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

1.1 Product Identifiers
Product Number M1537
Product Name Mannitol Selenite Broth w/ Brilliant Green (Twin Pack)
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]
Acute toxicity, Oral, (Category 3), H301
Acute toxicity, Inhaled, (Category 3), H331
Specific target organ toxicity, repeated exposure, (Category 2), H373
Hazardous to the aquatic environment, long term hazard, (Category 1), H410

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

Pictogram
Signal word Danger

Hazard Statement(s)
H301 Toxic if swallowed
H331 Toxic if inhaled
H373 May cause damage to organs through prolonged or repeated exposure
H410 Very toxic to aquatic life with long lasting effects

Precautionary Statement(s)
P309+P310 If exposed or if you feel unwell: Immediately call a POISON CENTER or doctor/physician.

P304 + P340 IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.

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>Sodium hydrogen selenite (Part B)</td>
<td>As Per EC Regulation 1272/2008</td>
<td>&gt;=90.0 - &lt;=100%</td>
</tr>
<tr>
<td>CAS No. :</td>
<td>7782-82-3</td>
<td>Acute Tox.oral. 3; Acute Tox. inhal. 3; STOT RE 2; Aquatic Chronic 1 H301; H331; H373; H410</td>
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<tr>
<td>EC No. :</td>
<td>231-966-3</td>
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</tr>
<tr>
<td>Index-No :</td>
<td>034-002-00-8</td>
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</table>

<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brilliant green</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. :</td>
<td>633-03-4</td>
<td>Acute Tox.oral 4; Eye Irrit. 2A H302; H319</td>
</tr>
<tr>
<td>EC No. :</td>
<td>211-190-1</td>
<td></td>
</tr>
</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
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, Sodium oxides, Selenium oxides, Oxides of phosphorus, Potassium 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; Face shield (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).

**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>Part A: Cream to pale green homogeneous free flowing powder</td>
</tr>
<tr>
<td></td>
<td>Part B: White to cream homogeneous free flowing powder</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>6.80 - 7.20</td>
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<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>
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<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>
<tr>
<td>Viscosity</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour density</td>
<td>No data available</td>
</tr>
<tr>
<td>Thermal decomposition</td>
<td>No data available</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
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

_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_
11.2 Components

**Sodium Hydrogen Selenite (Sodium Biselenite)**

*Acute oral toxicity*
LD50 Rat: 2.5 mg/kg (As per RTECS)
LD50 Rabbit: 8.6 mg/kg (As per RTECS)

*Acute dermal toxicity*
No data available

*Acute inhalation toxicity*
Toxic if inhaled

*Specific Target Organ Toxicity - Single exposure*
No data available

*Specific Target Organ Toxicity - Repeated exposure*
May cause damage to organs through prolonged and repeated exposures.

Effects: Respiratory system, lungs, Skin, central nervous system, Central vascular system, Gastrointestinal tract.

**Additional information**
RTECS number: VS7500000

**Brilliant Green**

*Acute oral toxicity*
Rat LD50: 410 mg/kg.

*Subacute to chronic toxicity*
Target organs: respiratory system, gastrointestinal, eyes and skin.

*Acute inhalation toxicity*
Symptoms: Possible damages, mucosal irritations

*Acute Dermal toxicity*
No Data Available

*Skin irritation*
Rabbit Result: slight irritation

*Eye irritation*
Rabbit Result: Eye irritation
Causes serious eye irritation.

*Sensitisation*
No Data Available

**Additional Information:**
RTECS: BP6825000

12 Ecological Information
12.1  Toxicity
No data available

Components:
Sodium Hydrogen Selenite (Sodium Biselenite)
Toxicity to fish
Oncorhyncus mykiss (rainbow trout) LC50: 8.1 mg/l; 96h

Toxicity to Daphnia
Daphnia magna (Water flea) EC50: 7.9 mg/l; 48h

Toxicity to Algae
Pseudokirchneriella subcapitata (green algae) IC50: 96.6 mg/l; 72h

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 : 2630 ADR : 2630 IATA_C : 2630 IATA_P : 2630 IMDG : 2630 RID : 2630

14.2  UN proper shipping name
ADNR  :  Selenate or Selenite
ADR    :  Selenate or Selenite
IATA_C :  Selenate or Selenite
IATA_P :  Selenate or Selenite
IMDG   :  Selenate or Selenite
RID    :  Selenate or Selenite

14.3  Transport hazard class(es)

14.4  Packaging group
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

H301  Toxic if swallowed
H302  Harmful if swallowed
H319  Causes serious eye irritation
H331  Toxic if inhaled
H373  May cause damage to organs through prolonged or repeated exposure
H410  Very toxic to aquatic life with long lasting effects
Acute Tox. inhal. 3  Acute toxicity, inhaled, Category 3
Acute Tox.oral 4  Acute toxicity, oral, Category 4
Acute Tox.oral. 3  Acute toxicity, oral, Category 3
Aquatic Chronic 1  Hazardous to the aquatic environment, long term hazard, Category 1
Eye Irrit. 2A  Serious eye damage or eye irritation, Category 2A
STOT RE 2  Specific target organ toxicity, repeated exposure, Category 2

Further Information

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