

**1 Identification of the substances/ mixture and of the company/ undertaking****1.1 Product Identifiers**

Product Number M769  
Product Name Chlorella Broth Base w/o Dextrose and Citrate  
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  
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**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]**

Oxidising solids, (Category 3), H272

**2.2 Label elements**

**Labeling according to Regulation (EC) No.1272/2008**



Pictogram

Signal word Warning

Hazard Statement(s)

H272 May intensify fire; oxidizer

Precautionary Statement(s)

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.

P221 Take any precaution to avoid mixing with combustibles.

**2.3 Other Hazards**

None

### 3 Composition/Information On Ingredients

#### 3.2 Mixture

| Component                                 | Classification   | Concentration          |
|---|--|------------------------|
| Cupric sulphate                           |  |                        |
| CAS No. : 7758-98-7<br>EC No. : 231-847-6 | <b>As Per EC Regulation 1272/2008</b><br>Acute Tox.oral 4; Skin Irrit. 2; Eye Irrit. 2A H302; H315; H319 | >=0.0001 -<br><=0.001% |

| Component                                 | Classification   | Concentration        |
|---|--|----------------------|
| Zinc sulphate                             |  |                      |
| CAS No. : 7446-19-7<br>EC No. : 231-793-3 | <b>As Per EC Regulation 1272/2008</b><br>Eye Dam. 1; Aquatic Chronic 1 H318;<br>H410 | >=0.001 -<br><=0.01% |

| Component   | Classification   | Concentration        |
|---|--|----------------------|
| Boric acid  |  |                      |
| CAS No. : 10043-35-3<br>EC No. : 233-139-2<br>Index-No : 005-007-00-2 | <b>As Per EC Regulation 1272/2008</b><br>Repr.Tox. 1A, 1B H360 | >=0.001 -<br><=0.01% |

| Component                                 | Classification  | Concentration   |
|---|---|-----------------|
| Manganese sulphate                        |   |                 |
| CAS No. : 7785-87-7<br>EC No. : 232-089-9 | <b>As Per EC Regulation 1272/2008</b><br>STOT RE 2; Aquatic Chronic 2 H373;<br>H411 | >=0.01 - <=0.1% |

| Component   | Classification   | Concentration   |
|---|--|-----------------|
| Ferrous sulphate  |  |                 |
| CAS No. : 7720-78-7<br>EC No. : 231-753-5<br>Index-No : 026-003-00-7<br>Molecular Formula : FeSO <sub>4</sub> | <b>As Per EC Regulation 1272/2008</b><br>Acute Tox.oral 4; Skin Irrit. 2; Eye Irrit. 2A H302; H315; H319 | >=0.01 - <=0.1% |

| Component                                 | Classification   | Concentration    |
|---|--|------------------|
| Potassium nitrate                         |  |                  |
| CAS No. : 7757-79-1<br>EC No. : 231-818-8 | <b>As Per EC Regulation 1272/2008</b><br>Ox. Sol. 3 H272 | >=30.0 - <=50.0% |

Refer Section 16 for complete statement of H codes and its classification

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## **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

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## **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**

Potassium oxides, Magnesium oxide, Sulphur oxides, Oxides of phosphorus, Nitrogen oxides (NO<sub>x</sub>),

### **5.3 Precautions for fire-fighters**

Wear self contained breathing apparatus for fire fighting if necessary

### **5.4 Further information**

No data available

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## **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.

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## **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.

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## **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.

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## **9 Physical and chemical properties**

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

Appearance

White to Cream coloured homogenous free flowing powder

|   |                   |
|---|-------------------|
| Odour                                   | No data available |
| Odour Threshold                         | No data available |
| pH                                      | 4.30 - 4.70       |
| 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

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

#### ***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**

**Boric Acid**

*Acute Toxicity*

Rat oral LD50 : 2660 mg/kg

Rabbit dermal LD50 : 2000 mg/kg

Mouse Oral: LD50 = 3450 mg/kg.

**Additional information**

RTECS : ED4550000

Specific concentration limits (SCL): >5.5%

Boric acid is included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH)

**Ferrous sulphate**

*Acute Oral Toxicity*

Mouse LD50: 1.520 mg/kg

**Additional Information**

RTECS: NO8510000

**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 nitrate**

*Acute oral toxicity*

Rat LD50: 3,750 mg/kg

(As per IUCLID)

*Acute Dermal Toxicity*

Rat LD50 : > 5000 mg/kg

(As per OECD Test Guideline 402)

*Acute inhalation toxicity*

Rat LC50 : > 0.527 mg/L ; 4 h

(As per OECD Test Guideline 403)

**Additional Information**

RTECS: TT370000

Zinc Sulphate, Heptahydrate

Acute Oral Toxicity

Rat LD50: 1,260 mg/kg (As Per RTECS)

Additional information

RTECS: ZH5300000

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**12 Ecological Information**

**12.1 Toxicity**

No data available

**Component**

**Boric Acid**

*Toxicity to fish*

Gambusia affinis LC50 :5600 mg/l

Rainbow trout LC50:150mg B/L;24d

Goldfish LC50:46mg; 7d

*Toxicity to daphnia and other aquatic invertebrates*

Daphnia EC50 :115 mg/l

**Components**

**Ferrous sulphate**

*Toxicity to fish*

Brook trout (Salvelinus fontinalis) LC 50: 0.41 mg/l ; 96h

*Toxicity to daphnia and other aquatic invertebrates*

Water flea (Daphnia magna) EC 50:6.15 mg/l;48h

**Components**

**Manganese sulphate**

*Toxicity to Fish*

Onchorhynchus 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 nitrate**

*Toxicity to Fish*

Bluegill (Lepomis macrochirus)LC50 :420 mg/kg;96 h.

Western mosquitofish (Gambusia affinis) LC 50 :62 mg/kg ; 96h.

Poecilia reticulata (guppy)LC50 :191 mg/l; 96 h

*Toxicity to daphnia and other aquatic invertebrates*

Daphnia magna (Water flea)EC50 : 490 mg/l; 48 h

(As per IUCLID)

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

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## **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

|                   |  |
|-------------------|--|
| H272              | May intensify fire; oxidizer                                       |
| H302              | Harmful if swallowed   |
| H315              | Causes skin irritation   |
| H318              | Causes serious eye damage  |
| H319              | Causes serious eye irritation                                      |
| H360              | May damage fertility or the unborn child                           |
| 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                  |
| Ox. Sol. 3        | Oxidising solids, Category 3                                       |
| Repr.Tox. 1A, 1B  | Reproductive toxicity, Category 1A, 1B                             |

Skin Irrit. 2  
STOT RE 2

Skin corrosion or irritation, Category 2  
Specific target organ toxicity, repeated exposure, Category 2

### **Further Information**

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