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

1.1 Product Identifiers

- **Product Number**: S015
- **Product Name**: Lactophenol
- **CAS No.**: 108-95-2
- **Index-No**: 604-001-00-2
- **EC No.**: 203-632-7
- **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
- For In Vitro Diagnostic Use

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

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 1A), H314
- Germ cell mutagenicity, (Category 2), H341
- Specific target organ toxicity, repeated exposure, (Category 2), H373
- Hazardous to the aquatic environment, long term hazard, (Category 2), H411

2.2 Label elements

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

- **Pictogram**
- **Signal word**: Danger
- **Hazard Statement(s)**

H302 Harmful if swallowed
H332 Harmful if inhaled
H314 Causes severe skin burns and eye damage
H341 Suspected of causing genetic defects
H373 May cause damage to organs through prolonged or repeated exposure
H411 Toxic to aquatic life with long lasting effects

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.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
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.
P273 Avoid release to the environment.

2.3 Other Hazards
None

3 Composition/Information On Ingredients
3.2 Mixture

<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lactic acid</td>
<td>As Per EC Regulation 1272/2008</td>
<td>&gt;=20.0 - &lt;=30.0%</td>
</tr>
<tr>
<td>CAS No. : 50-21-5</td>
<td>Skin Irrit. 2; Eye Dam. 1 H315; H318</td>
<td></td>
</tr>
<tr>
<td>EC No. : 200-018-0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phenol</td>
<td>As Per EC Regulation 1272/2008</td>
<td>&gt;=20.0 - &lt;=30.0%</td>
</tr>
<tr>
<td>CAS No. : 108-95-2</td>
<td>Acute Tox.oral. 3; Acute Tox. dermal. 3; Skin Corr. 1B; Acute Tox. inhal. 3; Muta. 2; STOT RE 2</td>
<td></td>
</tr>
<tr>
<td>EC No. : 203-632-7</td>
<td>H301; H311; H314; H331; H341; H373; H411</td>
<td></td>
</tr>
<tr>
<td>Index-No : 604-001-00-2</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**
Carbon 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**
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**
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**
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>Colourless to amber coloured 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>
Flash point: No data available
Flammability (Solid, gas): No data available
Vapour pressure: No data available
Relative density: No data available
Water Solubility: No data available
Partition coefficient: n-octanol/water: No data available
Autoignition 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
No data available
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
Refer Section 5.2

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

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

**Potential Health Effects**

*Inhalation*
REFER SECTION 2

*Skin*
REFER SECTION 2

*Eyes*
REFER SECTION 2

*Ingestion*
REFER SECTION 2

### 11.2 Components

**Lactic acid**

*Acute oral toxicity*
Rat LD50: 3,543 mg/kg (ECHA)

*Acute inhalation toxicity*
Rat LC50: > 7.94 mg/L air; 4 h

*Acute dermal toxicity*
Rabbit LD50: > 2 000 mg/kg (ECHA)

*Skin irritation*
Rabbit Result: Highly irritating

*Eye irritation*
Highly irritating

*Sensitisation*
Guinea pig maximisation test
Result: not sensitising

*Ames test*
Streptomycine-dependent E. coli strains B/Sd-4/1,3,4,5 and B/Sd-4/3,4
Result: Negative

*Mutagenicity (mammal cell test)*
No data available

*Carcinogenicity*
No data available

*Toxicity to Reproduction*
No data available

*Teratogenicity*
No data available

**Additional information:**
RTECS: OD2800000

**Phenol**

*Acute oral toxicity*
Cat LDLo: 80mg/kg (ECHA)
Acute dermal toxicity
Rat LD50: 660 mg/kg (As per OECD Guideline 402)

Acute intravenous toxicity
Rabbit LD50: 180 mg/kg (ECHA)

Skin irritation
No data available

Eye irritation
Rabbit Result: Corrosive (ECHA)

Sensitisation
Mouse Result: Not sensitizing

Genetic toxicity (in-vitro)
Mammalian cell micronucleus test: Positive

Genetic toxicity (in-vivo)
Micronucleus assay: Positive

Carcinogenicity
No data available

Toxicity to reproduction
No data available

Teratogenicity
No data available

Additional information:
RTECS: No data available

12 Ecological Information
12.1 Toxicity
No data available

Components:
Lactic acid

Toxicity to fish
Oncorhynchus mykiss LC50: 130 mg/L; 96h

Toxicity to aquatic invertebrates
Daphnia magna EC50: 750 mg/L; 48h

Toxicity to aquatic algae and cyanobacteria
Pseudokirchnerella subcapitata EC50: 3.5 g/L; 70h

Toxicity to microorganisms
Activated sludge (Static test) EC50: >100 mg/L; 3h

Components:
Phenol

Toxicity to aquatic invertebrates
Daphnia magna EC50: 12.9 mg/L; 48h

Toxicity to aquatic algae and cyanobacteria
Microcystis aeruginosa Toxicity threshold: 4.6 mg/L; 8d (ECHA)

Toxicity to microorganisms
Entosiphon sulcatum (Aquatic test) TT: 33 mg/L; 72h

Toxicity to other aquatic microorganisms
Rana temporaria LC50 : 0.27mg/L; 4d

Toxicity to soil macrorganisms except arthropods

Eisenia fetida LC50 : 401mg/kg, 14d (ECHA)

Toxicity to terrestrial arthropods

Acrotylus patruelis (Grasshopper) EC50 : >6.05 mg/kg; 56d

Toxicity to birds

Agelaius phoeniceus LD50 : >113mg/kg; 18h

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
This preparation contains no substance considered to be persistent, bioaccumulating or toxic (PBT) at levels of 0.1% or higher.

12.6 Other adverse effects
Discharge into the environment must be avoided.

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 : 2927 ADR : 2927 IATA_C : 2927 IATA_P : 2927 IMDG : 2927 RID : 2927

14.2 UN proper shipping name

ADNR : Toxic liquid, corrosive, organic, n.o.s. or Toxic
ADR : Toxic liquid, corrosive, organic, n.o.s. or Toxic
IATA_C : Toxic liquid, corrosive, organic, n.o.s. or Toxic
IATA_P : Toxic liquid, corrosive, organic, n.o.s. or Toxic
IMDG : Toxic liquid, corrosive, organic, n.o.s. or Toxic
RID : Toxic liquid, corrosive, organic, n.o.s. or Toxic

14.3 Transport hazard class(es)
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
No data available

15.2 Chemical Safety Assessment
No data available

16 Other information
Text of H codes and classification mentioned in section 3

H301 Toxic if swallowed
H311 Toxic in contact with skin
H314 Causes severe skin burns and eye damage
H315 Causes skin irritation
H318 Causes serious eye damage
H331 Toxic if inhaled
H341 Suspected of causing genetic defects
H373 May cause damage to organs through prolonged or repeated exposure

Acute Tox. dermal. 3 Acute toxicity, dermal, Category 3
Acute Tox. inhal. 3 Acute toxicity, inhaled, Category 3
Acute Tox.oral. 3 Acute toxicity, oral, Category 3
Eye Dam. 1 Serious eye damage or eye irritation, Category 1
Muta. 2 Germ cell mutagenicity, Category 2
Skin Corr. 1B Skin corrosion or irritation, Category 1B
Skin Irrit. 2 Skin corrosion or irritation, Category 2
STOT RE 2 Specific target organ toxicity, repeated exposure, Category 2

Further Information

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