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

1.1 Product Identifiers

Product Number   S059
Product Name     Haematoxylin (Ehrlich)
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
Mail Id        info@himedialabs.com
Fax No.         +91-22-25002468
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]
Flammable liquids, (Category 3), H226

2.2 Label elements

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

Pictogram

Signal word   Warning

Hazard Statement(s)

H226             Flammable liquid and vapour

Precautionary Statement(s)

P210            Keep away from heat/sparks/open flames/hot surfaces. — No smoking.

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].

P403 + P235 Store in a well-ventilated place. Keep cool.

2.3 Other Hazards

Page 1 of 10
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>Haematoxylin</td>
<td>As Per EC Regulation 1272/2008</td>
<td>&gt;=0.1 - &lt;=1.0%</td>
</tr>
<tr>
<td>CAS No. :</td>
<td>517-28-2</td>
<td></td>
</tr>
<tr>
<td>EC No. :</td>
<td>208-237-3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Acute Tox. oral 4; Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3 H302; H315; H319; H335</td>
<td></td>
</tr>
<tr>
<td>Ethyl alcohol</td>
<td>As Per EC Regulation 1272/2008</td>
<td>&gt;=20.0 - &lt;=30.0%</td>
</tr>
<tr>
<td>CAS No. :</td>
<td>64-17-5</td>
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</tr>
<tr>
<td>EC No. :</td>
<td>200-578-6</td>
<td></td>
</tr>
<tr>
<td>Index-No :</td>
<td>603-002-00-5</td>
<td></td>
</tr>
<tr>
<td>Glacial acetic acid</td>
<td>As Per EC Regulation 1272/2008</td>
<td>&gt;=1.0 - &lt;=10.0%</td>
</tr>
<tr>
<td>CAS No. :</td>
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<tr>
<td>EC No. :</td>
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</tr>
<tr>
<td>Index-No :</td>
<td>607-002-00-6</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
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>Wine red coloured clear solution</td>
</tr>
<tr>
<td>Odour</td>
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</tr>
<tr>
<td>Odour Threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
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<tr>
<td>Melting/freezing point</td>
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<tr>
<td>Initial boiling point and boiling range</td>
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</tr>
<tr>
<td>Flash point</td>
<td>No data available</td>
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<tr>
<td>Flammability (Solid, gas)</td>
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<tr>
<td>Vapour pressure</td>
<td>No data available</td>
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<tr>
<td>Relative density</td>
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<tr>
<td>Water Solubility</td>
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<td>Partition coefficient: n-octanol/water</td>
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<tr>
<td>Autoignition Temperature</td>
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<tr>
<td>Viscosity</td>
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<tr>
<td>Explosive properties</td>
<td>No data available</td>
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<tr>
<td>Oxidizing properties</td>
<td>No data available</td>
</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
Incompatible material

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

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

**Ethanol (Ethyl alcohol)**

*Acute oral toxicity*
Rat LD50: 10,470 mg/kg
(As Per OECD Test Guideline 401)

*Acute inhalation toxicity*
Rat LC50: 124.7 mg/l; 4 h; Vapour
(As Per OECD Test Guideline 403)

*Acute dermal toxicity*
No data available

*Skin irritation*
Rabbit Result: Non Irritant
(As Per OECD Test Guideline 404)

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

*Sensitisation*
Result: Negative
(As Per IUCLID)

*Ames test*
Salmonella Typhimurium
Result: Negative
(As Per OECD Test Guideline 471)

**Additional information:**
RTECS: KQ6300000

---

12  
12.1  
**Ecological Information**

**Toxicity**
No data available

**Components:**
Haematoxylin

*Toxicity*
Components:

**Glacial acetic acid**

*Toxicity to fish*

Oncorhyncus mykiss (Rainbow trout) LC50: 108mg/L; 96h (As per OECD Guideline 203)

*Toxicity to aquatic invertebrates*

Daphnia magna (Water flea) EC50: 79.5mg/L; 48h (As per OECD Guideline 202)

*Toxicity to aquatic algae and cyanobacteria*

Skeletonoma costatum EC50: >300.82 mg/L; 72h (As per ISO 10253)

Component:

**Ethanol (Ethyl alcohol)**

*Toxicity to fish*

Leuciscus idus (Golden orfe) LC50: 8,140 mg/l; 48 h
(As Per IUCLID)

Pimephales promelas (fathead minnow) LC50: 14,200 mg/l; 96h
(As Per IUCLID)

*Daphnia magna (Water flea) EC50: 9,268-14,221 mg/l; 48h*
(As Per IUCLID)

Daphnia magna (Water flea) NOEC: 9.6 mg/l; 9d

*Toxicity to algae*

Scenedesmus quadricauda (Green algae) IC50: 5,000 mg/l; 7d
Chlorella vulgaris (Fresh water algae) EC50: 275 mg/l; 72h
(As Per OECD Test Guideline 201)

*Toxicity to bacteria*

Pseudomonas putida EC50: 6,500 mg/l; 16 h
(As Per IUCLID)

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

14.2 UN proper shipping name
ADNR : Ethanol (Ethyl alcohol) or Ethanol solution (Ethyl alcohol solution)
ADR : Ethanol (Ethyl alcohol) or Ethanol solution (Ethyl alcohol solution)
IATA_C : Ethanol (Ethyl alcohol) or Ethanol solution (Ethyl alcohol solution)
IATA_P : Ethanol (Ethyl alcohol) or Ethanol solution (Ethyl alcohol solution)
IMDG : Ethanol (Ethyl alcohol) or Ethanol solution (Ethyl alcohol solution)
RID : Ethanol (Ethyl alcohol) or Ethanol solution (Ethyl alcohol solution)

14.3 Transport hazard class(es)
ADNR : 3  ADR : 3  IATA_C : 3  IATA_P : 3  IMDG : 3  RID : 3

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
H225 Highly flammable liquid and vapour
H226 Flammable liquid and vapour
H302 Harmful if swallowed
H314 Causes severe skin burns and eye damage
H315 Causes skin irritation
H319 Causes serious eye irritation
H335 May cause respiratory irritation
Acute Tox.oral 4 Acute toxicity, oral, Category 4
Eye Irrit. 2A  Serious eye damage or eye irritation, Category 2A
Flam. Liq. 2  Flammable liquids, Category 2
Flam. Liq. 3  Flammable liquids, Category 3
Skin Corr. 1A  Skin corrosion or irritation, Category 1A
Skin Irrit. 2  Skin corrosion or irritation, Category 2
STOT SE 3  Specific target organ toxicity, single exposure, Respiratory tract irritation, Category 3

Further Information

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