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

1.1 Product Identifiers
Product Number
M1289
Product Name
SM Selective Agar Base
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.
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]
Hazardous to the aquatic environment, long term hazard, (Category 3), H412

2.2 Label elements
Labeling according to Regulation (EC) No.1272/2008

Signal word None
Hazard Statement(s)
H412 Harmful to aquatic life with long lasting effects
Precautionary Statement(s)
P273 Avoid release to the environment.

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>Manganese sulphate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Component</td>
<td>Classification</td>
<td>Concentration</td>
</tr>
<tr>
<td>-----------</td>
<td>----------------</td>
<td>---------------</td>
</tr>
<tr>
<td>Zinc sulphate heptahydrate</td>
<td>As Per EC Regulation 1272/2008</td>
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<tr>
<td>CAS No. : 7446-20-0</td>
<td>EC No. : 231-793-3</td>
<td>Index-No : 030-006-00-9</td>
</tr>
<tr>
<td>Acute Tox.oral 4; Eye Dam. 1; Aquatic Chronic 1</td>
<td>H302; H318; H410</td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
<td>CAS No. : 7783-85-9</td>
<td>EC No. : 233-151-8</td>
<td>Index-No :</td>
</tr>
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<td>Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3</td>
<td>H315; H319; H335</td>
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</table>

<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copper sulphate pentahydrate</td>
<td>As Per EC Regulation 1272/2008</td>
<td>&gt;=0.01 - &lt;=0.1%</td>
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<tr>
<td>CAS No. : 7758-99-8</td>
<td>EC No. :</td>
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<tr>
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<td>H302; H315; H319; H410</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium iodide</td>
<td>As Per EC Regulation 1272/2008</td>
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<tr>
<td>CAS No. : 7681-11-0</td>
<td>EC No. : 231-659-4</td>
<td>Index-No :</td>
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<tr>
<td>Acute Tox.oral 4; Skin Irrit. 2; Eye Irrit. 2A</td>
<td>H302; H315; H319</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phosphoric acid</td>
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</tr>
<tr>
<td>CAS No. : 7664-38-2</td>
<td>EC No. : 231-633-2</td>
<td>Index-No :</td>
</tr>
<tr>
<td>Skin Corr. 1B</td>
<td>H314</td>
<td></td>
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</tbody>
</table>

Refer Section 16 for complete statement of H codes and its 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, Manganese/manganese oxides, Sulphur oxides, Zinc/zinc 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. 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 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).

#### 9. Physical and chemical properties

**9.1 Information on basic physical and chemical properties**

- **Appearance**: Cream to yellow coloured homogeneous free flowing powder
- **Odour**: No data available
- **Odour Threshold**: No data available
- **pH**: 6.80 - 7.20
- **Melting/freezing point**: No data available
- **Initial boiling point and boiling range**: No data available

Environment exposure controls

Do not empty into drains.
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
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

Additional Information
RTECS: No data available

11.2 Components
Copper sulphate
Acute oral toxicity
Rat LD50: 482 mg/kg
Acute dermal toxicity
Rat LD50: >2000 mg/kg
Skin irritation
Rabbit Result: Non irritant
Eye irritation
Rabbit Result: Highly irritating
Skin sensitization
Guinea pig Result: Non sensitizing
Genetic toxicity (in-vitro)
Ames test
Result: Negative (As Per OECD Test Guideline 471)
Genetic toxicity (in-vivo)
Mouse Micronucleus assay
Result: Negative
Carcinogenicity
Rat Result: Negative
Toxicity to Reproduction
No data available
Teratogenicity
No data available

Additional information:
RTECS: GL8800000

Manganese sulphate
Acute oral toxicity
Rat LD50: 2,150 mg/kg  
(As per IUCLID)

Acute Dermal Toxicity
Rat LD50: Not determined.

