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

1.1 Product Identifiers
Product Number
S126
Product Name
Shorr’s Stain solution
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]
Flammable liquids, (Category 2), H225
Serious eye damage or eye irritation, (Category 2A), H319

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

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.
P305+P351+P338   IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313  IF eye irritation persists: Get medical advice/attention.
P403 + P235  Store in a well-ventilated place. Keep cool.

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>Fast Green FCF</td>
<td>As Per EC Regulation 1272/2008 Muta. 2 H341</td>
<td>&gt;=0.01 - &lt;=1.0%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phosphotungstic acid</td>
<td>As Per EC Regulation 1272/2008 Skin Corr. 1B H314</td>
<td>&gt;=0.1 - &lt;=1.0%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phosphomolybdic acid</td>
<td>As Per EC Regulation 1272/2008 Skin Corr. 1B H314</td>
<td>&gt;=0.1 - &lt;=1.0%</td>
</tr>
</tbody>
</table>

<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 Flam. Liq. 3; Skin Corr. 1A H226; H314</td>
<td>&gt;=0.1 - &lt;=1.0%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl alcohol</td>
<td>As Per EC Regulation 1272/2008 Flam. Liq. 2; Eye Irrit. 2A H225; H319</td>
<td>&gt;=95.0 - &lt;=100.0%</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
Combustible, Vapours are heavier than air and may spread along floors., Development of hazardous combustion gases or vapours possible in the event of fire.

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: Orange to brown clear solution
Odour: No data available
Odour Threshold: No data available
pH: No data available
Melting/freezing point: No data available
Initial boiling point and boiling range: No data available
Flash point: No data available
Flammability (Solid, gas): No data available
Vapour pressure: No data available
Relative density: No data available
Water Solubility: No data available
Partition coefficient: n-octanol/water: No data available
Autoignition Temperature: No data available
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
A risk of explosion and/or toxic gas formation exists with the following substances: Hydrogen peroxide, perchlorates, nitric acid, permanganic acid, nitriles, peroxo compounds, nitrosyl compounds, sodium, potassium, halogen oxides, calcium hypochlorite, nitrogen dioxide, metallic oxides, uranium hexafluoride, iodides, chlorine, alkali metals, alkaline earth metals, alkali oxides, ethylene oxide.
10.4 Conditions to avoid
Excess heat.
10.5 Incompatible materials
Plastic, rubber, 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
Biebrich scarlet
Acute oral toxicity
No data available
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: No data available

**Orange G-6 solution**
*Acute oral toxicity*
No data available
*Acute inhalation toxicity*
No data available
*Acute dermal toxicity*
No data available
*Skin irritation*
Repeated exposure may cause skin irritation and dermatitis
*Eye irritation*
No data available
*Sensitisation*
No data available
*Genetic toxicity (in-vitro)*
No data available
*Genetic toxicity (in-vivo)*
No data available
*Carcinogenicity*
No data available
*Toxicity to Reproduction*
No data available
*Teratogenicity*
No data available

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

**Fast Green FCF**
*Acute oral toxicity*
No data available
*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: No data available

Phosphotungstic acid
Acute oral toxicity
Rat LD50: 3,300 mg/kg
Acute inhalation toxicity
No data available
Acute dermal toxicity
No data available
Skin irritation
Causes burns
Eye irritation
Causes serious eye damage
Sensitisation
No data available
Genetic toxicity (in-vitro)
Ames 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: TH5650000

Phosphomolybdic acid
Acute oral toxicity
No data available
Acute inhalation toxicity
No data available
Acute dermal toxicity
No data available
Skin irritation
Causes burns
Eye irritation
Causes serious eye irritation
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: No data available

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  Ecological Information
12.1  Toxicity
No data available

**Component:**
Biebrich scarlet
*Toxicity*
No data available

**Components:**
Orange G-6 solution
*Toxicity*
No data available

**Component:**
Fast Green FCF
*Toxicity*
No data available

**Components:**
**Phosphotungstic acid**

*Toxicity to daphnia and other aquatic invertebrates*
Daphnia magna (Water flea) EC50: > 100 mg/l; 48 h

**Component:**
**Phosphomolybdic acid**

*Toxicity*
No data available

**Components:**
**Glacial acetic acid**

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

*Toxicity to aquatic invertebrates*
Daphnia magna (Water flea) EC50: 79.5 mg/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

*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
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
H226 Flammable liquid and vapour
H314 Causes severe skin burns and eye damage
H319 Causes serious eye irritation
H341 Suspected of causing genetic defects
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
Muta. 2  Germ cell mutagenicity, Category 2
Skin Corr. 1A  Skin corrosion or irritation, Category 1A
Skin Corr. 1B  Skin corrosion or irritation, Category 1B

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.