www.himedialabs.com LIMENI/ Safety data sheet(SDS) According to Regulation (EC) No.1907/2006 Revision : 00002 Date of Revision : 07.03.2022 1 Identification of the substances/ mixture and of the company/ undertaking 1.1 **Product Identifiers** Product Number M1958 Product Name BG11 Broth w/Minerals REACH Registration Number This product is a mixture. Reach registration number is not available for this mixture. Relevant identified uses of the substance or mixture and uses advised against 1.2 Relevant identified uses Laboratory Chemicals, Analytical Purpose, Biochemical Analysis 1.2.1 Details of the supplier of the safety data sheet 1.3 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

Pictogram

2.1 Classification of the substance or mixture CLP Classification-Regulation (EC) No. 1272/2008[EU-GHS/CLP]

Oxidising solids, (Category 3), H272 Serious eye damage or eye irritation, (Category 2A), H319

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



Signal word	Warning
Hazard Stateme	nt(s)
H272	May intensify fire; oxidizer
H319	Causes serious eye irritation
Precautionary St	atement(s)
P210	Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
P220	Keep/Store away from clothing/combustible materials.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P33	8 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

Page **1** of **11**

lenses, if present and easy to do. Continue rinsing.

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	As Per EC Regulation 1272/2008	>=80 - <=90%
EC No. :	231-554-3	Ox. Sol. 3; Acute Tox.oral 4; Skin Irrit. 2;	
		Eye Irrit. 2A; STOT SE 3 H272; H302;	
		H315; H319; H335	

Со	mponent	Classification	Concentration
Calcium chlorid	e,dihydrate		
CAS No. :	10035-04-8	As Per EC Regulation 1272/2008	>=1.0 - <=3.0%
EC No. :	233-140-8	Eye Irrit. 2A H319	

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

Cor	nponent	Classification	Concentration
Sodium carbonat	e		
CAS No. :	497-19-8	As Per EC Regulation 1272/2008	>=1.0 - <=10.0%
EC No. :	207-838-8	Eye Irrit. 2A H319	
Index-No :	011-005-00-2		

	Component	Classification	Concentration
Boric acid			
CAS No. :	10043-35-3	As Per EC Regulation 1272/2008	>=0.1 - <=1.0%
EC No. :	233-139-2	Repr.Tox. 1A, 1B H360	
Index-No :	005-007-00-2		

Page **2** of **11**

Co	mponent	Classification	Concentration
Manganese chlo	oride tetrahydrate		
CAS No. :	13446-34-9	As Per EC Regulation 1272/2008	>=0.1 - <=1.0%
EC No. :	231-869-6	Acute Tox.oral 4 H302	

Component		Classification	Concentration
Zinc sulphate he	ptahydrate		
CAS No. :	7446-20-0	As Per EC Regulation 1272/2008	>=0.1 - <=1.0%
EC No. :	231-793-3	Acute Tox.oral 4; Eye Dam. 1; Aquatic	
Index-No :	030-006-00-9	Chronic 1 H302; H318; H410	

Co	mponent	Classification	Concentration
Copper sulphate	e pentahydrate		
CAS No. :	7758-99-8	As Per EC Regulation 1272/2008 H302; H315; H319; H410	>=0.1 - <=1.0%

Co	mponent	Classification	Concentration
Cobalt nitrate, h	exahydrate		
CAS No. :	10026-22-9	As Per EC Regulation 1272/2008	>=0.1 - <=1.0%
EC No. :	233-402-1	Ox. Liq. 2; Acute Tox.oral 4; Skin Sens. 1;	
		Resp. Sens. 1; Muta. 2; Carc. 1B; Repr.	
		1B; Aquatic Chronic 1 H272; H302;	
		H317; H334; H341; H350i; H360; H410	
Pofor Soction 1	for complete statem		

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, Nitrogen oxides (NOx),
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.
6.7	Evacuate personnel to safe areas.
6.2	Environmental precautions
6.3	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Methods and materials for containment and cleaning up
0.5	Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.
6.4	Reference to other sections
J. 4	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.
7 2	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.
3	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
	Page 4 of 11

Hygiene measure

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with the product.

