

1 Identification of the substances/ mixture and of the company/ undertaking**1.1 Product Identifiers**

Product Number M1932
Product Name Lysine Assay Medium
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

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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

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
Ammonium chloride			
CAS No. :	12125-02-9	As Per EC Regulation 1272/2008 Acute Tox.oral 4; Eye Irrit. 2A H302; H319	≥1.0 - ≤10.0%
EC No. :	235-186-4		
Index-No :	017-014-00-8		

Component	Classification	Concentration
Ferrous sulphate		
CAS No. : 7720-78-7 EC No. : 231-753-5 Index-No : 026-003-00-7 Molecular Formula : FeSO ₄	As Per EC Regulation 1272/2008 Acute Tox.oral 4; Skin Irrit. 2; Eye Irrit. 2A H302; H315; H319	>=0.01 - <=0.1%

Component	Classification	Concentration
Manganese sulphate		
CAS No. : 10034-96-5 EC No. : 232-089-9 Index-No : 025-003-00-4	As Per EC Regulation 1272/2008 STOT RE 2; Aquatic Chronic 2 H373; H411	>=0.01 - <=0.1%

Component	Classification	Concentration
Nicotinic acid (Niacin)		
CAS No. : 59-67-6 EC No. : 200-441-0	As Per EC Regulation 1272/2008 Eye Irrit. 2A H319	>=0.001 - <=0.01%

Component	Classification	Concentration
p-Amino benzoic acid (PABA)		
CAS No. : 150-13-0 EC No. : 205-753-0	As Per EC Regulation 1272/2008 Skin Irrit. 2; Skin Sens. 1; Eye Irrit. 2A H315; H317; H319	>=0.1 - <=1.0%

Component	Classification	Concentration
Guanine hydrochloride		
CAS No. : 635-39-2 EC No. : 211-235-5	As Per EC Regulation 1272/2008 Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3 H315; H319; H335	>=0.01 - <=0.1%

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

Carbon oxides, Hydrogen chloride gas, Sodium oxides, Oxides of phosphorus, Potassium 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 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 2-8°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 safety 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	Off-white to yellow homogenous free flowing powder
Odour	No data available
Odour Threshold	No data available
pH	6.50 - 6.90
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

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

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

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 Chloride***Acute Oral toxicity*

Rat LD50:1,650 mg/kg

Irritation and corrosion

Skin: rabbit: No skin irritation

Eyes: rabbit: Eye irritation

Sensitisation:

Non sensitizer

Signs and Symptoms of Exposure:

No data available

Potential Health Effects

Inhalation

May be harmful if inhaled. May cause respiratory tract irritation.

Additional Information

RTECS : BP4550000

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.

Acute Inhalation Toxicity

Rat LC50 : > 4.45 mg/l

(As per OECD Test Guideline 403)

Additional Information

RTECS: OP1050000

Niacin (Nicotinic acid)

Acute oral toxicity

Rat LD50: >5000 mg/kg;24h(ECHA)

Acute dermal toxicity

Rat LD50: >2000 mg/kg;24h(ECHA)

Acute inhalation toxicity

Rat LD50: >3.8 mg/L; 4h(ECHA)

Skin irritation

Rabbit: Does not cause irritation to skin(ECHA)

Eye irritation

Rabbit: May cause slight to mild irritation to eyes(ECHA)

Sensitisation

Nonsensitizer(ECHA)

Repeated Exposures

No significant effect seen on rats(ECHA)

Germ cell mutagenicity

Genotoxicity invitro

Chinese hamster Ovary (CHO)

Result: Negative(ECHA)

Genotoxicity invivo

Mammalian Bone Marrow Chromosome Aberration Test

Result: Negative(ECHA)

Mutagenicity (mammal cell test): micronucleus

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

Teratogenicity

Rats, 20 d

Result: Negative(ECHA)

