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

1.1 Product Identifiers
Product Number M643I
Product Name Minerals Modified Glutamate Agar Base (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

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>Ferric ammonium citrate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAS No.:</td>
<td>1185-57-5</td>
<td></td>
</tr>
<tr>
<td>EC No.:</td>
<td>214-686-6</td>
<td></td>
</tr>
<tr>
<td></td>
<td>As Per EC Regulation 1272/2008</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>H315; H319; H335</td>
<td></td>
</tr>
<tr>
<td></td>
<td>&gt;=0.01 - &lt;=0.1%</td>
<td></td>
</tr>
</tbody>
</table>

www.himedialabs.com
Safety data sheet (SDS)
Revision: 00000
Date of Revision: 18.07.2019
<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nicotinic acid</td>
<td>As Per EC Regulation 1272/2008</td>
<td>&gt;=0.001 - &lt;=0.01%</td>
</tr>
<tr>
<td>CAS No.: 59-67-6</td>
<td>Eye Irrit. 2A H319</td>
<td></td>
</tr>
<tr>
<td>EC No.: 200-441-0</td>
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<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium chloride, dihydrate</td>
<td>As Per EC Regulation 1272/2008</td>
<td>&gt;=0.01 - &lt;=0.1%</td>
</tr>
<tr>
<td>CAS No.: 10035-04-8</td>
<td>Eye Irrit. 2A H319</td>
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</tr>
<tr>
<td>EC No.: 233-140-8</td>
<td></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**
   No data available.

5.2 Special hazards arising from the substance or mixture
   Carbon oxides, Sodium oxides, Sulphur oxides, Iron oxides, Calcium oxide, Magnesium 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
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**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance</strong></td>
<td>Part A : Off-white to light yellow homogeneous free flowing powder Part B : White to cream needles</td>
</tr>
<tr>
<td><strong>Odour</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Odour Threshold</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>pH</strong></td>
<td>6.50 - 6.90</td>
</tr>
<tr>
<td><strong>Melting/freezing point</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Initial boiling point and boiling range</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Flash point</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Flammability (Solid, gas)</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Vapour pressure</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Relative density</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Water Solubility</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Partition coefficient: n-octanol/water</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Autoignition Temperature</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Viscosity</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Explosive properties</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Oxidizing properties</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Vapour density</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Thermal decomposition</strong></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  
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

Ferric ammonium citrate  

Acute Oral Toxicity  
RatLD50: >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)
12  Ecological Information
12.1  Toxicity
No data available
Ammonium Ferric Citrate
Eco toxicity
No data available.

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

H315 Causes skin irritation
H319 Causes serious eye irritation
H335 May cause respiratory irritation
Eye Irrit. 2A Serious eye damage or eye irritation, Category 2A
Skin Irrit. 2 Skin corrosion or irritation, Category 2
STOT SE 3 Specific target organ toxicity, single exposure, Respiratory tract irritation, Category 3

Further Information

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