

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

Product Number MV486  
Product Name Hi-Sensitivity Test HiVeg™ Broth  
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](mailto: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
Cupric sulphate		
CAS No. : 7758-98-7 EC No. : 231-847-6	<b>As Per EC Regulation 1272/2008</b> Acute Tox.oral 4; Skin Irrit. 2; Eye Irrit. 2A H302; H315; H319	>=0.001 - <=0.01%

Component	Classification	Concentration
Zinc sulphate		
CAS No. : 7446-19-7 EC No. : 231-793-3	<b>As Per EC Regulation 1272/2008</b> Eye Dam. 1; Aquatic Chronic 1 H318; H410	>=0.001 - <=0.01%

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

Component	Classification	Concentration
Menadione		
CAS No. : 58-27-5 EC No. : 200-372-6	<b>As Per EC Regulation 1272/2008</b> Acute Tox.oral 4; Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3 H302; H315; H319; H335	>=0.001 - <=0.01%

Component	Classification	Concentration
L-Cysteine hydrochloride		
CAS No. : 52-89-1 EC No. : 200-157-7	<b>As Per EC Regulation 1272/2008</b> Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3 H315; H319; H335	>=0.01 - <=0.1%

Component	Classification	Concentration
Nicotinamide		
CAS No. : 98-92-0 EC No. : 202-713-4	<b>As Per EC Regulation 1272/2008</b> Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3 H315; H319; H335	>=0.01 - <=0.1%

Component	Classification	Concentration
Cobaltous sulphate		
CAS No. : 10124-43-3	<b>As Per EC Regulation 1272/2008</b> Met. Corr. 1; Skin Sens. 1; Eye Irrit. 2A; Resp. Sens. 1; Muta. 2; Carc. 1A; Repr. 1A; Aquatic Chronic 1 H290; H317; H319; H334; H341; H350i; H360F; H410	>=0.001 - <=0.01%

Component	Classification	Concentration
Manganous chloride		
CAS No. : 7773-01-5	<b>As Per EC Regulation 1272/2008</b> Acute Tox.oral 4; Eye Dam. 1; STOT RE	>=0.001 - <=0.01%

	2; Aquatic Chronic 2 H302; H318; H373; H411	
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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

### **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.

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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 2-8°C

### 7.3 Specific end uses

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

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## 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.

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## 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance	Cream to yellow coloured with greenish tinge homogeneous free flowing powder
Odour	No data available
Odour Threshold	No data available
pH	7.20 - 7.60
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

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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**

Zinc Sulphate, Heptahydrate

Acute Oral Toxicity

Rat LD50: 1,260 mg/kg (As Per RTECS)

Additional information

RTECS: ZH5300000

**Ferrous sulphate**

Acute Oral Toxicity

Mouse LD50: 1.520 mg/kg

**Additional Information**

RTECS: NO8510000

**L-Cysteine Hydrochloride**

Acute toxicity

Mouse Intravenous LD50: 771 mg/kg

Mouse Intraperitoneal LD50: 1,250 mg/kg

Germ cell mutagenicity

Mouse(male) Result: Negative

**Additional Information:**

RTECS: HA2275000

## **12 Ecological Information**

### **12.1 Toxicity**

No data available

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)

#### **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**

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

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## **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
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
H335	May cause respiratory irritation
H341	Suspected of causing genetic defects
H350i	May cause cancer by inhalation
H360F	May damage fertility
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
Carc. 1A	Carcinogenicity, Category 1A
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. 1A	Reproductive toxicity, Category 1A
Resp. Sens. 1	Sensitisation, respiratory, Category 1
Skin Irrit. 2	Skin corrosion or irritation, Category 2
Skin Sens. 1	Sensitisation, Skin, Category 1
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.