Additional information

RTECS QT0525000

PABA (Para aminobenzoic acid)(4-aminobenzoic acid)

Acute oral toxicity

Rat LD50 : 6gm/kg(RTECS)

Mouse LD50 : 2850mg/kg

Rabbit LD50 : 1830 mg/kg

Dog LD50 : 1000 mg/kg

Acute inhalation toxicity

No data available

Acute dermal toxicity

No data available

Skin irritation

No data available

Eye irritation

No data available

Sensitisation

STOT :May cause respiratory irritation

Genetic toxicity(in-vitro)

Ames Test

Negative (National Toxicological Program)

Germ cell mutagenicity

Mouse

Causes DNA damage

Carcinogenicity

IARC Group 3 (It is not established as carcinogen to humans)

Toxicity to Reproduction

No data available

Teratogenicity

No data available

Additional information:

RTECS: No data available

Guanine hydrochloride

Acute toxicity

Rat Intraperitoneal LD50: 200 mg/kg;24h

Skin irritation

May cause skin irritation

Eye irritation

May cause eye irritation

Inhalation

May cause slight irritation

Sensitisation

No data available

Repeated Exposures

No data available

Germ cell mutagenicity

Genotoxicity invitro

No data available

Genotoxicity invivo

No data available

Mutagenicity (mammal cell test): micronucleus

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

Teratogenicity

No data available

Additional information

RTECS MF8400000

12 Ecological Information

12.1 Toxicity

No data available

Components

Ammonium chloride

Toxicity to fish

Oncorhynchus mykiss (rainbow trout) LC50: 42.91 mg/l; 96 h
(AS per ECHA)

Cyprinus carpio (Carp) LC50: 209.00 mg/l; 96 h

Lepomis macrochirus (Bluegill sunfish) EC10: 4.28 mg/l; 30 d
(As per ECHA)

Toxicity to daphnia and other aquatic invertebrates

Daphnia magna (Water flea) EC50: > 100 mg/l; 48 h
(As per ECHA)

Daphnia magna (Water flea) LC50: 161 mg/l - 48 h

Toxicity to algae

Chlorella vulgaris (Fresh water algae) EC50: 1,300 mg/l; 5 d
(As per ECHA)

Toxicity to bacteria

EC50 activated sludge: 1,310 mg/l; 0.5 h
(OECD Test Guideline 209)

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

Desmodemus subspicatus (algae) EC50 61 mg/l; 72 h

(As per OECD Test Guideline 201)

Components

Niacin(Nicotinic acid)

Toxicity to fish

Brown trout (Salmo Trutta Fario)LC50: 520 mg/l; 96 h(ECHA)

Toxicity to daphnia and other aquatic invertebrates

Daphnia magna EC50: 77 mg /L; 48 h(ECHA)

Toxicity to algae

Desmodesmus subspicatus Scenedesmus subspicatus)

EC50: 89.93 mg/L 72 h(ECHA)

Toxicity to microorganisms

Pseudomonas putida EC50: 120 mg /L; 16 h(ECHA)

Pseudomonas putida EC10: 88 mg /L; 16 h(ECHA)

Components

PABA (Para aminobenzoic acid) (4-aminobenzoic acid)

Toxicity to daphnia and other aquatic invertebrates

Daphnia magna (Water flea) EC50 : 546 mg/l; 24 h.

Toxicity to Bacteria

Microtox test

Phytobacterium phosphoreum EC50: 27.4 mg/l; 30 mins.

Components

Guanine hydrochloride

No ecotoxicological information available

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 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

This safety data sheet 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
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H335	May cause respiratory irritation
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 Irrit. 2A	Serious eye damage or eye irritation, Category 2A
Skin Irrit. 2	Skin corrosion or irritation, Category 2

Skin Sens. 1
STOT RE 2
STOT SE 3

Sensitisation, Skin, Category 1
Specific target organ toxicity, repeated exposure, Category 2
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.