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

1.1 Product Identifiers

Product Number: ML083

Product Name: Acrylamide/Bisacrylamide Solution 40% (37.5:1)

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

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

Acute toxicity, Inhaled, (Category 4), H332

Skin corrosion or irritation, (Category 2), H315

Serious eye damage or eye irritation, (Category 2A), H319

Sensitisation, Skin, (Category 1), H317

Germ cell mutagenicity, (Category 1B), H340

Carcinogenicity, (Category 1B), H350

Reproductive toxicity, (Category 2), H361f

Specific target organ toxicity, repeated exposure, (Category 1), H372

2.2 Label elements

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

Pictogram

Signal word: Danger

Hazard Statement(s)

H302+H332: Harmful if swallowed or if inhaled
H315 Causes skin irritation
H317 May cause an allergic skin reaction
H319 Causes serious eye irritation
H340 May cause genetic defects
H350 May cause cancer
H361f Suspected of damaging fertility
H372 Causes damage to organs through prolonged or repeated exposure

Precautionary Statement(s)

P201 Obtain special instructions before use.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313 IF exposed or concerned: Get medical advice/attention.

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>Acrylamide, For Molecular Biology</td>
<td>As Per EC Regulation 1272/2008</td>
<td>&gt;=30 - &lt;=40%</td>
</tr>
<tr>
<td>CAS No. :</td>
<td>79-06-1</td>
<td></td>
</tr>
<tr>
<td>EC No. :</td>
<td>201-173-7</td>
<td></td>
</tr>
<tr>
<td>Molecular Formula :</td>
<td>C₃H₅NO</td>
<td></td>
</tr>
<tr>
<td>Molecular Weight :</td>
<td>71.08</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bis-acrylamide, For Molecular Biology</td>
<td>As Per EC Regulation 1272/2008</td>
<td>&gt;=1 - &lt;=5%</td>
</tr>
<tr>
<td>CAS No. :</td>
<td>110-26-9</td>
<td></td>
</tr>
<tr>
<td>EC No. :</td>
<td>203-750-9</td>
<td></td>
</tr>
<tr>
<td>Molecular Formula :</td>
<td>C₇H₁₀N₂O₂</td>
<td></td>
</tr>
<tr>
<td>Molecular Weight :</td>
<td>154.17</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**
Carbon oxides, Nitrogen oxides (NOx), Ammonia

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 at 2-8°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
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9 Physical and chemical properties
9.1 Information on basic physical and chemical properties
Appearance: Liquid
Odour: No data available
Odour Threshold: No data available
pH No data available
Melting/freezing point No data available
Initial boiling point and boiling range No data available
Flash point No data available
Evaporation rate No data available
Flammability (Solid, gas) No data available
Vapour pressure No data available
Relative density No data available
Water Solubility No data available
Autoignition Temperature No data available
Decomposition Temperature No data available
Viscosity No data available
Explosive properties No data available
Oxidizing properties 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
Acids, Bases, Oxidizing agents, Reducing agents, Iron and iron salts, Copper, Aluminum, Brass, Free radical initiators
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 : 3426 ADR : 3426 IATA_C : 3426 IATA_P : 3426 IMDG : 3426 RID : 3426

14.2  UN proper shipping name
ADNR  :  Acrylamide solution
ADR   :  Acrylamide solution
IATA_C :  Acrylamide solution
IATA_P :  Acrylamide solution
IMDG : Acrylamide solution
RID : Acrylamide solution

14.3 Transport hazard class(es)

14.4 Packaging group

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

H301 Toxic if swallowed
H302 Harmful if swallowed
H312+H332 Harmful in contact with skin or if inhaled
H315 Causes skin irritation
H317 May cause an allergic skin reaction
H319 Causes serious eye irritation
H332 Harmful if inhaled
H340 May cause genetic defects
H350 May cause cancer
H361f Suspected of damaging fertility
H372 Causes damage to organs through prolonged or repeated exposure
Acute Tox. Oral, dermal, inhal, 4 Harmful if swallowed, in contact with skin or if inhaled
Acute Tox.inhal. 4 Acute toxicity, inhaled, Category 4
Acute Tox.oral 4 Acute toxicity, oral, Category 4
Acute Tox.oral. 3 Acute toxicity, oral, Category 3
Carc. 1B Carcinogenicity, Category 1B
Eye Irrit. 2A Serious eye damage or eye irritation, Category 2A
Mut. 1A, 1B Germ cell mutagenicity, Category 1A, 1B
Repr. 2 Reproductive toxicity, Category 2
Skin Irrit. 2 Skin corrosion or irritation, Category 2
Skin Sens. 1 Sensitisation, Skin, Category 1
STOT RE 1 Specific target organ toxicity, repeated exposure, Category 1

Further Information
Copyright 2016 HiMedia Laboratories Pvt. Ltd.
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.