

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

Product Number M1541
Product Name BG 11 Broth
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 C - 40,Road No.21Y,MIDC, Wagle Industrial Area, Thane(W), - 400 604, India

Tel. No. +91-22- 6147 1919/6116 9797 Fax No. : +91-22- 61471920
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]

Oxidising solids, (Category 3), H272
Acute toxicity, Oral, (Category 4), H302
Skin corrosion or irritation, (Category 2), H315
Serious eye damage or eye irritation, (Category 2A), H319
Specific target organ toxicity, single exposure, Respiratory tract irritation, (Category 3), H335

2.2 Label elements

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



Pictogram
Signal word Warning

Hazard Statement(s)

H272 May intensify fire; oxidizer
H302 Harmful if swallowed
H315 Causes skin irritation
H319 Causes serious eye irritation
H335 May cause respiratory irritation

Precautionary Statement(s)

- P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P301 + P312 IF SWALLOWED: call a POISON CENTER or doctor/physician IF you feel unwell.
- P302 + P352 IF ON SKIN: wash with plenty of soap and water.
- P304 + P312 IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.
- P332 + P313 IF SKIN irritation occurs: Get medical advice/attention
- P337 + P313 IF eye irritation persists: Get medical advice/attention.

2.3 Other Hazards

None

3 Composition/Information On Ingredients

3.2 Mixture

Component	Classification	Concentration
Sodium nitrate		
CAS No. : 7631-99-4 EC No. : 231-554-3	As Per EC Regulation 1272/2008 Ox. Sol. 3; Acute Tox.oral 4; Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3 H272; H302; H315; H319; H335	>=90 - <=100%

Component	Classification	Concentration
Calcium chloride,dihydrate		
CAS No. : 10035-04-8 EC No. : 233-140-8	As Per EC Regulation 1272/2008 Eye Irrit. 2A H319	>=1.0 - <=10%

Component	Classification	Concentration
Sodium carbonate		
CAS No. : 497-19-8 EC No. : 207-838-8 Index-No : 011-005-00-2	As Per EC Regulation 1272/2008 Eye Irrit. 2A H319	>=1.0 - <=10%

Component	Classification	Concentration
Ferric ammonium citrate		
CAS No. : 1185-57-5 EC No. : 214-686-6	As Per EC Regulation 1272/2008 Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3 H315; H319; H335	>=0.1 - <=1.0%

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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

Sodium oxides, Magnesium oxides, Hydrogen chloride gas, 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; 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

Appearance

Off white to cream homogeneous free

	flowing powder
Odour	No data available
Odour Threshold	No data available
pH	7.10
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. Other Decomposition products not known.

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**Sodium nitrate*****Acute Oral Toxicity***

Mouse LD50: 3500 mg/kg

Rabbit LD50: 2680 mg/kg

Rat LD50 : 1267 mg/kg

Acute Inhalation Toxicity

Rat LC50 : 5.5 mg/l; 4 h

Additional Information

RTECS: WC5600000

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

Sodium carbonate

Acute Oral Toxicity

Rat LD50: 4090 mg/kg

Acute inhalation toxicity

Rat LC50: 5750 mg/l; 2 h

Additional information

RTECS: VZ4050000

12 Ecological Information

12.1 Toxicity

No data available for this mixture

Components

Sodium nitrate

Toxicity to Fish

Oncorhynchus mykiss LC50 : 994.4 - 1107 mg/L; 96h

Lepomis macrochirus LC50: 2000 mg/L; 96h

Ammonium Ferric Citrate

Eco toxicity

No data available.

Components:

Sodium carbonate

Toxicity to fish

Lepomis macrochirus (bluegill)LC50: 300 mg/l; 96 h

Toxicity to daphnia

Daphnia magna (water flea)EC50: 265 mg/l; 48 h

Daphnia magna (water flea)EC50: 265 mg/l; 72 h

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 : 1498 ADR : 1498 IATA_C : 1498 IATA_P : 1498 IMDG : 1498 RID : 1498

14.2 UN proper shipping name

ADNR : Sodium nitrate
ADR : Sodium nitrate
IATA_C : Sodium nitrate
IATA_P : Sodium nitrate
IMDG : Sodium nitrate
RID : Sodium nitrate

14.3 Transport hazard class(es)

ADNR : 5.1 ADR : 5.1 IATA_C : 5.1 IATA_P : 5.1 IMDG : 5.1 RID : 5.1

14.4 Packaging group

ADNR : III ADR : III IATA_C : III IATA_P : III IMDG : III RID : III

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
H319 Causes serious eye irritation

H335	May cause respiratory irritation
Acute Tox.oral 4	Acute toxicity, oral, Category 4
Eye Irrit. 2A	Serious eye damage or eye irritation, Category 2A
Ox. Sol. 3	Oxidising solids, Category 3
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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The information given in this safety data sheet is believed to be correct yet does not claim to be all inclusive. This document is intended only as a guide for appropriate precautionary handling of the material by properly trained individuals, information here being commensurate with the present state of our knowledge regarding the manner and conditions of use, handling, storage or disposal. The information provided herein shall not be considered as guarantee of the properties of the product. HiMedia Laboratories, shall not be held liable for any damage resulting from improper handling or contact with the above product. Unless explicitly stated on the product or in any of the documentation accompanying the product, it is intended for research or testing purpose only and is not to be used for any other purpose.