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

1.1 Product Identifiers

Product Number	M362
Product Name	ISP Medium No. 7 (Tyrosine Agar)
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		
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

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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

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3 Composition/Information On Ingredients

3.2 Mixture

Component		Classification	Concentration
Ferrous sulphate, heptahydrate			
CAS No. : EC No. :	7782-63-0 231-753-5	**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
Copper chloride, 2H2O		
CAS No. : 10125-13-0 EC No. : 231-210-2	**As Per EC Regulation 1272/2008** Met. Corr. 1; Skin Irrit. 2; Eye Dam. 1; Aquatic Chronic 1 H290; H315; H318; H410	>=0.01 - <=0.1%

Component	Classification	Concentration
Cobalt chloride, 6H2O		
CAS No. : 7791-13-1 EC No. : 231-589-4 Index-No : 027-004-00-5	**As Per EC Regulation 1272/2008** Acute Tox.oral 4; Skin Sens. 1; Resp. Sens. 1; Muta. 2; Carc. 1B; Repr. 1B; Aquatic Chronic 1 H302; H317; H334; H341; H350i; H360F; H410	>=0.01 - <=0.1%

Component	Classification	Concentration
Zinc chloride		
CAS No. : 7646-85-7 EC No. : 231-592-0 Index-No : 030-003-00-2	**As Per EC Regulation 1272/2008** Acute Tox.oral 4; Skin Corr. 1B; Aquatic Chronic 1 H302; H314; H410	>=0.01 - <=0.1%

Component	Classification	Concentration
Boric acid		
CAS No. : 10043-35-3 EC No. : 233-139-2 Index-No : 005-007-00-2	**As Per EC Regulation 1272/2008** Repr.Tox. 1A, 1B H360	>=0.01 - <=0.1%

Component	Classification	Concentration
Manganese chloride tetrahydrate		
CAS No. : 13446-34-9 EC No. : 231-869-6	**As Per EC Regulation 1272/2008** Acute Tox.oral 4 H302	>=0.01 - <=0.1%

Refer Section 16 for complete statement of H codes & 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

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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

5.3 Precautions for fire-fighters
Wear self contained breathing apparatus for fire fighting if necessary

5.4 Further information
No data available

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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.

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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 flowing powder
Odour	No data available
Odour Threshold	No data available
pH	7.20 - 7.40
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

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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. Other Decomposition products not known.

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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

Ferrrous Sulphate,Heptahydrate
Acute Oral Toxicity
Rat LC50: 319 mg/kg
Additional Information
RTECS:NO8510000
Copper chloride dihydrate
Acute Oral Toxicity
Rat LD50:336 mg/kg
Acute Dermal Toxicity
Rat LD50: >2,000 mg/kg
Rat LD50:1,224 mg/kg
Skin corrosion/irritation
Skin-Rabbit
Result: Irritating to skin.
Serious eye damage/eye irritation
Eyes-Rabbit
Result: Risk of serious damage to eyes.
Additional Information
RTECS: GL7030000
Cobalt chloride hexahydrate
Acute Oral Toxicity
Rat LD50 : 766 mg/kg;
Acute Dermal Toxicity
Rat LD50 : >2 gm/kg
Additional Information
RTECS: GG0200000

Zinc chloride
Acute Oral Toxicity
Rat LD50 : 350 mg/kg.
Mouse LD50: 329 mg/kg
Additional Information
RTECS: ZH1400000

Manganese Chloride, Tetrahydrate
Acute Oral Toxicity
Rat LD50 : 1484 mg/kg
Additional Information
RTECS: OO9650000

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)

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12 Ecological Information

12.1 Toxicity

No data available
Components:
Ferrous Sulphate, heptahydrate
Toxicity to fish
Poecilia reticulata(guppy) LC50: 925 mg/l; 96 h (As Per IUCLID)
Toxicity to daphnia and other aquatic invertebrates
Daphnia magna (Water flea) EC50: 152 mg/l; 48 h (anhydrous substance) (As Per IUCLID)
Toxicity to bacteria
Pseudomonas fluorescens EC50: 100 mg/l; 24 h (anhydrous substance) (As Per IUCLID)

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
Copper chloride dihydrate
Toxicity to Fish
Cyprinus carpio (Carp)LC50 : 0.12 -0.23 mg/l; 96 h
Lepomis macrochirus LC50:0.9 mg/l;96h
Ictalurus punctatus NOEC :0.013 mg/l;60 d

Components
Cobalt chloride hexahydrate
Toxicity to Fish
Pimephales promelas LC50 : 22 - 48 ppm ;96 h
Cyprinus carpio (Carp) LC50 : 0.33 mg/l;96. h
Toxicity to Daphnia and other aquatic invertebrates
Daphnia magna EC50:1.1 - 3.2 mg/l; 48 h
Toxicity to Algae
Chlorella vulgaris (Fresh water algae) EC50:0.5 mg/l ;96 h

Components
Zinc chloride
Toxicity to Fish
Cyprinus carpio (Carp) LC50 : 0,4 - 2,2 mg/l ; 96 h
Danio rerio (zebra fish) LC50: 38 mg/l; 96 h
(As per IUCLID)
Toxicity to Daphnia and other aquatic invertebrates
Daphnia magna (Water flea) EC50 : 0,2 mg/l ; 48 h
Toxicity to Algae
Pseudokirchneriella subcapitata Growth inhibition LOEC :2,5 mg/l ; 96 h
As per OECD Test Guideline 201)
Toxicity to Bacteria
EC50 Activated sludge : 45 mg/l
(As per IUCLID)

Components
Manganese Chloride, Tetrahydrate
Toxicity to fish
Carassius auratus(goldfish)LC50 : 18.8 mg/l;7 d
Toxicity to daphnia and other aquatic invertebrates
Daphnia magna(Water flea) EC50 : >11 mg/l ; 48 h

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.

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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

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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

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16 Other information

H290	May be corrosive to metals
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H334	May cause allergy or asthma symptoms or breathing difficulties if

	inhaled
H341	Suspected of causing genetic defects
H350i	May cause cancer by inhalation
H360	May damage fertility or the unborn child
H360F	May damage fertility
H410	Very 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
Carc. 1B	Carcinogenicity, Category 1B
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
Muta. 2	Germ cell mutagenicity, Category 2
Repr. 1B	Reproductive toxicity, Category 1B
Repr.Tox. 1A, 1B	Reproductive toxicity, Category 1A, 1B
Resp. Sens. 1	Sensitisation, respiratory, Category 1
Skin Corr. 1B	Skin corrosion or irritation, Category 1B
Skin Irrit. 2	Skin corrosion or irritation, Category 2
Skin Sens. 1	Sensitisation, Skin, Category 1

Further Information

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.