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

1.1 Product Identifiers

<table>
<thead>
<tr>
<th>Product Number</th>
<th>MB502</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Name</td>
<td>HiPurA® Plant DNA Isolation Kit (CTAB Method)</td>
</tr>
<tr>
<td>REACH Registration Number</td>
<td>Reach registration number is not available for this mixture. The annual tonnage does not require a REACH registration or it is envisaged for a later registration deadline.</td>
</tr>
</tbody>
</table>

1.2 Relevant identified uses of the substance or mixture and uses advised against

1.2.1 Relevant identified uses

- Laboratory chemicals
- Manufacture of substances

1.3 Details of the supplier of the safety data sheet

<table>
<thead>
<tr>
<th>Produced by</th>
<th>HiMedia Laboratories Private Limited</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address</td>
<td>23, Vadhani Industrial Estate, LBS Marg, Ghatkopar (W), Mumbai - 400 086 India</td>
</tr>
<tr>
<td>Tel. No.</td>
<td>+91-22-2500 0970, +91-22-2500 1607 Fax No. : +91-22-25002468</td>
</tr>
<tr>
<td>Mail Id</td>
<td><a href="mailto:mb@himedialabs.com">mb@himedialabs.com</a> Website : <a href="http://www.himedialabs.com">www.himedialabs.com</a></td>
</tr>
</tbody>
</table>

1.4 Emergency Tel. No.

| Emergency Tel. No. | Please contact the regional HiMedia representation in your country |

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2 Hazards Identification

2.1 Classification of the substance or mixture

**CLP Classification-Regulation (EC) No. 1272/2008 [EU-GHS/CLP]**

- Acute toxicity, Oral, (Category 4), H302
- Skin corrosion or irritation, (Category 2), H315
- Serious eye damage or eye irritation, (Category 1), H318
- Serious eye damage or eye irritation, (Category 2A), H319
- Specific target organ toxicity, single exposure, Respiratory tract irritation, (Category 3), H335
- Hazardous to the aquatic environment, long term hazard, (Category 1), H410

For the full text of the H-Statements mentioned in this Section, See Section 16

2.2 Label elements

**Labeling according to Regulation (EC) No.1272/2008**

<table>
<thead>
<tr>
<th>Pictogram</th>
<th>Signal word</th>
<th>Hazard Statement(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Danger</td>
<td>H302 Harmful if swallowed</td>
</tr>
<tr>
<td></td>
<td></td>
<td>H315 Causes skin irritation</td>
</tr>
<tr>
<td></td>
<td></td>
<td>H318 Causes serious eye damage</td>
</tr>
</tbody>
</table>
H319 Causes serious eye irritation
H335 May cause respiratory irritation
H410 Very toxic to aquatic life with long lasting effects

Precautionary Statement(s)

P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312+P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/physician.

2.3 Other Hazards
None

3 Composition/Information On Ingredients

3.2 Mixture

<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDTA disodium salt dihydrate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAS No.: 6381-92-6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EC No.: 205-358-3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Molecular Formula: C₁₀H₁₄N₂Na₂O₈.2H₂O</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Classification</td>
<td>As Per EC Regulation 1272/2008</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Eye Irrit. 2A H319</td>
<td></td>
</tr>
<tr>
<td>Concentration</td>
<td>&gt;=1 - &lt;=10%</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTAB, For Molecular Biology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAS No.: 57-09-0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EC No.: 200-311-3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Molecular Formula: C₁₉H₄₂BrN</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Molecular Weight: 364.45</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Classification</td>
<td>As Per EC Regulation 1272/2008</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Acute Tox.oral 4; Skin Irrit. 2; Eye Dam. 1; STOT SE 3; Aquatic Chronic 1 H302; H315; H318; H335; H410</td>
<td></td>
</tr>
<tr>
<td>Concentration</td>
<td>&gt;=95 - &lt;=100%</td>
<td></td>
</tr>
</tbody>
</table>

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. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash with plenty of soap and water. Consult a physician.

In case of eye contact
Rinse immediately with plenty of water for at least 15 minutes. Consult a physician.

If swallowed
Never give anything by mouth to an unconscious person. 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
No data available.

5.2 Special hazards arising from the substance or mixture
No data available.

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 respiratory protection. Avoid breathing vapours, mist or gas. Wear disposable gloves, dust mask and eye protection.

6.2 Environmental precautions
No special environmental precautions required.

6.3 Methods and materials for containment and cleaning up
Soak up with inert adsorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal. Clean up affected area. Flush spill area with water.

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
Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Recommended Storage Temperature: Store between 15-25°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

Hygiene measure
Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with the product.

Eye / face protection
Tightly fitting safety goggles; Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards 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>No data available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odour</td>
<td>No data available</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>Melting/freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>No data available</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</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>
</tbody>
</table>
Water Solubility: No data available
Partition coefficient: n-octanol/water: No data available
Autoignition Temperature: No data available
Decomposition Temperature: No data available
Viscosity: No data available
Vapour density: No data available
Thermal decomposition: No data available

9.2 Other safety information
No data available

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
No data available
10.4 Conditions to avoid
No data available
10.5 Incompatible materials
No data available
10.6 Hazardous decomposition products
Other Decomposition products. No Data Available

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
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
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

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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
No data available

12.6  Other adverse effects
No data available

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13  Disposal Considerations

13.1  Waste treatments methods

**Product**
Offer surplus and non-recyclable solutions to a licenced company.

13.2  Contaminated packaging
Dispose of as unused product.

---

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
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

H302 Harmful if swallowed
H315 Causes skin irritation
H318 Causes serious eye damage
H319 Causes serious eye irritation
H335 May cause respiratory irritation
H410 Very toxic to aquatic life with long lasting effects
Acute tox.oral 4 Acute toxicity, oral, Category 4
Aquatic Chronic 1 Hazardous to the aquatic environment, long term hazard, Category 1
Eye Dam. 1 Serious eye damage or eye irritation, Category 1
Eye Irrit. 2A Serious eye damage or eye irritation, Category 2A
Skin Irrit. 2 Skin corrosion or irritation, Category 2
STOT SE 3 Specific target organ toxicity, single exposure, Respiratory tract irritation, Category 3

Further Information

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