Acute Inhalation Toxicity
Rat LC50: > 4.45 mg/l  
(As per OECD Test Guideline 403)

Additional Information
RTECS: OP1050000

Potassium iodide

Acute oral toxicity
Rat LD50: 3118 mg/kg; (As Per OECD Test Guideline 401)

Acute intravenous toxicity
Rat LD50: 285 mg/kg

Skin irritation
No data available

Eye irritation
No data available

Sensitisation
No data available

Genetic toxicity (in-vitro)
Mammalian cell micronucleus test
Result: Negative

Genetic toxicity (in-vivo)
Rat Chromosome aberration assay
Result: Negative

Carcinogenicity
Rat
Not carcinogenic (As per OECD guideline 453)

Teratogenicity
Rat
No developmental toxicity/teratogenicity (ECHA)

Additional information:
RTECS: TT2975000

Phosphoric acid

Acute oral toxicity
Rat LD50: 1,500 mg/kg

Acute inhalation toxicity
No data available

Acute dermal toxicity
Rabbit LD50: > 1260 mg/kg (ECHA)

Skin irritation/Corrosion
Rabbit Result: Corrosive
Eye irritation
Rabbit Result: Non irritant (As per OECD Guideline 405)

Sensitisation
No data available

Genetic toxicity (in-vitro)
Bacterial reverse mutation assay
Result:Negative(As per OECD Guideline 471)

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
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

Component:
Copper sulphate
Toxicity to fish
Oncorhynchus mykiss Flow through test LC50: 200 µg/L;96h
Toxicity to aquatic invertebrates
Daphnia magna(Water flea) Static test LC50: 7 µg/L;48h
Toxicity to aquatic alga and cyanobacteria
Phaeodactylum tricornutum Static test EC10: 2.9 µg/L;72h
Toxicity to terrestrial arthropods
Folsomia fimetaria EC10 :688mg/kg;21d

Components
Manganese sulphate
Toxicity to Fish
Oncorhynchus mykiss (Rainbow trout) LC50 :14.5 mg/l; 96h.
Pimephales promelas (fathead minnow) LC50 : 30.6 mg/l; 96 h.
Toxicity to daphnia and other aquatic invertebrates
Daphnia magna (Water flea) EC50 : 8.3 mg/l; 48 h.
Acute Toxicity to Aquatic Plants
Desmodesmus subspicatus (algae) EC50  61 mg/l; 72 h
(As per OECD Test Guideline 201)
Components:
**Potassium iodide**

*Toxicity to fish*  
Oncorhynchus mykiss (Rainbow trout) Static test: LC50: 3780 mg/L; 96h (As per OECD Guideline 203)

*Toxicity to aquatic invertebrates*  
Daphnia magna (Water flea) Static test: EC50: 10.6 mg/L; 24h (As per OECD Guideline 202)

*Toxicity to aquatic algae and cyanobacteria*  
Scenedesmus quadricauda (green algae) Static test: Toxicity threshold: 2370 mg/L; 7d

Components:
**Phosphoric acid**

*Toxicity to microorganisms*  
Protozoa IC50: 240 mg/L (ECHA)

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**
No data available

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 :

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
H302 Harmful if swallowed
H314 Causes severe skin burns and eye damage
H315 Causes skin irritation
H318 Causes serious eye damage
H319 Causes serious eye irritation
H335 May cause respiratory irritation
H373 May cause damage to organs through prolonged or repeated exposure
H410 Very toxic to aquatic life with long lasting effects
H411 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
Aquatic Chronic 2 Hazardous to the aquatic environment, long term hazard, Category 2
Eye Dam. 1 Serious eye damage or eye irritation, Category 1
Eye Irrit. 2A Serious eye damage or eye irritation, Category 2A
Skin Corr. 1B Skin corrosion or irritation, Category 1B
Skin Irrit. 2 Skin corrosion or irritation, Category 2
STOT RE 2 Specific target organ toxicity, repeated exposure, Category 2
Further Information

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