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

1.1 Product Identifiers

Product Number  HTBM009
Product Name  HiPer® Bacterial Genomic DNA Extraction Teaching Kit (Solution Based)
REACH Registration Number  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.

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

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

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]

Flammable solids, (Category 1), H228
Acute toxicity, Oral, (Category 4), H302
Skin corrosion or irritation, (Category 2), H315
Serious eye damage or eye irritation, (Category 1), H318
Acute toxicity, Inhaled, (Category 4), H332
Sensitisation, respiratory, (Category 1), H334
Specific target organ toxicity, single exposure, Respiratory tract irritation, (Category 3), H335
Hazardous to the aquatic environment, long term hazard, (Category 3), H412

2.2 Label elements

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

Pictogram
Signal word  Danger
Hazard Statement(s)
H228  Flammable solid
H302  Harmful if swallowed
H315 Causes skin irritation
H318 Causes serious eye damage
H332 Harmful if inhaled
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335 May cause respiratory irritation
H412 Harmful to aquatic life with long lasting effects

Precautionary Statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P273 Avoid release to the environment.
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.
P304 + P340 IF INHALED: Remove person to fresh air and Keep comfortable for breathing.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 IF eye irritation persists: Get medical advice/attention.
P342 + P311 IF experiencing respiratory symptoms: call a POISON CENTER or doctor/physician.

2.3 Other Hazards
None

3 Composition/Information On Ingredients

<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Propanol, For Molecular Biology</td>
<td>As Per EC Regulation 1272/2008</td>
<td>&gt;=99 - &lt;=100%</td>
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<tr>
<td>CAS No. : 67-63-0</td>
<td>Flam. Liq. 2; Eye Irrit. 2A; STOT SE 3</td>
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<tr>
<td>EC No. : 200-661-7</td>
<td>H225; H319; H336</td>
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<td>Index-No : 603-117-00-0</td>
<td></td>
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<td></td>
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<tr>
<td>Molecular Weight : 60.10</td>
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<tr>
<td>Guanidine hydrochloride</td>
<td>As Per EC Regulation 1272/2008</td>
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<tr>
<td>CAS No. : 50-01-1</td>
<td>Acute Tox.oral 4; Skin Irrit. 2; Eye Irrit. 2A; Acute Tox.inhal. 4</td>
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<td>EC No. : 200-002-3</td>
<td>H302; H315; H332</td>
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<td>Index-No : 607-148-00-0</td>
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<tr>
<td>Molecular Formula : CH₅N₃.HCl</td>
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Page 2 of 8
Molecular Weight : 95.53

<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration</th>
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</thead>
<tbody>
<tr>
<td>Lauryl sulphate sodium salt, For Molecular Biology</td>
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<td>CAS No. : 151-21-3</td>
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<td>Molecular Formula : C₁₂H₂₅NaO₄S</td>
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<td>Proteinase K</td>
<td>As Per EC Regulation 1272/2008</td>
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<td>CAS No. : 39450-01-6</td>
<td>EC No. : 254-457-8</td>
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<tr>
<td>Index-No : 647-014-00-9</td>
<td>Molecular Weight : 28.93 KDA</td>
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</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 off with soap and plenty of 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
5.2 Special hazards arising from the substance or mixture
Nature of decomposition products not known.

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
Use personnel protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. For personal protection see section 8.

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.

6.4 Reference to other sections
For disposal see Section 13.

7  Handling and Storage
7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. 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. Storage class (TRGS 510): Non Combustible Liquids

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
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 of 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**
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

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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>
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<tbody>
<tr>
<td>Odour</td>
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</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>
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</tr>
<tr>
<td>Water Solubility</td>
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<tr>
<td>Autoignition Temperature</td>
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</tr>
<tr>
<td>Decomposition Temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No data available</td>
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<tr>
<td>Explosive properties</td>
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<tr>
<td>Oxidizing properties</td>
<td>No data available</td>
</tr>
</tbody>
</table>

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**
10.5 **Incompatible materials**
No data available

10.6 **Hazardous decomposition products**
In the event of fire. Refer section 5

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

*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**
No data available

12.6 **Other adverse effects**
No data available
13  Disposal Considerations
13.1 Waste treatments methods
   Product
   Offer surplus and non-recyclable solutions to a licenced disposal 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
   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

   H225 Highly Flammable liquid and vapour
   H228 Flammable solid
   H302 Harmful if swallowed
   H311 Toxic in contact with skin
   H315 Causes skin irritation
   H319 Causes serious eye irritation
   H332 Harmful if inhaled
H334  May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335  May cause respiratory irritation
H336  May cause drowsiness or dizziness
Acute Tox. dermal. 3  Acute toxicity, dermal, Category 3
Acute Tox.inhal. 4  Acute toxicity, inhaled, Category 4
Acute Tox.oral 4  Acute toxicity, oral, Category 4
Eye Irrit. 2A  Serious eye damage or eye irritation, Category 2A
Flam. Liq. 2  Flammable liquids, Category 2
Flam. Sol. 1  Flammable solids, Category 1
Resp. Sens. 1  Sensitisation, respiratory, Category 1
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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The information given in this safety data sheet is believed to be correct yet does not claim to be all inclusive. This document is intended only as a guide for appropriate precautionary handling of the material by properly trained individuals, information here being commensurate with the present state of our knowledge regarding the manner and conditions of use, handling, storage or disposal. The information provided herein shall not be considered as guarantee of the properties of the product. HiMedia Laboratories, shall not be held liable for any damage resulting from improper handling or contact with the above product. Unless explicitly stated on the product or in any of the documentation accompanying the product, it is intended for research or testing purpose only and is not to be used for any other purpose.