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

1.1 **Product Identifiers**
- **Product Number**: M643A
- **Product Name**: Mineral Modified Glutamate Medium Base (Double Strength)
- **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]**
  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**

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>Bromocresol purple</td>
<td>As Per EC Regulation 1272/2008</td>
<td>$\geq 0.01 - \leq 0.1%$</td>
</tr>
<tr>
<td>CAS No.:</td>
<td>115-40-2</td>
<td></td>
</tr>
<tr>
<td>EC No.:</td>
<td>204-087-8</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 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.

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
5.2 Special hazards arising from the substance or mixture
Carbon oxides, Sodium oxides, Potassium oxides, Oxides of phosphorus

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 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 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>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Light yellow to green coloured homogenous 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>6.50 - 6.90</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>
<tr>
<td>Viscosity</td>
<td>No data available</td>
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<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

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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

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
Bromocresol purple
**Acute oral toxicity**
No data available

**Acute inhalation toxicity**
May cause respiratory irritation

**Acute dermal toxicity**
No data available

**Skin irritation**
May cause skin irritation

**Eye irritation**
May cause eye irritation

**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

---

**Calcium chloride**

*Acute oral toxicity*
Rat LD50 : 1,000 mg/kg
(As per IUCLID)

*Acute dermal toxicity*
Rat LD50 : 2,630 mg/kg
(As per IUCLID)

**Skin irritation**
Rabbit
Result : No irritation
(As per OECD Test Guideline 404)

**Eye irritation**
Rabbit
Result: Eye irritation
(As per OECD Test Guideline 405)
Causes serious eye irritation.

**Additional Information**
RTECS: EV98000000
**Ferric ammonium citrate**

*Acute Oral Toxicity*

Rat LD50: >2000 mg/kg

*Acute Potential Health Effects*

**Skin**

Contact may cause irritation or rash, particularly with moist skin.

**Eyes**

May cause eye irritation with redness, tearing, and abrasion.

**Inhalation**

Inhalation of high concentrations of dust may cause nasal, throat or lung irritation. Symptoms may include coughing and wheezing.

**Ingestion**

Ingestion can produce gastrointestinal tract irritation with hyper motility, diarrhea.

*Chronic Potential Health Effects*

**Eyes**

Prolonged eye contact may cause a brownish discoloration of the eyes.

**Skin**

Prolonged skin contact may cause skin irritation.

**Additional information:**

RTECS: GE7540000

**Niacin (Nicotinic acid)**

*Acute oral toxicity*

Rat LD50: >5000 mg/kg; 24h (ECHA)

*Acute dermal toxicity*

Rat LD50: >2000 mg/kg; 24h (ECHA)

*Acute inhalation toxicity*

Rat LD50: >3.8 mg/L; 4h (ECHA)

**Skin irritation**

Rabbit: Does not cause irritation to skin (ECHA)

**Eye irritation**

Rabbit: May cause slight to mild irritation to eyes (ECHA)

**Sensitisation**

Nonsensitizer (ECHA)

Repeated Exposures

No significant effect seen on rats (ECHA)

**Germ cell mutagenicity**

Genotoxicity invitro

Chinese hamster Ovary (CHO)

Result: Negative (ECHA)

Genotoxicity invivo

Mammalian Bone Marrow Chromosome Aberration Test

Result: Negative (ECHA)

**Mutagenicity (mammal cell test): micronucleus**

No data available

**Carcinogenicity**
No data available

Reproductive toxicity
No data available

Teratogenicity
Rats, 20 d
Result: Negative (ECHA)

Additional information
RTECS QT0525000

12 Ecological Information

12.1 Toxicity
No data available

Components
Calcium chloride
Toxicity to fish
Lepomis macrochirus (Bluegill sunfish) LC50 : 10,650 mg/l; 96 h (As per IUCLID)
Toxicity to daphnia and other aquatic invertebrates
Daphnia magna (Water flea) EC50 : 144 mg/l; 48 h (As per IUCLID)
Toxicity to algae
Algae EC50 : 3,130 mg/l; 120 h (As per IUCLID)

Components
Niacin (Nicotinic acid)
Toxicity to fish
Brown trout (Salmo Trutta Fario) LC50: 520 mg/l; 96 h (ECHA)
Toxicity to daphnia and other aquatic invertebrates
Daphnia magna EC50: 77 mg/L; 48 h (ECHA)
Toxicity to algae
Desmodesmus subspicatus Scenedesmus subspicatus)
EC50: 89.93 mg/L 72 h (ECHA)
Toxicity to microorganisms
Pseudomonas putida EC50: 120 mg/L; 16 h (ECHA)
Pseudomonas putida EC10: 88 mg/L; 16 h (ECHA)

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 : 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
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H315</td>
<td>Causes skin irritation</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation</td>
</tr>
<tr>
<td>H335</td>
<td>May cause respiratory irritation</td>
</tr>
<tr>
<td>Eye Irrit. 2A</td>
<td>Serious eye damage or eye irritation, Category 2A</td>
</tr>
<tr>
<td>Skin Irrit. 2</td>
<td>Skin corrosion or irritation, Category 2</td>
</tr>
<tr>
<td>STOT SE 3</td>
<td>Specific target organ toxicity, single exposure, Respiratory tract irritation, Category 3</td>
</tr>
</tbody>
</table>

Further Information

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