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

1.1 Product Identifiers

Product Number: S017
Product Name: Lactophenol Picric Acid
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.

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, Dermal, (Category 4), H312
Skin corrosion or irritation, (Category 1A), H314
Acute toxicity, Inhaled, (Category 3), H331
Germ cell mutagenicity, (Category 2), H341
Specific target organ toxicity, repeated exposure, (Category 2), H373
Hazardous to the aquatic environment, long term hazard, (Category 3), H412

2.2 Label elements

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

Pictogram
Signal word: Danger
Hazard Statement(s)

H302+H312 Harmful if swallowed or in contact with skin.
H314 Causes severe skin burns and eye damage
H331 Toxic if inhaled
H341 Suspected of causing genetic defects
H373 May cause damage to organs through prolonged or repeated exposure
H412 Harmful 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+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. 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>
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<td></td>
</tr>
<tr>
<td>CAS No. :</td>
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<td>EC No. :</td>
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<td>Index-No :</td>
<td>604-001-00-2</td>
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</table>

As Per EC Regulation 1272/2008
Acute Tox.oral. 3; Acute Tox. dermal. 3; Skin Corr. 1B; Acute Tox. inhal. 3; Muta. 2; STOT RE 2 H301; H311; H314; H331; H341; H373

| Concentration | >=20.0 - <=30.0% |

<table>
<thead>
<tr>
<th>Component</th>
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<th>Concentration</th>
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<tr>
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<td>50-21-5</td>
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<td>EC No. :</td>
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As Per EC Regulation 1272/2008
Skin Irrit. 2; Eye Dam. 1 H315; H318

| Concentration | >=20.0 - <=30.0% |

<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
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<td>EC No. :</td>
<td>201-865-9</td>
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</tbody>
</table>

As Per EC Regulation 1272/2008
H228; H302+H332; H311

| Concentration | >=20.0 - <=30.0% |
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, 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
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
    Appearance: Yellow coloured viscous clear solution
    Odour: Phenolic odour
    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
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
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: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Phenol)
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 LD50: 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

**Picric acid**

**Acute oral toxicity**
No data available

**Acute inhalation toxicity**
No data available

**Acute dermal toxicity**
No data available

**Skin irritation**
No data available

**Eye irritation**
No data available

**Sensitisation**
No data available

**Ames test**
No data available

**Mutagenicity (mammal cell test)**
No data available

**Carcinogenicity**
No data available
Toxicity to Reproduction
No data available
Teratogenicity
No data available

Additional information:
RTECS: TJ7875000

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 macrorganisms 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
Components:
Picric acid
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**
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 : 2922  ADR : 2922  IATA_C : 2922  IATA_P : 2922  IMDG : 2922  RID : 2922

14.2 **UN proper shipping name**
ADNR : Corrosive liquids, toxic, n.o.s.
ADR : Corrosive liquids, toxic, n.o.s.
IATA_C : Corrosive liquids, toxic, n.o.s.
IATA_P : Corrosive liquids, toxic, n.o.s.
IMDG : Corrosive liquids, toxic, n.o.s.
RID : Corrosive liquids, toxic, n.o.s.

14.3 **Transport hazard class(es)**
ADNR : 8  ADR : 8  IATA_C : 8  IATA_P : 8  IMDG : 8  RID : 8

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

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

- **H228**: Flammable solid
- **H301**: Toxic if swallowed
- **H302+H332**: Harmful if swallowed or if inhaled
- **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

<table>
<thead>
<tr>
<th>Hazard Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Tox. dermal. 3</td>
<td>Acute toxicity, dermal, Category 3</td>
</tr>
<tr>
<td>Acute Tox. inhal. 3</td>
<td>Acute toxicity, inhaled, Category 3</td>
</tr>
<tr>
<td>Acute Tox. oral. 3</td>
<td>Acute toxicity, oral, Category 3</td>
</tr>
<tr>
<td>Eye Dam. 1</td>
<td>Serious eye damage or eye irritation, Category 1</td>
</tr>
<tr>
<td>Muta. 2</td>
<td>Germ cell mutagenicity, Category 2</td>
</tr>
<tr>
<td>Skin Corr. 1B</td>
<td>Skin corrosion or irritation, Category 1B</td>
</tr>
<tr>
<td>Skin Irrit. 2</td>
<td>Skin corrosion or irritation, Category 2</td>
</tr>
<tr>
<td>STOT RE 2</td>
<td>Specific target organ toxicity, repeated exposure, Category 2</td>
</tr>
</tbody>
</table>

### Further Information

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