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

1.1 Product Identifiers
Product Number M358
Product Name ISP Medium No. 3
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

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

Hazard Identification

2.1 Classification of the substance or mixture
CLP Classification-Regulation (EC) No. 1272/2008[EU-GHS/CLP]
Not a hazardous substance or mixture according to Regulation (EC) No.1272/2008.

2.2 Label elements
Labeling according to Regulation (EC) No.1272/2008
The product does not need to be labelled in accordance with EC directives or respective national laws.

2.3 Other Hazards
None

Composition/Information On Ingredients

3.2 Mixture

<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ferrous sulphate heptahydrate</td>
<td>As Per EC Regulation 1272/2008 Acute Tox.oral 4; Skin Irrit. 2; Eye Irrit. 2A H302; H315; H319</td>
<td>&gt;=0.001 - &lt;=0.01%</td>
</tr>
</tbody>
</table>
### 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 off with soap and plenty of 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.

### 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, Other decomposition products not known.

#### 5.3 Precautions for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

#### 5.4 Further information

Refer Section 16 for complete statement of H codes and its classification.
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 adsorbent material and dispose of as hazardous waste. 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 of 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 2016/425/EEC and the standard EN ISO 374-1/2016 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
Cream to beige coloured homogeneous free flowing powder.
Odour
No data available
Odour Threshold
No data available
pH
7.10 - 7.50
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
No data available
10.4 Conditions to avoid
No data available
10.5 Incompatible materials
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

**Germ cell mutagenicity**
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

**Additional Information**
RTECS : No data available

11.2 **Components**

**Ferrous Sulphate, Heptahydrate**

**Acute Oral Toxicity**
Rat LC50: 319 mg/kg

**Additional Information**
RTECS: NO8510000

**Manganese Chloride, Tetrahydrate**

**Acute Oral Toxicity**
Rat LD50: 1484 mg/kg

Additional Information
RTECS: OO9650000

Zinc Sulphate, Heptahydrate
Acute Oral Toxicity
Rat LD50: 1,260 mg/kg (As Per RTECS)
Additional information
RTECS: ZH5300000

12 Ecological Information
12.1 Toxicity
No data available

Components:
Ferrous Sulphate, heptahydrate
Toxicity to fish
Poecilia reticulata (guppy) LC50: 925 mg/l; 96 h (As Per IUCLID)
Toxicity to daphnia and other aquatic invertebrates
Daphnia magna (Water flea) EC50: 152 mg/l; 48 h (anhydrous substance) (As Per IUCLID)
Toxicity to bacteria
Pseudomonas fluorescens EC50: 100 mg/l; 24 h (anhydrous substance) (As Per IUCLID)

Components
Manganese Chloride, Tetrahydrate
Toxicity to fish
Carassius auratus (goldfish) LC50: 18.8 mg/l; 7 d
Toxicity to daphnia and other aquatic invertebrates
Daphnia magna (Water flea) EC50: >11 mg/l; 48 h

Components
Zinc Sulphate, Heptahydrate
Toxicity to fish
Oncorhynchus mykiss (rainbow trout) LC50: 0.1 mg/l; 96 h
(As Per ECOTOX Database)
Toxicity to algae
Scenedesmus quadricuada (green algae) IC50: 0.52 mg/l; 5 d
(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 substance or mixture contains no components considered to be persistent, bioaccumulating nor 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 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: ADR: IATA_C: IATA_P: IMDG: RID:
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 data sheet 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
H302 Harmful if swallowed
H315 Causes skin irritation
H318 Causes serious eye damage
H319  Causes serious eye irritation
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
Eye Dam. 1  Serious eye damage or eye irritation, Category 1
Eye Irrit. 2A  Serious eye damage or eye irritation, Category 2A
Skin Irrit. 2  Skin corrosion or irritation, Category 2

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.