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Safety data sheet(SDS)

According to Regulation (EC) No.1907/2006

Revision: 00003

Date of Revision: 17.02.2022

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

1.1 Product Identifiers

Product Number M350

Product Name Bushnell Haas 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

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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 2), H272

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

H315 Causes skin irritation

H319 Causes serious eye irritation

H335 May cause respiratory irritation

Precautionary Statement(s)

P220 Keep/Store away from clothing/combustible materials.

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

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

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

P332 + P313 IF SKIN irritation occurs: Get medical advice/attention
P337 + P313 IF eye irritation persists: Get medical advice/attention.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

2.3 Other Hazards

None

3 Composition/Information On Ingredients

3.2 Mixture

Component		Classification	Concentration
Ammonium nitr	ate		
CAS No.:	6484-52-2	As Per EC Regulation 1272/2008	>=30 - <=40%
EC No.:	229-347-8	Ox. Sol. 3; Skin Irrit. 2; Eye Irrit. 2A;	
		STOT SE 3 H272; H315; H319; H335	

Component		Classification	Concentration		
Calcium chloride,anhydrous					
CAS No.:	10043-52-4	As Per EC Regulation 1272/2008	>=0.1 - <=1.0%		
EC No.:	233-140-8	Eye Irrit. 2A H319			

Component		Classification	Concentration
Ferric chloride			
CAS No.:	7705-08-0	As Per EC Regulation 1272/2008	>=1.0 - <=5.0%
EC No.:	231-729-4	Met. Corr. 1; Acute Tox.oral 4; Skin Irrit.	
		2; Eye Dam. 1 H290; H302; H315;	
		H318	

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

Nitrogen oxides (NOx), Sulphur oxides, Oxides of phosphorus, Potassium oxides, Hydrogen chloride gas, Magnesium oxides, Iron 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 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

9.1 Information on basic physical and chemical properties

Appearance White to Cream coloured homogenous free

flowing powder
No data available

Odour No data available
Odour Threshold No data available
pH 6.80 - 7.20

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 No data available Vapour pressure No data available Relative density 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

Ammonium nitrate

Acute oral toxicity

LD50 rat: 2,462 mg/kg

Symptoms: Nausea, Vomiting, Diarrhoea, Irritations of mucous membranes in the mouth, pharynx,

oesophagus and gastrointestinal tract.

(OECD Test Guideline 401)

Acute inhalation toxicity

LC50 rat: > 88.8 mg/l; 4 h (IUCLID)

Symptoms: Inhalation may lead to the formation of oedemas in the respiratory tract.

(OECD Test Guideline 401)

Additional Information:

RTECS:BR9050000

Further information:

After absorption of large quantities:

Symptoms: Methaemoglobinaemia with headache, cardiac arrhythmia, drop in blood pressure, dyspnoea, and spasms, key symptom: cyanosis (blue colouration of the blood). The following applies to ammonium salts in general: after swallowing: local irritation symptoms, nausea, vomiting and diarrhoea. Systemic effect: after the uptake of very large quantities: drop in blood pressure, collapse, CNS disorders, spasms, narcotic conditions, respiratory paralysis and haemolysis.

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: EV9800000

Ferric chloride

Acute oral toxicity

Rat LD50: 3,200mg/kg (As per OECD Guideline 401)

Acute inhalation toxicity

No data available Acute dermal toxicity

Rabbit LD50: > 559mg/kg (As per EPA OPP 81-2)

Skin irritation

Rabbit Result: Non Irritant(As per OECD Guideline 404)

Eye irritation

Rabbit Result: Irreversible effects on the eye (ECHA)

Sensitisation

Guinea pig Result: Not sensitising

Genetic toxicity(in-vitro)

Mammalian cell gene mutation assay Mouse lymphoma cells Result :Negative

Genetic toxicity(in-vivo)

Mouse Result: Positive (ECHA)

Carcinogenicity
No data available

Toxicity to Reproduction

No data available Teratogenicity

No data available

Additional information:

RTECS: LJ9100000

12 Ecological Information

12.1 Toxicity

No data available

Components:

Ammonium Nitrate

Toxicity to fish

LC50 Cyprinus carpio (Carp): 74 mg/l; 48 h (IUCLID) Toxicity to daphnia and other aquatic invertebrates EC50 Daphnia magna (Water flea): 555 mg/l(IUCLID)

Toxicity to algae

IC50 Scenedesmus quadricauda (Green algae): 83 mg/l(IUCLID)

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

AlgaeIC50: 3,130 mg/l; 120 h

(As per IUCLID)

Components:

Ferric chloride

Toxicity to microorganisms

Activated sludge IC50: ca. 170 mg/L (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

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: 1479 ADR: 1479 IATA C: 1479 IATA P: 1479 IMDG: 1479 RID: 1479

14.2 UN proper shipping name

ADNR : Oxidizing solid, n.o.s.
ADR : Oxidizing solid, n.o.s.
IATA_C : Oxidizing solid, n.o.s.
IATA_P : Oxidizing solid, n.o.s.
IMDG : Oxidizing solid, n.o.s.
RID : Oxidizing solid, n.o.s.

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
H290 May be corrosive to metals
H302 Harmful if swallowed
H315 Causes skin irritation
H318 Causes serious eye damage
H319 Causes serious eye irritation

H335 May cause respiratory irritation Acute Tox.oral 4 Acute toxicity, oral, Category 4

Eye Dam. 1 Serious eye damage or eye irritation, Category 1
Eye Irrit. 2A Serious eye damage or eye irritation, Category 2A

Met. Corr. 1 Corrosive to metals, Category 1 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.