www.himedialabs.com Safety data sheet(SDS) According to Regulation (EC) No.1907/2006 Revision : 00002

Date of Revision : 22.02.2022

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

1.1	Product Identifiers		
	Product Number	M724	
	Product Name	Asparagine Nitrate Medium	
	REACH Registration Number	This product is a mixture. Reach registrat	ion 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
		ne supplier of the safety data sheet	
1.3	Details of the supplier of th	e safety data sheet	
1.3	Details of the supplier of th Produced by	e safety data sheet HiMedia Laboratories Private Limited	
1.3	••	•	ial Area, Thane(W), - 400 604, India
1.3	Produced by	HiMedia Laboratories Private Limited	ial Area, Thane(W), - 400 604, India Fax No. : +91-22- 61471920
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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

HIMEDIA

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

Сог	mponent	Classification	Concentration
Potassium nitrate	e		
CAS No. :	7757-79-1	As Per EC Regulation 1272/2008	>=1.0 - <=10.0%
EC No. :	231-818-8	Ox. Sol. 3 H272	

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Со	mponent	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	>=0.0001 -
EC No. :	231-729-4	Met. Corr. 1; Acute Tox.oral 4; Skin Irrit.	<=0.001%
		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 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 Nitrogen oxides (NOx), Sodium oxides, Oxides of phosphorus, Potassium oxides, Magnesium oxides, Sulphur oxides

5.3 Precautions for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary

5.4 Further information

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

White to cream coloured, homogeneous free flowing powder. Odour No data available **Odour Threshold** No data available pН Not Applicable 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 No data available Water Solubility No data available Partition coefficient: n-octanol/water No data available Autoignition Temperature No data available Viscosity **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
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- 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**

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 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
 - 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

Potassium nitrate Acute oral toxicity Rat LD50: 3,750 mg/kg (As per IUCLID) Acute Dermal Toxicity Rat LD50 : > 5000 mg/kg (As per OECD Test Guideline 402) Acute inhalation toxicity Rat LC50 : > 0.527 mg/L ; 4 h (As per OECD Test Guideline 403) Additional Information RTECS: TT370000

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 Potassium nitrate** *Toxicity to Fish* Bluegill (Lepomis macrochirus)LC50 :420 mg/kg;96 h. Western mosquitofish (Gambusia affinis) LC 50 :62 mg/kg ; 96h. Poecilia reticulata (guppy)LC50 :191 mg/l; 96 h *Toxicity to daphnia and other aquatic invertebrates* Daphnia magna (Water flea)EC50 : 490 mg/l; 48 h (As per 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

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 13.1	Disposal Considerations Waste treatments methods Product		
13.2	Offer surplus and non- recyclable solutions to a licenced company. Contact a licenced professional waste disposal service to dispose off this material. Contaminated packaging Dispose of as unused product.		
14	Transport Information		
14.1	UN-No		
14.2	ADNR : ADR : IATA_C : IA UN proper shipping name	TA_P : IMDG : RID :	
14.2		ngerous goods	
		ngerous goods	
14.3	Transport hazard class(es)		
	ADINK ADK IATA_C .	- IATA_P:- IMDG:- RID:-	
1.4.4			
14.4	Packaging group ADNR : ADR :	IATA C : IATA P : IMDG :	RID :
14.5	Environmental hazards		
	ADNR : No ADR : No IMDO	G : Marine Pollutant No IATA_C : No IATA_P : No RIE	D : No
14.6	Special precautions for use		
	No data available		
15	Regulatory Information		
	o ,	es with the requirements of Regulation (EC) No. 1907/20	006
15.1	-	ent regulations/legislation specific for the substance or	
	mixture		
45.0	No data available		
15.2	Chemical Safety Assessment No data available		
16	Other information		
	H272	May intensify fire; oxidizer	
	H290	May be corrosive to metals	
		Harmful if swallowed	
	H302	Harmul II swallowed	
	H302	Harmiul II Swallowed	Page 8 of 9

H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye 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

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.