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

1.1 Product Identifiers
- **Product Number**: ML094
- **Product Name**: 1M Calcium chloride Solution
- **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
- **Website**: www.himedialabs.com

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

Hazards Identification

2.1 Classification of the substance or mixture
- **CLP Classification-Regulation (EC) No. 1272/2008[EU-GHS/CLP]**
  - Serious eye damage or eye irritation, (Category 2A), H319

2.2 Label elements
- **Labeling according to Regulation (EC) No.1272/2008**

![Pictogram]
- **Signal word**: Warning
- **Hazard Statement(s)**
  - H319 Causes serious eye irritation
- **Precautionary Statement(s)**
  - P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium chloride, dihydrate</td>
<td>As Per EC Regulation 1272/2008</td>
<td>&gt;=10 - &lt;=20%</td>
</tr>
<tr>
<td>CAS No.: 10035-04-8</td>
<td>Eye Irrit. 2A H319</td>
<td></td>
</tr>
<tr>
<td>EC No.: 233-140-8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Molecular Formula: CaCl₂.2H₂O</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Molecular Weight: 147.01</td>
<td></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 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
No data available.

5.2 Special hazards arising from the substance or mixture
Hydrogen chloride gas, Calcium oxide

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: 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).

**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>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>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>No data available</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>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No data available</td>
</tr>
</tbody>
</table>

| 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**

Strong oxidizing agents

**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
    H319 Causes serious eye irritation
    Eye Irrit. 2A Serious eye damage or eye irritation, Category 2A

Further Information

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