

Latest revision date: September 2020

Revision: 1

SDS prepared by: Amplyus

SECTION 1 — IDENTIFICATION

Product name: Fast DNA ladder 1

Catalog or product number: RG-1003-01

Product use: This product is for education and research use only

Supplier:

Amplyus LLC

1770 Massachusetts Avenue, Suite 167

Cambridge, MA 02140

Phone: 1-781-990-8727

Fax: 888-317-0512

CHEMTREC Emergency Telephone Number: 1-800-262-8200

SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Not a dangerous substance or mixture according to the Global Harmonized System (GHS)

Hazard statement(s): Product contains No substances which at their given concentration, are considered to be hazardous to health.

Precautionary statement(s): Use personal protective equipment as required; do not eat, drink, or smoke when using this product; wash hands thoroughly after handling.

Hazards not otherwise classified: N/A

SECTION 3 — COMPOSITION/INFORMATION ON INGREDIENTS

| Ingredients | Composition | CAS Number |
|--|-------------|------------|
| Tris-HCL | 1.5 mM | 1185-53-1 |
| Bromophenol blue | 0.005% | 34725-61-6 |
| Glycerol | 10% | 56-81-5 |
| EDTA (Ethylenediaminetetraacetic acid) | 10 mM | 60-00-4 |
| DNA fragments | 35 ng/μl | |

SECTION 4 — FIRST AID MEASURES

General information: No special measures required

Eye contact: Flush opened eye immediately with plenty of water. If irritation persists, get medical attention.

Skin contact: Wash off immediately with plenty of soap and water. If irritation develops, get medical attention.

Inhalation: Move to fresh air. If breathing becomes difficult, call a physician.

Ingestion: Rinse mouth with water. Seek medical attention and appropriate follow-up.

SECTION 5 — FIRE-FIGHTING MEASURES

Conditions of flammability: Not flammable

Suitable extinguishing media: Dry chemical, CO₂, water spray, or alcohol resistant foam

Special protective equipment for firefighters: Wear self-contained breathing apparatus for fire-fighting if necessary

Hazardous combustion products: N/A

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Personal precautions: Prevent skin/eye contact. Wear personal protective equipment as needed.

Environmental precautions: No special measures required.

Methods and materials for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust).

SECTION 7 — HANDLING AND STORAGE

Precautions for safe handling: No special measures required.

Conditions for safe storage: No special measures required. Store at -20°C

Incompatible products: N/A

SECTION 8 — EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering controls: Not required. General room ventilation is adequate for use of this product

Personal protective measures: Wash hands thoroughly after handling. Do not eat, drink or smoke when handling this product.

Personal protective equipment:

- **Skin protection:** protective gloves, appropriate protective clothing
- **Eye protection:** safety glasses

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Form: solution

Color: blue

Odor: No data available

Odor threshold: No data available

pH: ~7.6

Melting point/freezing point: No data available

Boiling point: No data available

Flash point: No data available

Evaporation rate: f No data available

Ignition temperature: No data available

Autoignition temperature: No data available

Lower explosion limit: No data available

Upper explosion limit: No data available

Vapor pressure: No data available

Vapor density: No data available

Relative density (water = 1): No data available

Water solubility: No data available

Partition coefficient (n-octanol/water): No data available

Viscosity: No data available

SECTION 10 — STABILITY AND REACTIVITY

Chemical stability: Stable under recommended storage conditions

Incompatible materials to avoid: Strong acids or bases, strong oxidizers

Hazardous decomposition products: N/A

SECTION 11 — TOXICOLOGICAL INFORMATION

Effects of acute exposure: May cause skin irritation, may cause eye irritation, may irritate mucous membranes and upper respiratory tract

LD/LC50 values: No data available

Respiratory or skin sensitization: No data available

Germ cell mutagenicity: No data available

Reproductive toxicity: No data available

Teratogenicity: No data available

Carcinogenicity: No components of this product are listed by IARC, NTP, or OSHA

SECTION 12 — ECOLOGICAL INFORMATION

Toxicity: No data available

Persistence and degradability: No data available

Bioaccumulative potential: No data available

Mobility in soil: No data available

PBT assessment: No data available

vPvB assessment: No data available

Other adverse effects: None known

SECTION 13 — DISPOSAL CONSIDERATIONS

Product: Dispose of waste in accordance with applicable national, regional, or local regulations. Do not allow product to reach ground water, water course, or sewage system

Contaminated packaging: Dispose of packaging in accordance with applicable national, regional, or local regulations

SECTION 14 — TRANSPORT INFORMATION

This substance is considered to be non-hazardous for transport

SECTION 15 — REGULATORY INFORMATION

SARA 302/304 (40CFR355.30/40CFR355.40): This material does not contain any components with a section 302 EHS TPQ or a section 304 EHS RQ

SARA 313: Substance not listed

SARA 311/312: No SARA hazards

California Proposition 65: Substance not listed

Massachusetts right to know: Substance not listed

SECTION 16 — OTHER INFORMATION

This information is based on our present knowledge and shall be used only as a guide. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Amplyus LLC is not held liable for any damage resulting from handling or from contact with the above mentioned products.