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

1.1 Product Identifiers

Product Number  S014
Product Name     Hematoxylin (Delafield's)
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
Skin corrosion or irritation, (Category 2), H315
Serious eye damage or eye irritation, (Category 2A), H319
Flammable liquids, (Category 3), H226
Acute toxicity, Oral, (Category 4), H302
Specific target organ toxicity, single exposure, (Category 1), H370

2.2 Label elements

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

Pictogram
Signal word  Danger

Hazard Statement(s)

H315  Causes skin irritation
H319  Causes serious eye irritation
H226  Flammable liquid and vapour
H302  Harmful if swallowed
H370  Causes damage to organs
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].
P333/P337+P313  IF skin irritation or rash occurs/eye irritation persists: Get medical advice/attention.
P301 + P312  IF SWALLOWED: call a POISON CENTER or doctor/physician IF you feel unwell.
P307 + P311  IF exposed: 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>
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<td>As Per EC Regulation 1272/2008</td>
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<td>H302; H315; H319; H319; H335</td>
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<td>Ethyl alcohol</td>
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<td>Ammonium alum, dodecahydrate</td>
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<td>Methanol</td>
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<td>As Per EC Regulation 1272/2008</td>
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<td>Index-No : 603-001-00-X</td>
<td>H225; H301; H311; H331; H370</td>
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</table>
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
Appearance: Violet coloured clear solution
Odour
Odour Threshold
pH
Melting/freezing point
Initial boiling point and boiling range
Flash point
Flammability (Solid, gas)
Vapour pressure
Relative density
Water Solubility
Partition coefficient: n-octanol/water
Autoignition Temperature
Viscosity
Explosive properties
Oxidizing properties
Vapour density
Thermal decomposition

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 ammonium bis(sulphate)

*Acute oral toxicity*
No data available

*Acute inhalation toxicity*
No data available

*Acute dermal toxicity*
Rat LD50: > 2,000 mg/kg (As per OECD Guideline 402)

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

*Eye irritation*
No data available

*Sensitisation*
Mouse Result: not sensitising (As per OECD Guideline 429)

*Ames test*
Salmonella Typhimurium
Result: Negative (ECHA)

*Genetic toxicity (in-vivo)*
Micronucleus assay
Result: Negative

*Carcinogenicity*
No data available

*Toxicity to Reproduction*
No data available

*Teratogenicity*
No data available

**Additional information:**
RTECS: No data available

Glycerine

*Acute oral toxicity*
Rat LD50: 18,300 mg/kg

*Acute inhalation toxicity*
No data available

*Acute dermal toxicity*
Guinea pig LD50: 45 mL/kg (ECHA)

*Skin irritation*
Rabbit Result: Non Irritant (ECHA)

*Eye irritation*
Rabbit Result: Non irritant (ECHA)

*Sensitisation*
No data available

*Genetic toxicity (in-vitro)*
Mammalian Chromosome Aberration Test
Result: Negative
*Genetic toxicity* (in-vivo)
No data available
*Carcinogenicity*
No data available
*Toxicity to Reproduction*
No data available
*Teratogenicity*
No data available

**Additional information:**
RTECS: MA8050000

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**Methanol**

*Acute Oral Toxicity*
Rat LD50: 5600 mg/kg
Rabbit LD50: 14200 mg/kg

*Acute Dermal Toxicity*
Rabbit LD50: 15800 mg/kg

*Acute Inhalation Toxicity*
Rabbit LC50: 81000 mg/m
Rat LC50: 64000 ppm/4h

*Eye Damage/Irritation*
Moderate eye irritant.

*Skin Corrosion/Irritation*
Not considered to be an irritant.

*Sensitization*
Not considered to be a sensitizer.

*Chronic Toxicity and Carcinogenicity*
Not listed by IARC, NTP, ACGIH OR OSHA as a carcinogen.

*Reproductive Toxicity*
Not considered to be reproductive toxin.

*Mutagenicity*
There is insufficient information available to conclude that methanol is mutagenic.

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**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  Ecological Information
12.1 Toxicity
No data available

Components:
Haematoxylin
Toxicity
No data available

Components:
Aluminium ammonium(bis)sulphate
Toxicity to fish
Danio rerio NOEC: >= 0.105 mg/L;96h
Toxicity to aquatic invertebrates
Daphnia magna (Static test) EC50: 47.5 mg/L;48h
Toxicity to aquatic algae and cyanobacteria
Pseudokirchnerella subcapitata EC50:14mg/L;72h
Toxicity to microorganisms
Activated sludge(Static test) EC50: > 1,000 mg/L;3h

Components:
Glycerine
Toxicity to fish
Oncorhynchus mykiss LC50: 54,000 mg/L;96h
Toxicity to aquatic invertebrates
Daphnia magna EC50: > 10,000 mg/L;24h
Components:
Methanol
*Toxicity to fish*
Fish LC50: 15400-29400 mg/l, 96h
*Toxicity to Daphnia*
Daphnia magna EC50: 10000 mg/l, 48h
*Toxicity to Algae*
Algae EC50: 22000 mg/l, 72h

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
*Toxicity to daphnia and other aquatic invertebrates*
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 : Flammable liquids, n.o.s.
ADR : Flammable liquids, n.o.s.
IATA_C : Flammable liquids, n.o.s.
IATA_P : Flammable liquids, n.o.s.
IMDG : Flammable liquids, n.o.s.
RID : Flammable liquids, n.o.s.

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

14.4 Packaging group

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
H301 Toxic if swallowed
H302 Harmful if swallowed
H311 Toxic in contact with skin
H315 Causes skin irritation
H319 Causes serious eye irritation
H331 Toxic if inhaled
H335 May cause respiratory irritation
H370 Causes damage to organs
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
Eye Irrit. 2A Serious eye damage or eye irritation, Category 2A
Flam. Liq. 2 Flammable liquids, Category 2
Skin Irrit. 2  
Skin corrosion or irritation, Category 2

STOT SE 1  
Specific target organ toxicity, single exposure, Category 1

STOT SE 3  
Specific target organ toxicity, single exposure, Respiratory tract irritation, Category 3

Further Information

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