1  Identification of the substances/ mixture and of the company/ undertaking

1.1 Product Identifiers
   - Product Number: MBT130
   - Product Name: 100 bp DNA Ladder M

1.2 Relevant identified uses of the substance or mixture and uses advised against
   - Relevant identified uses: For Laboratory Use

1.3 Details of the supplier of the safety data sheet
   - Produced by: HiMedia Laboratories Private Limited
   - Address: 23, Vadhani Industrial Estate, LBS Marg, Ghatkopar (W), Mumbai - 400 086 India
   - Tel. No.: +91-22-2500 0970, +91-22-2500 1607
   - Fax No.: +91-22-25002468
   - Mail Id: mb@himedialabs.com
   - Website: www.himedialabs.com

1.4 Emergency Tel. No.
   - Emergency Tel. No.: Please contact the regional HiMedia representation in your country

2  Hazards Identification

2.1 Classification of the substance or mixture
   - CLP Classification-Regulation (EC) No. 1272/2008[EU-GHS/CLP]
   - Not a hazardous substance or mixture according to Regulation (EC) No.1272/2008

2.2 Label elements
   - Labeling according to Regulation (EC) No.1272/2008
   - The product does not need to be labelled according to Regulation (EC) No. 1272/2008.

2.3 Other Hazards
   - This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

3  Composition/Information On Ingredients
   - All ingredients in this mixture are nonhazardous.

4  First Aid Measures

4.1 Description of first aid measures
   - General advice
     - Consult a physician. Show this safety data sheet to the doctor in attendance.
   - If inhaled
     - If breathed in, move person into fresh air. Consult a physician.
   - In case of skin contact
     - If skin irritation occurs, get medical advice/attention.
   - In case of eye contact

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Rinse out with plenty of water with the eyelid held wide open. Flush with running water for at least 15 minutes. Consult a physician.

**If swallowed**
Rinse mouth with water. Consult a physician.

### 4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11.

### 4.3 Indication of immediate medical attention and special treatment needed
Treat symptomatically.

### 5 Fire Fighting Measures

#### 5.1 Extinguishing media
**Suitable extinguishing media**
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Unsuitable extinguishing media**

#### 5.2 Special hazards arising from the substance or mixture
Carbon oxides, nitrogen oxides (NOx), Sulphur oxides

#### 5.3 Precautions for fire-fighters
Wear self contained breathing apparatus for fire fighting if necessary

#### 5.4 Further information
No data available

### 6 Accidental Release Measures

#### 6.1 Personal precautions, protective equipment and emergency procedures
Wear disposable gloves, dust mask and eye protection. Ensure adequate ventilation.

#### 6.2 Environmental precautions
No special environmental precautions required.

#### 6.3 Methods and materials for containment and cleaning up
Soak up with inert absorbent material. Ventilate area and wash spill site after material pick up is complete.

#### 6.4 Reference to other sections
For disposal see Section 13.

### 7 Handling and Storage

#### 7.1 Precautions for safe handling
For precautions see section 2.2.

#### 7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

**Recommended Storage Temperature :** - 20°C

#### 7.3 Specific end uses
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.
8 Exposure Controls/Personal Protection

8.1 Control parameters
Components with workplace control parameters

8.2 Exposure controls

Appropriate engineering controls
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the products.

Personal protective equipment

Eye/face protection
Tightly fitting safety goggles; Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove’s outer surface) to avoid skin contact with this product. Dispose contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body protection
Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Environment exposure controls
No special environmental precautions required.

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Liquid</td>
</tr>
<tr>
<td>Odour</td>
<td>Odorless</td>
</tr>
<tr>
<td>Odour Threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>No data available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (Solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>No data available</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Miscible in water</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour density</td>
<td>No data available</td>
</tr>
<tr>
<td>Thermal decomposition</td>
<td>No data available</td>
</tr>
</tbody>
</table>

9.2 Other safety information
10  Stability and Reactivity
10.1 Reactivity
No data available
10.2 Chemical stability
Stable under recommended storage conditions.
10.3 Possibility of hazardous reactions
Hazardous polymerization does not occur
10.4 Conditions to avoid
No data available
10.5 Incompatible materials
No data available
10.6 Hazardous decomposition products
Other Decomposition products not known.

11  Toxicological Information
11.1 Information on toxicological effects
Acute toxicity
No data available
Skin corrosion/irritation
No data available
Serious eye damage/eye irritation
No data available
Respiratory or skin sensitisation
No data available
Germ cell mutagenicity
No data available
Carcinogenicity
No data available
Reproductive toxicity
No data available
Specific target organ toxicity- single exposure
No data available
Aspiration hazard
No data available
Potential Health Effects
Inhalation
REFER SECTION 2
Skin
REFER SECTION 2
Eyes
REFER SECTION 2
Ingestion
REFER SECTION 2
Additional Information
RTECS : Not Applicable

12 Ecological Information
12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 PBT and vPvB assessment
This preparation contains no substance considered to be persistent, bioaccumulating or toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

13 Disposal Considerations
13.1 Waste treatments methods
Product
Dispose of as unused product.

13.2 Contaminated packaging
Dispose in accordance with all applicable federal, state, and local environmental regulations.

14 Transport Information
14.1 UN-No
ADNR : ADR : IATA_C : IATA_P : IMDG : RID :

14.2 UN proper shipping name
ADNR : Not dangerous goods
ADR : Not dangerous goods
IATA_C : Not dangerous goods
IATA_P : Not dangerous goods
IMDG : Not dangerous goods
RID : Not dangerous goods

14.3 Transport hazard class(es)
ADNR : - ADR : - IATA_C : - IATA_P : - IMDG : - RID : -

14.4 Packaging group
ADNR : ADR : IATA_C : IATA_P : IMDG : RID :

14.5 Environmental hazards
ADNR : No ADR : No IMDG : Marine Pollutant : NO IATA_C : No IATA_P : No RID : No
14.6 Special precautions for use
No data available

15 Regulatory Information
15.1 Safety health and environment regulations/legislation specific for the substance or mixture
No data available
15.2 Chemical Safety Assessment
No data available

16 Other information

Further Information

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