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

1.1  Product Identifiers
Product Number  S118
Product Name  Fixative
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.  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 2), H225
Serious eye damage or eye irritation, (Category 2A), H319
Specific target organ toxicity, single exposure, Narcotic effects, (Category 3), H336
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)
H225  Highly flammable liquid and vapour
H319  Causes serious eye irritation
H336  May cause drowsiness or dizziness
H370  Causes damage to organs
Precautionary Statement(s)
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>Methanol</td>
<td>As Per EC Regulation 1272/2008</td>
<td>&gt;=10.0 - &lt;=20.0%</td>
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<tr>
<td>CAS No. :</td>
<td>67-56-1</td>
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</tr>
<tr>
<td>EC No. :</td>
<td>200-659-6</td>
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</tr>
<tr>
<td>Index-No :</td>
<td>603-001-00-X</td>
<td></td>
</tr>
<tr>
<td>Acetone</td>
<td>As Per EC Regulation 1272/2008</td>
<td>&gt;=50.0 - &lt;=70.0%</td>
</tr>
<tr>
<td>CAS No. :</td>
<td>67-64-1</td>
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<tr>
<td>EC No. :</td>
<td>200-662-2</td>
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<tr>
<td>Index-No :</td>
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<tr>
<td>Citric acid</td>
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<td>&gt;=0.1 - &lt;=1.0%</td>
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<tr>
<td>CAS No. :</td>
<td>77-92-9</td>
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</tr>
<tr>
<td>EC No. :</td>
<td>201-069-1</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**
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>Colourless clear solution</td>
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<tr>
<td>Odour</td>
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</tr>
<tr>
<td>Odour Threshold</td>
<td>No data available</td>
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<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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<td>Initial boiling point and boiling range</td>
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<tr>
<td>Property</td>
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<tr>
<td>-----------------------------------------------</td>
<td>-------------------</td>
</tr>
<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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<td>Relative density</td>
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<tr>
<td>Water Solubility</td>
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<tr>
<td>Partition coefficient: n-octanol/water</td>
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<tr>
<td>Autoignition Temperature</td>
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<tr>
<td>Viscosity</td>
<td></td>
</tr>
<tr>
<td>Explosive properties</td>
<td></td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td></td>
</tr>
<tr>
<td>Vapour density</td>
<td></td>
</tr>
<tr>
<td>Thermal decomposition</td>
<td></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

Direct sources of heat.

#### 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

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.

Acetone
Acute Oral Toxicity
Rat LD50: 3000 mg/kg.
Rat LC50: 44000 mg/m³ 4h; Vapor
Acute Potential health effects
Skin: May cause skin irritation.
Eyes: Causes eye irritation
Inhalation: Causes respiratory tract irritation.
It may affect the Central Nervous System (behavior).
Inhalation may also affect the gastro intestinal tract.
Ingestion: May cause irritation of the digestive (gastrointestinal) tract (nausea, vomiting). It may also affect the Central Nervous System (behavior).

**Citric acid**

*Acute oral toxicity*
Rat LD50: 5,400 mg/kg

*Acute inhalation toxicity*
No data available

*Acute dermal toxicity*
Rat LD50 >2,000 mg/kg

*Skin irritation*
Rabbit Result: Mild skin irritant

*Eye irritation*
Rabbit Result: 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*
No data available

*Additional information:*
RTECS: GE7350000

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12  **Ecological Information**

12.1  **Toxicity**

No data available

**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

**Components:**

*Acetone*

Ecotoxicity in water
Trout LC50: 5540 mg/l; 96h
Bluegill LC50: 8300 mg/l; 96h
Fathead Minnow LC50: 7500 mg/l; 96h
Water flea LC50: 0.1 ppm any hours

Component:
Citric acid
Toxicity to fish
Leuciscus idus melanotus LC50: 440 mg/l; 48h

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 : ADR : IATA_C : IATA_P : IMDG : RID :

14.2 UN proper shipping name
ADNR : Not dangerous goods
ADR : Not dangerous goods
IATA_C : Not dangerous goods
IATA_P : Not dangerous goods
IMDG : Not dangerous goods
RID : Not dangerous goods

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

14.4 Packaging group
ADNR : ADR : IATA_C : IATA_P : IMDG : RID :

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
H319 Causes serious eye irritation
H331 Toxic if inhaled
H336 May cause drowsiness or dizziness
H370 Causes damage to organs
Acute Tox. dermal. 3 Acute toxicity, dermal, Category 3
Acute Tox. inh. 3 Acute toxicity, inhaled, Category 3
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
STOT SE 1 Specific target organ toxicity, single exposure, Category 1
STOT SE 3 Specific target organ toxicity, single exposure, Narcotic effects, Category 3

Further Information

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The information given in this safety data sheet is believed to be correct yet does not claim to be all inclusive. This document is intended only as a guide for appropriate precautionary handling of the material by properly trained individuals, information here being commensurate with the present state of our knowledge regarding the manner and conditions of use, handling, storage or disposal. The information provided herein shall not be considered as guarantee of the properties of the product. HiMedia Laboratories, shall not be held liable for any damage resulting from improper handling or contact with the above product. Unless explicitly stated on the product or in any of the documentation accompanying the product, it is intended for research or testing purpose only and is not to be used for any other purpose.