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

1.1 Product Identifiers
Product Number  S016
Product Name    Lactophenol Cotton Blue
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 InVitro 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.  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 1B), 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].
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P310 Immediately call a POISON CENTER or doctor/physician.
P305 IF IN EYES:
P351 Rinse cautiously with water for several minutes.
P338 Remove contact lenses, if present and easy to do. Continue rinsing.

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>Phenol</td>
<td>As Per EC Regulation 1272/2008</td>
<td>&gt;=20.0 - &lt;=30.0%</td>
</tr>
<tr>
<td>CAS No.:</td>
<td>108-95-2</td>
<td></td>
</tr>
<tr>
<td>EC No.:</td>
<td>203-632-7</td>
<td></td>
</tr>
<tr>
<td>Index-No:</td>
<td>604-001-00-2</td>
<td></td>
</tr>
<tr>
<td>L-Lactic acid</td>
<td>As Per EC Regulation 1272/2008</td>
<td>&gt;=20.0 - &lt;=30.0%</td>
</tr>
<tr>
<td>CAS No.:</td>
<td>79-33-4</td>
<td></td>
</tr>
<tr>
<td>EC No.:</td>
<td>201-196-2</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>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Ink blue 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>
<tr>
<td>Flash point</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

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

**Aspiration hazard**
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

**Phenol**

*Acute oral toxicity*
Cat LDLo: 80mg/kg (ECHA)

*Acute dermal toxicity*
Rat LD50:660mg/kg (As per OECD Guideline 402)

*Acute intravenous toxicity*
Rabbit LD50:180mg/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

**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

12 Ecological Information
12.1 Toxicity
No data available
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: 0.27 mg/L; 4d
Toxicity to soil macroorganisms except arthropods
Eisenia fetida LC50: 401 mg/kg, 14d (ECHA)
Toxicity to terrestrial arthropods
Acrotylus patruelis (Grasshopper) EC50: > 6.05 mg/kg; 56d
Toxicity to birds
Agelaius phoeniceus LD50: > 113 mg/kg; 18h
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

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. Toxic to aquatic life.

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 : 2821 ADR : 2821 IATA_C : 2821 IATA_P : 2821 IMDG : 2821 RID : 2821

14.2 UN proper shipping name
ADNR : Phenol solutions
ADR : Phenol solutions
IATA_C : Phenol solutions
IATA_P : Phenol solutions
IMDG : Phenol solutions
RID : Phenol solutions

14.3 Transport hazard class(es)

14.4 Packaging group
ADNR : II ADR : II IATA_C : II IATA_P : II IMDG : II RID : II

14.5 Environmental hazards
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

<table>
<thead>
<tr>
<th>H Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H301</td>
<td>Toxic if swallowed</td>
</tr>
<tr>
<td>H311</td>
<td>Toxic in contact with skin</td>
</tr>
<tr>
<td>H314</td>
<td>Causes severe skin burns and eye damage</td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation</td>
</tr>
<tr>
<td>H318</td>
<td>Causes serious eye damage</td>
</tr>
<tr>
<td>H331</td>
<td>Toxic if inhaled</td>
</tr>
<tr>
<td>H341</td>
<td>Suspected of causing genetic defects</td>
</tr>
<tr>
<td>H373</td>
<td>May cause damage to organs through prolonged or repeated exposure</td>
</tr>
</tbody>
</table>

Acute Tox. dermal. 3急性毒性，皮肤接触，类别3
Acute Tox. inhal. 3急性毒性，吸入，类别3
Acute Tox. oral. 3急性毒性，口服，类别3
Eye Dam. 1严重眼损伤或眼刺激，类别1
Muta. 2 基因突变性，类别2
Skin Corr. 1B皮肤腐蚀或刺激，类别1B
Skin Irrit. 2皮肤腐蚀或刺激，类别2
STOT RE 2特定靶器官毒性，重复接触，类别2

Further Information

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