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

1.1 Product Identifiers
Product Number  ML036
Product Name  Acrylamide/ Bis-acrylamide solution 30% (19:1)
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
Sensitisation, Skin, (Category 1), H317
Serious eye damage or eye irritation, (Category 2A), H319
Germ cell mutagenicity, (Category 1B), H340
Carcinogenicity, (Category 1B), H350i
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.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P304 + P340 IF INHALED: Remove victim to fresh air and Keep at rest in a position 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.
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>
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<th>Concentration</th>
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<tr>
<td>Acrylamide</td>
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<td>&gt;=15 - &lt;=25%</td>
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<tr>
<td>CAS No.:</td>
<td>79-06-1</td>
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<tr>
<td>EC No.:</td>
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<tr>
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<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bis-acrylamide</td>
<td>As Per EC Regulation 1272/2008</td>
<td>&gt;=1 - &lt;=5%</td>
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<tr>
<td>CAS No.:</td>
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<td>EC No.:</td>
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<tr>
<td>Molecular Formula :</td>
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<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 Firing 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

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 : 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 saftey 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

<table>
<thead>
<tr>
<th>Property</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Liquid</td>
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<tr>
<td>Odour</td>
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</tr>
<tr>
<td>Odour Threshold</td>
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</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting/freezing point</td>
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</tr>
<tr>
<td>Initial boiling point and boiling range</td>
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</tr>
<tr>
<td>Flash point</td>
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</tr>
<tr>
<td>Evaporation rate</td>
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<tr>
<td>Flammability (Solid, gas)</td>
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<tr>
<td>Vapour pressure</td>
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<td>Relative density</td>
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<tr>
<td>Water Solubility</td>
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<tr>
<td>Autoignition Temperature</td>
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</tr>
<tr>
<td>Decomposition Temperature</td>
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<tr>
<td>Viscosity</td>
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<tr>
<td>Explosive properties</td>
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<tr>
<td>Oxidizing properties</td>
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<tr>
<td>Vapour density</td>
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<tr>
<td>Thermal decomposition</td>
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<td>No data available</td>
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<tr>
<td>Vapour density</td>
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</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
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    Harmful in contact with skin
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. dermal. 4    Acute toxicity, dermal, Category 4
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. 1A, 1B            Carcinogenicity, Category 1A, 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

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