Eye/face protection

Tightly fitting saftey 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**

Information on basic physical and chemical properties 9.1

Appearance

Odour
Odour Threshold
рН
Melting/freezing point
Initial boiling point and boiling range
Flash point
Flammability (Solid, gas)
Vapour pressure
Relative density
Water Solubility
Partition coefficient: n-octanol/water
Autoignition Temperature
Viscosity
Explosive properties
Oxidizing properties
Vapour density
Thermal decomposition

9.2 Other safety information

No data available

Off white to cream homogeneous free flowing powder No data available No data available 7.10 No data available No data available

No data available

10	Stability and Reactivity		
10.1	10.1 Reactivity		
	No data available		
10.2	Chemical stability		
	No data available		
10.3	0.3 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. 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 **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

Page 6 of 11

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 **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) **Manganese Chloride, Tetrahydrate** *Acute Oral Toxicity* Rat LD50 : 1484 mg/kg **Additional Information** RTECS: 009650000

Zinc Sulphate, Heptahydrate Acute Oral Toxicity Rat LD50: 1,260 mg/kg (As Per RTECS) Additional information RTECS: ZH5300000

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

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

Manganese Chloride, Tetrahydrate

Toxicity to fish Carassius auratus(goldfish)LC50 : 18.8 mg/l;7 d *Toxicity* to daphnia and other aquatic invertebrates Daphnia magna(Water flea) EC50 : >11 mg/l ; 48 h

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

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 goodsADR:Not dangerous goodsIATA_C:Not dangerous goodsIATA_P:Not dangerous goodsIMDG:Not dangerous goodsRID:Not dangerous goods

14.3 Transport hazard class(es)

ADNR : - ADR : - IATA	_C: - IATA_P: - IMDG: - RID: -		
14.4 Deckering group			
14.4 Packaging group ADNR : III ADR :	III IATA_C : III IATA_P : III IMDG : III RID : III		
	Environmental hazards ADNR : No ADR : No IMDG : Marine Pollutant No IATA_C : No IATA_P : No RID : No		
14.6 Special precautions for	Special precautions for use		
No data available			
	Regulatory Information This safety datasheet complies with the requirements of Regulation(EC) No. 1907/2006.		
•	Safety health and environment regulations/legislation specific for the substance or		
mixture No data available			
15.2 Chemical Safety Assess	Chemical Safety Assessment		
No data available			
.6 Other information			
Text of H codes and clas	Text of H codes and classification mentioned in section 3		
H272	May intensify fire; oxidizer		
H302	Harmful if swallowed		
H315	Causes skin irritation		
H317	May cause an allergic skin reaction		
H318	Causes serious eye damage		
H319	Causes serious eye irritation		
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled		
H335	May cause respiratory irritation		
H341	Suspected of causing genetic defects		
H350i	May cause cancer by inhalation		
H360	May damage fertility or the unborn child		
H410	Very 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		
Carc. 1B	Carcinogenicity, Category 1B		
Eye Dam. 1	Serious eye damage or eye irritation, Category 1		
Eye Irrit. 2A	Serious eye damage or eye irritation, Category 2A		
Muta. 2	Germ cell mutagenicity, Category 2		
Ox. Liq. 2	Oxidising liquids, Category 2		
Ox. Sol. 3	Oxidising solids, Category 3		
Repr. 1B	Reproductive toxicity, Category 1B		
Repr.Tox. 1A, 1B	Reproductive toxicity, Category 1A, 1B		
Resp. Sens. 1	Sensitisation, respiratory, Category 1		
Skin Irrit. 2	Skin corrosion or irritation, Category 2		
Skin Sens. 1	Sensitisation, Skin, Category 1		
STOT SE 3	Specific target organ toxicity, single exposure, Respiratory tract irritation, Category 3		
	Page 10 of 11		

Further Information

Copyright 2016 HiMedia Laboratories Pvt. Ltd.

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.