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Safety data sheet(SDS)

According to Regulation (EC) No.1907/2006

Revision: 00002

Date of Revision: 03.03.2022

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

1.1 Product Identifiers

Product Number M1720

Product Name Azospirillum Medium w/o Agar (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

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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]

Acute toxicity, Oral, (Category 4), H302

Skin corrosion or irritation, (Category 1A), H314

Serious eye damage or eye irritation, (Category 2A), H319

2.2 Label elements

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



Pictogram

Signal word Danger

Hazard Statement(s)

H302 Harmful if swallowed

H314 Causes severe skin burns and eye damage

H319 Causes serious eye irritation

Precautionary Statement(s)

P264 Wash body parts in contact thoroughly after handling.

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

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P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin

with water [or shower].

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

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
Manganese sulpl	nate		
CAS No.:	10034-96-5	As Per EC Regulation 1272/2008	>=0.1 - <=1.0%
EC No.:	232-089-9	STOT RE 2; Aquatic Chronic 2 H373;	
Index-No :	025-003-00-4	H411	

Component		Classification	Concentration
Ferrous sulphate			
CAS No.:	7720-78-7	As Per EC Regulation 1272/2008	>=0.1 - <=1.0%
EC No.:	231-753-5	Acute Tox.oral 4; Skin Irrit. 2; Eye Irrit.	
Index-No :	026-003-00-7	2A H302; H315; H319	
Molecular Formula :	FeSO ₄		

Component		Classification	Concentration	
Calcium chloride, anhydrous				
CAS No.:	10043-52-4	As Per EC Regulation 1272/2008	>=1.0 - <=10.0%	
EC No.:	233-140-8	Eye Irrit. 2A H319		

Component		Classification	Concentration
L -(-) Malic acid	l		
CAS No.:	97-67-6	As Per EC Regulation 1272/2008	>=50.0 - <=100%
EC No.:	230-022-8	Acute Tox.oral 4; Skin Irrit. 2; Eye Dam. 1; STOT SE 3 H302; H315; H318; H335	

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

Carbon oxides, Hydrogen chloride gas, Sodium oxides, Oxides of phosphorus, Potassium oxides, Iron oxides, Sulphur oxides, Magnesium 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

Part A: Cream to yellow homogeneous free flowing powder Part B: White to cream pellets

Odour

Odour Threshold

рΗ

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

No data available No data available

6.60 - 7.00

No data available

No data available

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

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

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

Ferrous sulphate

Acute Oral Toxicity

Mouse LD50: 1.520 mg/kg

Additional Information

RTECS: NO8510000

12 Ecological Information

12.1 Toxicity

No data available

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

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

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

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

Discharge into the environment must be avoided.

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

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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

H302 Harmful if swallowed
H315 Causes skin irritation
H318 Causes serious eye damage
H319 Causes serious eye irritation
H335 May cause respiratory irritation

Text of H codes and classification mentioned in section 3

H373 May cause damage to organs through prolonged or repeated

exposure

H411 Toxic to aquatic life with long lasting effects

Acute Tox.oral 4 Acute toxicity, oral, Category 4

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

Skin Irrit. 2 Skin corrosion or irritation, Category 2

STOT RE 2 Specific target organ toxicity, repeated exposure, 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.