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

1.1 Product Identifiers

Product Number          S042
Product Name            Phenolic auramine
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.             +91-22-2500 2468
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]
Skin corrosion or irritation, (Category 1B), H314
Acute toxicity, Inhaled, (Category 4), H332
Germ cell mutagenicity, (Category 2), H341
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)
H314        Causes severe skin burns and eye damage
H332        Harmful if inhaled
H341        Suspected of causing genetic defects
H412        Harmful to aquatic life with long lasting effects
Precautionary Statement(s)
Obtain special instructions before use.

Avoid release to the environment.

Wear protective gloves/protective clothing/eye protection/face protection.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

IF INHALED:

Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Immediately call a POISON CENTER or doctor/physician.

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>Auramine O</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAS No. :</td>
<td>2465-27-2</td>
<td>&gt;=0.1 - &lt;=1.0%</td>
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<tr>
<td>EC No. :</td>
<td>219-567-2</td>
<td></td>
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<tr>
<td></td>
<td>As Per EC Regulation 1272/2008</td>
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<tr>
<td></td>
<td>Acute Tox.oral 4; Acute Tox. dermal. 3;</td>
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</tr>
<tr>
<td></td>
<td>Carc. 2 H302; H311; H351</td>
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<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
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<td></td>
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<td>&gt;=1.0 - &lt;=10.0%</td>
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<td>As Per EC Regulation 1272/2008</td>
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<td></td>
<td>Acute Tox.oral. 3; Acute Tox. dermal. 3;</td>
<td></td>
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<tr>
<td></td>
<td>Skin Corr. 1B; Acute Tox. inhal. 3; Muta. 2;</td>
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</tr>
<tr>
<td></td>
<td>STOT RE 2 H301; H311; H314; H331; H341; H373</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*
Water, Foam, Carbon dioxide (CO₂), Dry powder

*Unsuitable extinguishing media*
No data available.

5.2 Special hazards arising from the substance or mixture
Combustible. Vapours are heavier than air and may spread along floors. Development of hazardous combustion gases or vapours possible in the event of fire.

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. Wear protective gloves.

**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 of 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>
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<tbody>
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<td>Appearance</td>
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<tr>
<td>Odour</td>
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<td>Odour Threshold</td>
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</tr>
<tr>
<td>pH</td>
<td>No data available</td>
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<tr>
<td>Melting/freezing point</td>
<td>No data available</td>
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<tr>
<td>Initial boiling point and boiling range</td>
<td>No data available</td>
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<tr>
<td>Flash point</td>
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<tr>
<td>Flammability (Solid, gas)</td>
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<tr>
<td>Vapour pressure</td>
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<tr>
<td>Relative density</td>
<td>No data available</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>No data available</td>
</tr>
</tbody>
</table>
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
Direct sources of heat.
10.5 Incompatible materials
Strong oxidizing agents, Do not store near acids.
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

**Auramine O**

*Acute oral toxicity*
Rat LD50: 1000 mg/kg

*Acute inhalation toxicity*
No data available

*Acute dermal toxicity*
No data available

*Skin irritation*
Rabbit Result: Non irritant (As per OECD Test Guideline 404)

*Eye irritation*
Rabbit Result: Eye irritant (As per OECD Test Guideline 405)

*Sensitisation*
No data available

*Germ cell mutagenicity*
Genotoxicity in vitro

*Ames test*
Salmonella typhimurium
Result: positive (National Toxicology Program)

*Carcinogenicity*
No data available

*Reproductive toxicity*
No data available

*Teratogenicity*
No data available

*Carcinogenicity*
No data available

### Additional information:

RTECS: BY3675000

**Phenol Red**

*Acute Oral Toxicity*
LD50 Rat: >600 mg/Kg

Intravenous Rat LD50: 752 mg/Kg

Intravenous Mouse LD50: 1368 mg/Kg

*Inhalation:*

Page 6 of 9
May cause respiratory irritation.

**Additional Information:**
RTECS SJ7490000

### 12 Ecological Information

#### 12.1 Toxicity

No data available

**Components:**

- **Auramine O**
  - *Toxicity to fish*
    - No data available
  - *Toxicity to daphnia and other aquatic invertebrates*
    - No data available
  - *Toxicity to algae*
    - No data available
  - *Toxicity to bacteria*
    - No data available

**Components:**

- **Phenol**
  - *Toxicity to aquatic invertebrates*
    - Daphnia magna EC50 :12.9mg/L;48h
  - *Toxicity to aquatic algae and cyanobacteria*
    - Microcystis aeruginosa Toxicity threshold :4.6mg/L;8d (ECHA)
  - *Toxicity to microorganisms*
    - Entosiphon sulcatum (Aquatic test) TT:33mg/L;72h
  - *Toxicity to other aquatic microorganisms*
    - Rana temporaria LC50 :0.27mg/L;4d
  - *Toxicity to soil macroorganisms 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 : 3265 ADR : 3265 IATA_C : 3265 IATA_P : 3265 IMDG : 3265 RID : 3265

14.2 UN proper shipping name
ADNR : Corrosive liquid, acidic, organic, n.o.s.
ADR : Corrosive liquid, acidic, organic, n.o.s.
IATA_C : Corrosive liquid, acidic, organic, n.o.s.
IATA_P : Corrosive liquid, acidic, organic, n.o.s.
IMDG : Corrosive liquid, acidic, organic, n.o.s.
RID : Corrosive liquid, acidic, organic, 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

- **H301** Toxic if swallowed
- **H302** Harmful if swallowed
- **H311** Toxic in contact with skin
- **H314** Causes severe skin burns and eye damage
H331 Toxic if inhaled
H341 Suspected of causing genetic defects
H351 Suspected of causing cancer
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 4 Acute toxicity, oral, Category 4
Acute Tox.oral. 3 Acute toxicity, oral, Category 3
Carc. 2 Carcinogenicity, Category 2
Muta. 2 Germ cell mutagenicity, Category 2
Skin Corr. 1B Skin corrosion or irritation, Category 1B
STOT RE 2 Specific target organ toxicity, repeated exposure, Category 2

Further Information

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