSL:

Not Determined

Component:

No hazardous components

WHMIS Classification

European Union:

Product Risk Phrases: None assigned

Product Safety Phrases: None assigned

Product Classification: Not classified

Component Number:

EINECS

No hazardous components

16. Other Information

HMIS Rating (0 – 4)

Fire:	Not determined
Health:	Not determined
Reactivity:	Not determined

Status: Accepted

Reviewed By: Brady Chung

Review Date: 7/23/2009

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