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

1.1 Product Identifiers
Product Number  S005
Product Name  Carbol Fuchsin (ZN, Strong)
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  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 2), H315
Serious eye damage or eye irritation, (Category 2A), H319
Germ cell mutagenicity, (Category 2), H341
Carcinogenicity, (Category 1B), H350
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)
H315  Causes skin irritation
H319  Causes serious eye irritation
H341  Suspected of causing genetic defects
H350  May cause cancer
H412  Harmful to aquatic life with long lasting effects
Precautionary Statement(s)

P201 Obtain special instructions before use.
P273 Avoid release to the environment.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313 IF exposed or concerned: Get medical advice/attention.

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>Basic Fuchsin</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAS No. :</td>
<td>569-61-9</td>
<td>As Per EC Regulation 1272/2008</td>
</tr>
<tr>
<td>EC No. :</td>
<td>209-321-2</td>
<td>Carc. 1B H350</td>
</tr>
<tr>
<td>Index-No :</td>
<td>611-031-00-X</td>
<td>&gt;=0.1 &lt;=1.0%</td>
</tr>
</tbody>
</table>

| Ethyl alcohol   |                                 |                          |
| CAS No. :       | 64-17-5                         | As Per EC Regulation 1272/2008 |
| EC No. :        | 200-578-6                       | Flam. Liq. 2; Eye Irrit. 2A H225; H319 |
| Index-No :      | 603-002-00-5                    | >=10.0 <=20.0%           |

| Phenol          |                                 |                          |
| CAS No. :       | 108-95-2                        | As Per EC Regulation 1272/2008 |
| EC No. :        | 203-632-7                       | 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 |
| Index-No :      | 604-001-00-2                    | >=5.0 <=10.0%            |

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

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>Dark pinkish red clear solution with sheen.</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>Property</td>
<td>Information</td>
</tr>
<tr>
<td>----------------------------------------------</td>
<td>---------------------------------</td>
</tr>
<tr>
<td>Flammability (Solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>No data available</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>No data available</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>No data available</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<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
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

Basic Fuchsin (C.I.Basic Red 9)
Germ cell mutagenicity
Salmonella

**Phenol**

*Acute oral toxicity*
Cat LDLo: 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

**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

Component:
Basic fuchsin
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 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
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 licensed disposal company. Contact a licensed professional waste disposal service to dispose of 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 liquid, corrosive, n.o.s.
ADR : Flammable liquid, corrosive, n.o.s.
IATA_C : Flammable liquid, corrosive, n.o.s.
IATA_P : Flammable liquid, corrosive, n.o.s.
IMDG : Flammable liquid, corrosive, n.o.s.
RID : Flammable liquid, corrosive, 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
H311  Toxic in contact with skin
H314  Causes severe skin burns and eye damage
H319  Causes serious eye irritation
H331  Toxic if inhaled
H341  Suspected of causing genetic defects
H350  May cause 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. 3  Acute toxicity, oral, Category 3
Carc. 1B  Carcinogenicity, Category 1B
Eye Irrit. 2A  Serious eye damage or eye irritation, Category 2A
Flam. Liq. 2  Flammable liquids, 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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