



Product: Plasmid DNA
Rev. No:
Page 1 of 3

MATERIAL SAFETY DATA SHEET

Section 1. Identification

Product Name: PLASMID DNA
Chemical Name: Deoxyribonucleic Acid
CAS Number:
Substance: deoxyribonucleic acid

Other Names or Code Numbers: N/A

Section 2. Composition / Information on Ingredients Section 4. First Aid Measures

Components	% Optional	OSHA PEL	ACGIH TLV	OTHER STANDARDS
PLASMID DNA		None	None	None

Section 3. Hazards Identification

General Statement: PLASMID is a nucleic acid prepared from normal human tissue culture cells.

Carcinogen Status: OSHA: No NTP: No IARC: No

Carcinogen Statement: No carcinogenicity data for PLASMID DNA are available in animals or humans.

Mutagenic Effects: No data available.

Teratogenic Effects: No data available.

Reproductive Effects: No data available.

Neurotoxic Effects: No data available.

Section 4. First Aid Measures

If Inhaled: Remove to fresh air. Get medical attention. If breathing has stopped, give artificial respiration. Treat symptomatically and supportively.

If Swallowed: Wash out with water.

In Case of Skin or Eye Contact: No data available. May cause irritation; flush with copious amounts of freely flowing running water. If irritation persists, seek medical care.

Skin Absorption: Limited available data indicates that Plasmid DNA is not absorbed across intact skin.

If Injected: No data available



Product: Plasmid DNA
Rev. No:
Page 2 of 3

MATERIAL SAFETY DATA SHEET

Medical Conditions Aggravated by Exposure: No data available.

Section 5. Fire Fighting Measures

Flash Point: No data available

Flammable Limits: n/a

Extinguishing Media: Use water spray, CO₂, ABC dry chemical or foam.

Special Fire Fighting Materials: No special procedures.

Unusual Fire and Explosion Hazards: No data available.

Section 6. Accidental Release Measures

Plasmid DNA is not a hazardous material as defined by the U.S. EPA. No data available. Wear gloves to clean up a spill. No other special procedures should be necessary.

Section 7. Handling and Storage

No special safety precautions are required. For product quality assurance, vials must be stored in a 2 - 8 °C (36 - 46 °F) refrigerator.

Should refrigeration be unavailable, Plasmid DNA can be stored at 25 °C (77 °F) for a period of up to 30 days. DO NOT EXPOSE TO HIGH TEMPERATURES.

Section 8. Exposure Control / Personal Protection

Wear gloves, lab coat, and safety glasses to prevent skin and eye contact.

Section 9. Physical and Chemical Properties

Molecular Formula: Deoxyribonucleic acid

Molecular Weight: Varies

Appearance/Odor: white/tan fibers

Solubilities: Soluble in water

Boiling Point: Not determined

Melting Point: Not determined

Vapor Pressure (mm HG): N/A

Vapor Density (Air = 1): N/A

Specific Gravity (H₂O = 1): N/A

pH: See data sheet

Section 10. Stability and Reactivity

Plasmid DNA is Stable

Hazardous Polymerization: Will Not Occur

Incompatible Materials: No data available

Conditions to Avoid: No special safety precautions required.

Hazard Decomposition Products: No data available.



Product: Plasmid DNA
Rev. No:
Page 3 of 3

MATERIAL SAFETY DATA SHEET

Section 11. Toxicology Information

THE CHEMICAL, PHYSICAL AND TOXICOLOGICAL PROPERTIES OF PLASMID DNA HAVE NOT BEEN THOROUGHLY INVESTIGATED.

Refer to Section 3.

Section 12. Ecological Information

No data available. Plasmid DNA is not a regulated hazardous material.

Section 13. Disposal Considerations

Plasmid DNA is not a regulated hazardous material. Follow federal, state and local environmental regulations for disposal of prescription drugs.

Section 14. Transport Information

DOT Proper Shipping Name: n/a
Hazard Class: n/a
ID #: n/a

Section 15. Regulatory Information

MSDS Created: November 22, 2006
Revised: July 16, 2008
Prepared By: Richard G. Smith
Quality Assurance

DISCLAIMER: The above mentioned data are based on Lofstrand's best present knowledge of this product. Lofstrand cannot guarantee completeness or accuracy of the information contained herein, and disclaims all liability for incompleteness or inaccuracy of the information and for any claims of damages arising from handling or use of this product.