

Material Safety Data Sheet

Date Created	07/10/2009
Date Updated	08/27/2009
Version	1.1

Section 1-Product information

Product name	100 bp DNA Ladder
Product Cat. No.	M102O-100, M102O-500

Section 2-Composition / information on ingredients

Ingredient Name	100 bp DNA Ladder
CAS No.	-
EU Symbol	-
R-Phrases	-

Note: See section 8 for occupational exposure limits and section 11 for LC50/LD50 information.

Section 3- Hazards identification

Primary Hazards and Critical Effects	No specific hazard.
Physical/chemical hazards	Not applicable.
Human health hazards	Not applicable.
Environmental Hazards	Not applicable.

Section 4- First-aid measures

Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin Contact	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
Notes to Medical Doctor	Not available.

Section 5- Fire-fighting measures

Extinguishing Media	Use foam or all purpose dry chemicals to extinguish.
Fire-Fighting Procedures	Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.
Fire/Explosion Hazards	Not applicable.
Hazardous Decomposition Products	Not available.

Section 6- Accidental release measures

Personal precautions	Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (Section 8). Follow all fire fighting procedures (Section 5).
Environmental Precautions and Clean-up Methods	If emergency personnel are unavailable vacuum or carefully scoop up spilled materials and place in an appropriate container for disposal. Avoid creating dusty conditions and prevent wind dispersal. Minimize contact of spilled material with soils to prevent runoff to surface waterways.

Section 7-Handling and storage

Handling	Wash thoroughly after handling.
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area. Store at -20°C.
Packaging materials	Use original container.

Section 8-Exposure controls/personal protection

Occupational Exposure Limits	Not available.
Engineering Controls	No special containment is required. Local exhaust ventilation should be provided.
Personal protective equipment Respiratory System	Use appropriate respiratory protection if there is the potential to exceed the exposure limit(s).
Skin and Body Hands	Work uniform or laboratory coat. Use chemical resistant, impervious gloves. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits). Appropriate techniques should be used to remove potentially contaminated clothing.
Eyes	Safety glasses. Goggles, face shield, or other full-face protection if potential exists for direct exposure to aerosols or splashes.

Section 9- Physical and chemical properties

Flash point	Not available.
-------------	----------------

Section 10- Stability and reactivity

Stability	The product is stable.
Conditions and Materials to avoid	Not available.
Hazardous Decomposition Products	Not available.

Section 11- Toxicological information

Toxicity Data	
Test	Not available.
Result	Not available.
Route	Not available.
Species	Not available.
Routes of Entry	Not available.
Acute Effects	
Inhalation	Not available.
Ingestion	Not available.
Skin Contact	Not available.
Eye Contact	Not available.
Chronic Effects	
Adverse Effects	Not available.
Target Organs	Not available.
Carcinogenic Effects	Not available.

Mutagenic Effects	Not available.
Developmental and Teratogenic Effects	Not available.
Reproductive Effects	Not available.
Other Information	Repeated or prolonged exposure is not known to aggravate medical condition.

Section 12- Ecological information

Ecotoxicity Data	
Species	Not available.
Period	Not available.
Result	Not available.

Section 13- Disposal considerations

Waste Handling and Disposal	Waste must be disposed of in accordance with federal, state and local environmental control regulations.
-----------------------------	--

Section 14- Transport information

Air	
IATA-DGR Class	Not controlled under IATA.
Packing Group	

Section 15- Regulatory information

EU Regulations	
Hazard Symbol(s)	-
Risk Phrases	This product is not classified according to the EU regulations.
Safety Phrases	Not applicable.
U.S. Regulations	
Haz-Com Standard	Not controlled under the HCS (United States).
EPA	Not available.
State	Not available.
Canadian Regulations	
WHMIS	Not controlled under WHMIS (Canada).
CEPA	No products were found.
Provincial	No products were found.

Section 16- Other information

GenScript corporation MSDS is believed to be correct but only used as a guide for experienced personnel, GenScript shall not be held liable for any damage resulting from the handling or from contact with the above product.