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

1.1 **Product Identifiers**
- **Product Number**: R085
- **Product Name**: HiDecal (Strong decalcifying solution)
- **REACH Registration Number**: This product is a mixture. Reach registration number is not available for this mixture.

1.2 **Relevant identified uses of the substance or mixture and uses advised against**
1.2.1 **Relevant identified uses**: Laboratory Chemicals, Analytical Purpose, Biochemical Analysis

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**: info@himedialabs.com
- **Website**: www.himedialabs.com

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]**
  - Skin corrosion or irritation, (Category 2), H315
  - Sensitisation, Skin, (Category 1), H317
  - Serious eye damage or eye irritation, (Category 2A), H319
  - Specific target organ toxicity, single exposure, Respiratory tract irritation, (Category 3), H335
  - Carcinogenicity, (Category 2), H351
  - Corrosive to metals, (Category 1), H290
  - Acute toxicity, Oral, (Category 4), H302

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

  ![Pictogram](Image)

  **Signal word**: Warning

  **Hazard Statement(s)**
  - H315: Causes skin irritation
  - H317: May cause an allergic skin reaction
  - H319: Causes serious eye irritation
H335  May cause respiratory irritation
H351  Suspected of causing cancer
H290  May be corrosive to metals
H302  Harmful if swallowed

Precautionary Statement(s)
P261  Avoid breathing dust/fume/gas/mist/vapours/spray.
P280  Wear protective gloves/protective clothing/eye protection/face protection.
P201  Obtain special instructions before use.
P308 + P313  IF exposed or concerned: Get medical advice/attention.
P302 + P352  IF ON SKIN: wash with plenty of soap and water.
P305+P351+P338  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333  If skin irritation or rash occurs:
P337 + P313  IF eye irritation persists: Get medical advice/attention.
P390  Absorb spillage to prevent material damage.
P301 + P312  IF SWALLOWED: call a POISON CENTER or doctor/physician IF you feel unwell.

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>Formic acid</td>
<td>As Per EC Regulation 1272/2008</td>
<td>&gt;=5 - &lt;=15%</td>
</tr>
<tr>
<td>CAS No. : 64-18-6</td>
<td>Flam. Liq. 3; Acute Tox.oral 4; Skin Corr. 1A; Acute Tox. inhal. 3</td>
<td>H226; H302; H314; H331</td>
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<tr>
<td>EC No. : 200-579-1</td>
<td></td>
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<tr>
<td>Molecular Formula : CH2O2</td>
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</table>

<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrochloric Acid</td>
<td>As Per EC Regulation 1272/2008</td>
<td>&gt;=5 - &lt;=15%</td>
</tr>
<tr>
<td>CAS No. : 7647-01-0</td>
<td>Skin Corr. 1B; STOT SE 3 H314; H335</td>
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</tr>
<tr>
<td>EC No. : 231-595-7</td>
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<tr>
<td>Index-No : 017-002-01-X</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Refer Section 16 for complete statement of H codes & classification.

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**
No data available.

4.3 **Indication of immediate medical attention and special treatment needed**
No data available.

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**
Nature of decomposition products unknown

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. Ensure adequate ventilation. Evacuate personnel to safe areas.

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

6.3 **Methods and materials for containment and cleaning up**
Soak up with inert absorbent material. 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. Normal measures for preventive fire protection.

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**: On receipt store between 10-30°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*

*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**
Do not empty into drains.

9 **Physical and chemical properties**

9.1 **Information on basic physical and chemical properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Colorless, clear solution</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>
</tbody>
</table>
**9.2 Other safety information**
No data available

---

**10 Stability and Reactivity**

**10.1 Reactivity**
No data available

**10.2 Chemical stability**
No data available

**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**
Refer Section 5.2

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**11 Toxicological Information**

**11.1 Information on toxicological effects**

**Acute toxicity**
No data available

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**Carcinogenicity**
No data available

**Specific target organ toxicity - single exposure**
No data available

**Potential Health Effects**
**Inhalation**
REFER SECTION II

**Skin**
REFER SECTION II

**Eyes**
REFER SECTION II

**Ingestion**
REFER SECTION II

### 11.2 Components

**Hydrochloric acid (HCL)**

*Acute Oral Toxicity*
Rabbit LD50: 900 mg/kg

*Acute toxicity of the vapour*
Mouse LC50: 1108 ppm, 1h
Rat LC50: 3124 ppm, 1h

*Carcinogenic Effects*
Classified 3 (Not for human) by IARC.

*Reproductive Toxicity*
Cause adverse reproductive effects.

**Skin**
Causes severe skin irritation and burns.

**Eyes**
Causes severe eye irritation/conjunctivitis.

**Inhalation**
May be fatal if inhaled.

**Ingestion**
May be fatal if swallowed.

**Additional information:**
RTECS: MW4025000

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### 12 Ecological Information

#### 12.1 Toxicity

**Components**

**Hydrochloric acid**

*Ecotoxicity*
No data available.

*Products of Biodegradation*
Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

*Toxicity of the Products of Biodegradation*
The products of degradation are less toxic than the product itself.
12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential

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 a 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
Offer surplus and non-recyclable solutions to a licenced disposal company. Contact a licenced professional waste disposal service to dispose off this material.

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
This safety datasheet complies with the requirements of Regulation(EC) No. 1907/2006.

15.1 Safety health and environment regulations/legislation specific for the substance or mixture

15.2 Chemical Safety Assessment
16 Other information
Text of H codes and classification mentioned in section 3
H226 Flammable liquid and vapour
H302 Harmful if swallowed
H314 Causes severe skin burns and eye damage
H331 Toxic if inhaled
H335 May cause respiratory irritation
Acute Tox. inhal. 3 Acute toxicity, inhaled, Category 3
Acute Tox. oral 4 Acute toxicity, oral, Category 4
Flam. Liq. 3 Flammable liquids, Category 3
Skin Corr. 1A Skin corrosion or irritation, Category 1A
Skin Corr. 1B Skin corrosion or irritation, Category 1B
STOT SE 3 Specific target organ toxicity, single exposure, Respiratory tract irritation, Category 3

Further Information

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