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

1.1 Product Identifiers
Product Number: R004
Product Name: C.S.F. Diluting Fluid
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]
Carcinogenicity, (Category 2), H351
Skin corrosion or irritation, (Category 2), H315
Serious eye damage or eye irritation, (Category 2A), H319
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: Warning

Hazard Statement(s)
H351 Suspected of causing cancer
H315 Causes skin irritation
H319 Causes serious eye irritation
H412 Harmful to aquatic life with long lasting effects

Precautionary Statement(s)
Obtain special instructions before use.

Wear protective gloves/protective clothing/eye protection/face protection.

Avoid release to the environment.

IF ON SKIN: wash with plenty of soap and water.

Get medical advice/attention.

Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

IF skin irritation/eye irritation persists: Get medical advice/attention.

Store locked up.

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>Crystal violet</td>
<td>As Per EC Regulation 1272/2008</td>
<td>&gt;=0.1 - &lt;=0.3%</td>
</tr>
<tr>
<td>CAS No. : 548-62-9</td>
<td>Acute Tox.oral 4; Eye Dam. 1; Carc. 2; Aquatic Chronic 1</td>
<td></td>
</tr>
<tr>
<td>EC No. : 208-953-6</td>
<td>H302; H318; H351; H410</td>
<td></td>
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<tr>
<td>Index-No : 612-204-00-2</td>
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</tr>
</tbody>
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<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glacial acetic acid</td>
<td>As Per EC Regulation 1272/2008</td>
<td>&gt;=5.00 - &lt;=10.00%</td>
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<tr>
<td>CAS No. : 64-19-7</td>
<td>Flam. Liq. 3; Skin Corr. 1A</td>
<td></td>
</tr>
<tr>
<td>EC No. : 200-580-7</td>
<td>H226; H314</td>
<td></td>
</tr>
<tr>
<td>Index-No : 607-002-00-6</td>
<td></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 
Nature of decomposition products unknown

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>Purple 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>1.95 - 2.15</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>
<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>
</tbody>
</table>
Viscosity  No data available
Explosive properties  No data available
Oxidizing properties  No data available
Vapour density  No data available
Thermal decomposition  No data available

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
No data available
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.

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

**Additional Information**
RTECS : No data available

### 11.2 Components

**Crystal Violet**

*Acute Oral Toxicity*
Rat LD50: 420 mg/kg

*Eye Irritation*
Irritant to eyes

*CMR Effects*
*Carcinogenicity:*
Suspected of causing cancer

**Additional Information:**
RTECS: BO9000000

**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:
Crystal Violet
Toxicity to fish
S.gairdnerii LC50: 0.7 mg/l; 96 h
Toxicity to bacteria
Bacteria EC50: 10-100 mg/l; 96 h

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)

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
No data available

---

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 :

Page 7 of 9
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
For this product a chemical safety assessment was not carried out.

16 Other information
Text of H codes and classification mentioned in section 3
H226 Flammable liquid and vapour
H302 Harmful if swallowed
H314 Causes severe skin burns and eye damage
H318 Causes serious eye damage
H351 Suspected of causing cancer
H410 Very toxic to aquatic life with long lasting effects
Acute Tox.oral 4 Acute toxicity, oral, Category 4
Aquatic Chronic 1 Hazardous to the aquatic environment, long term hazard, Category 1
Carc. 2 Carcinogenicity, Category 2
Eye Dam. 1 Serious eye damage or eye irritation, Category 1
Flam. Liq. 3 Flammable liquids, Category 3
Skin Corr. 1A Skin corrosion or irritation, Category 1A

Further Information
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