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

1.1 Product Identifiers
Product Number: S076
Product Name: Hematoxylin (Gill No.3)
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]
Serious eye damage or eye irritation, (Category 1), H318

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

Pictogram
Hazard Statement(s)

H318 Causes serious eye damage

Precautionary Statement(s)
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/physician.

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>Aluminium sulphate</td>
<td>CAS No. : 16828-11-8</td>
<td>As Per EC Regulation 1272/2008</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Eye Dam. 1 H318</td>
</tr>
</tbody>
</table>

| Ethylene glycol            | CAS No. : 107-21-1               | As Per EC Regulation 1272/2008|
|                            |                                 | Acute Tox.oral 4; STOT RE 2 H302; H373| >=20.0 - <=30.0% |

| Glacial acetic acid        | CAS No. : 64-19-7                | As Per EC Regulation 1272/2008|
|                            | EC No. : 200-580-7               | Flam. Liq. 3; Skin Corr. 1A H226; H314| >=1.0 - <=10.0% |
|                            | Index-No : 607-002-00-6          |                                   |                   |

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, Sulphur oxides, Aluminum oxide

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>Wine red 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>
<tr>
<td>Flammability (Solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour pressure</td>
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</tr>
<tr>
<td>Relative density</td>
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</tr>
<tr>
<td>Water Solubility</td>
<td>No data available</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
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</tr>
<tr>
<td>Autoignition Temperature</td>
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</tr>
<tr>
<td>Viscosity</td>
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</tr>
<tr>
<td>Explosive properties</td>
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</tr>
<tr>
<td>Oxidizing properties</td>
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</tr>
<tr>
<td>Vapour density</td>
<td>No data available</td>
</tr>
<tr>
<td>Thermal decomposition</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
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

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

Haematoxylin

Acute oral toxicity
Rat LD50: 400 mg/kg

**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: MH7875000

---

**Aluminium sulphate**

**Acute oral toxicity**
Rat LD50: >5,000 mg/kg

**Acute inhalation toxicity**
No data available

**Acute dermal toxicity**
No data available

**Skin irritation**
Rabbit Result: Non Irritant

**Eye irritation**
Rabbit Result: Slight irritation

**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: BD1700000

**Sodium iodate**
*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: NN1400000

**Ethylene glycol**
*Acute oral toxicity*
Rat LD50: 4,700 mg/kg
*Acute inhalation toxicity*
No data available
*Acute dermal toxicity*
Rabbit LD50: 10,626 mg/kg
*Skin irritation*
Rabbit Result: Non Irritant
*Eye irritation*
Rabbit Result: Mild irritant
*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*
Lab experiments have shown teratogenic effects

**Additional information:**
RTECS: KW2975000

**Glacial acetic acid**
*Acute oral toxicity*
Mouse LD50: 4,960 mg/kg (ECHA)
*Skin irritation*
Rabbit Result: Irritations (As Per OECD Test Guideline 404)
*Eye irritation*
Rabbit Result: Irritant (As Per OECD Test Guideline 405)
*Sensitisation*
No data available
*Ames test*
Salmonella Typhimurium
Result: Negative (As Per OECD Test Guideline 471)
*Mutagenicity (mammal cell test)*
Micronucleus assay
Result: Negative (As Per EU Method B.12)
*Carcinogenicity*
No data available
*Toxicity to Reproduction*
No data available
*Teratogenicity*
No data available

**Additional information:**
RTECS AF1225000

12   Ecological Information
12.1  Toxicity
No data available
**Components:**
*Haematoxylin*
Toxicity
No data available

**Component:**
**Aluminium sulphate**
*Toxicity to fish*
Pimephales promelas (fathead minnow) LC50: 36.1 mg/l; 96 h

**Component:**
**Sodium iodate**
*Toxicity to fish*
Oncorhynchus mykiss (rainbow trout) LC50: 220 mg/l; 96 h

**Component:**
**Ethylene glycol**
*Toxicity to fish*
Oncorhynchus mykiss (rainbow trout) LC50: 18,500 mg/l; 96 h
*Toxicity to daphnia and other aquatic invertebrates*
Daphnia magna (Water flea) EC50: 74,000 mg/l; 24 h

**Components:**
**Glacial acetic acid**
*Toxicity to fish*
Oncorhynchus mykiss (Rainbow trout) LC50: 108 mg/L; 96 h (As per OECD Guideline 203)
*Toxicity to aquatic invertebrates*
Daphnia magna (Water flea) EC50: 79.5 mg/L; 48 h (As per OECD Guideline 202)
*Toxicity to aquatic algae and cyanobacteria*
Skeletonema costatum EC50: >300.82 mg/L; 72 h (As per ISO 10253)

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

<table>
<thead>
<tr>
<th>ADNR</th>
<th>ADR</th>
<th>IATA_C</th>
<th>IATA_P</th>
<th>IMDG</th>
<th>RID</th>
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</thead>
</table>

14.2 UN proper shipping name

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</tr>
</thead>
<tbody>
<tr>
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</tbody>
</table>

14.3 Transport hazard class(es)

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<tr>
<th>ADNR</th>
<th>ADR</th>
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<th>IATA_P</th>
<th>IMDG</th>
<th>RID</th>
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</thead>
<tbody>
<tr>
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<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

14.4 Packaging group

<table>
<thead>
<tr>
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<th>ADR</th>
<th>IATA_C</th>
<th>IATA_P</th>
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14.5 Environmental hazards

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<th>ADR</th>
<th>IMDG</th>
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<th>RID</th>
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<td>NO</td>
</tr>
</tbody>
</table>

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>H226</th>
<th>Flammable liquid and vapour</th>
</tr>
</thead>
<tbody>
<tr>
<td>H302</td>
<td>Harmful if swallowed</td>
</tr>
<tr>
<td>H314</td>
<td>Causes severe skin burns and eye damage</td>
</tr>
<tr>
<td>H318</td>
<td>Causes serious eye damage</td>
</tr>
<tr>
<td>H373</td>
<td>May cause damage to organs through prolonged or repeated exposure</td>
</tr>
</tbody>
</table>

Acute Tox. oral 4

Eye Dam. 1

Flam. Liq. 3

Skin Corr. 1A

STOT RE 2

Further Information

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