www.himedialabs.com Safety data sheet(SDS) According to Regulation (EC) No.1907/2006 Revision : 00002 Date of Revision : 21.02.2022 1 Identification of the substances/ mixture and of the company/ undertaking 1.1 **Product Identifiers** Product Number M596 Product Name **MP-5 Medium** This product is a mixture. Reach registration number is not available for REACH Registration Number this mixture. Relevant identified uses of the substance or mixture and uses advised against 1.2 1.2.1 Relevant identified uses Laboratory Chemicals, Analytical Purpose, Biochemical Analysis 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

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

Not a hazardous substance or mixture according to Regulation (EC) No.1272/2008.

2.2 Label elements

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

The product does not need to be labelled in accordance with EC directives or respective national laws.

2.3 Other Hazards

None

3 Composition/Information On Ingredients

3.2 Mixture

	Component	Classification	Concentration
Boric acid			
CAS No. :	10043-35-3	As Per EC Regulation 1272/2008	>=0.0001 -
EC No. :	233-139-2	Repr.Tox. 1A, 1B H360	<=0.001%
Index-No :	005-007-00-2		

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Component		Classification	Concentration
Calcium chloride, anhydrous			
CAS No. :	10043-52-4	As Per EC Regulation 1272/2008	>=0.001 -
EC No. :	233-140-8	Eye Irrit. 2A H319	<=0.01%

Co	mponent	Classification	Concentration
Copper sulphate			
CAS No. :	7758-98-7	As Per EC Regulation 1272/2008	>=0.0001 -
EC No. :	231-847-6	Acute Tox.oral 4; Skin Irrit. 2; Eye Irrit.	<=0.001%
		2A; Aquatic Chronic 1 H302; H315;	
		H319; H410	
		As Per EC Directive 67/548/EEC or	
		1999/45/EC	
		Xn; Xi; N R22; R36/38; R50/53	

Component		Classification	Concentration
Ferrous sulphate			
CAS No. :	7720-78-7	As Per EC Regulation 1272/2008	>=0.001 -
EC No. :	231-753-5	Acute Tox.oral 4; Skin Irrit. 2; Eye Irrit.	<=0.01%
Index-No :	026-003-00-7	2A H302; H315; H319	
Molecular Formula :	FeSO₄		

Component		Classification	Concentration
Manganese sulphate			
CAS No. :	7785-87-7	As Per EC Regulation 1272/2008	>=0.0001 -
EC No. :	232-089-9	STOT RE 2; Aquatic Chronic 2 H373; H411	<=0.001%

Component		Classification	Concentration
Molybdenum trioxide			
CAS No. :	1313-27-5	As Per EC Regulation 1272/2008	>=0.0001 -
EC No. :	215-204-7	Eye Irrit. 2A; STOT SE 3; Carc. 2 H319; H335; H351	<=0.001%

Component		Classification	Concentration
Zinc sulphate			
CAS No. :	7446-19-7	As Per EC Regulation 1272/2008	>=0.0001 -
EC No. :	231-793-3	Eye Dam. 1; Aquatic Chronic 1 H318; H410	<=0.001%

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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 off with soap and plenty of 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, Sodium oxides, Oxides of phosphorus, Potassium oxides, Sulphur oxides, Iron oxides, Magnesium oxide
- 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 adsorbent material and dispose of as hazardous waste. 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

Cream to yellow coloured homogeneous free

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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
-

flowing powder No data available No data available 5.00 - 6.00 No data available No data available

9.2 Other safety information

No data available

- Stability and Reactivity
 Reactivity

 Reactivity
 No data available

 Chemical stability

 No data available

 Possibility of hazardous reactions

 No data available

 10.3 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

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
 Respiratory or skin sensitisation
 No data available
 Respiratory or skin sensitisation
 No data available
 No data available
 Respiratory or skin sensitisation
 No data available
 No data availa

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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) **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

Copper sulphate

Acute oral toxicity Rat LD50: 482 mg/kg Acute dermal toxicity Rat LD50:>2000 mg/kg Skin irritation Rabbit Result: Non irritant Eve irritation Rabbit Result: Highly irritating Skin sensitization Guinea pig Result: Non sensitizing *Genetic toxicity(in-vitro)* Ames test Result: Negative (As Per OECD Test Guideline 471) *Genetic toxicity(in-vivo)* Mouse Micronucleus assay **Result: Negative** Carcinogenicity Rat Result: Negative Toxicity to Reproduction No data available Teratogenicity No data available

Additional information:

RTECS: GL8800000

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.

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Acute Inhalation Toxicity Rat LC50 : > 4.45 mg/l (As per OECD Test Guideline 403) Additional Information RTECS: OP1050000

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 **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

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)

Component:

Copper sulphate *Toxicity to fish* Oncorhynchus mykiss Flow through test LC50: 200 μg/L;96h *Toxicity to aquatic invertebrates* Daphnia magna(Water flea) Static test LC50: 7 μg/L;48h *Toxicity to aquatic alga and cyanobacteria* Phaeodactylum tricornutum Static test EC10: 2.9 μg/L;72h *Toxicity to terrestrial arthropods* Folsomia fimetaria EC10 :688mg/kg;21d

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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 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

This substance or mixture contains no components considered to be persistent, bioaccumulating nor toxic (PBT) at levels of 0.1% or higher.

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 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				
	ADNR : ADR : IATA_C : IATA_P : IMDG : RID :			
14.2	14.2 UN proper shipping name			
		ngerous goods		
		ngerous goods		
	—	ngerous goods		
	—	ngerous goods		
		ngerous goods		
		ngerous 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 IMD	G : Marine Pollutant No IATA_C : No IATA_P : No RID : No		
14.6	Special precautions for use			
	No data available			
45	De sulete su la ferme etien			
15	Regulatory Information	is a with the meaning and a f Description (FC) No. 1007/2000		
45.4		ies with the requirements of Regulation (EC) No. 1907/2006		
15.1				
	mixture			
15.2	No data available 15.2 Chemical Safety Assessment			
15.2	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		
	H351	Suspected of causing cancer		
	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		
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Carc. 2	Carcinogenicity, Category 2
Eye Dam. 1	Serious eye damage or eye irritation, Category 1
Eye Irrit. 2A	Serious eye damage or eye irritation, Category 2A
Repr.Tox. 1A, 1B	Reproductive toxicity, Category 1A, 1B
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
R22	Harmful if swallowed.
R36/38	Irritating to eyes and skin.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse. Effects
	in the aquatic environment.
Ν	Dangerous for the environment
Xi	Irritant
Xn	Harmful

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.