



According to Regulation (EC) No.1907/2006

Revision: 00003

Date of Revision: 19.01.2023

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

1.1 Product Identifiers

Product Number MV379

Product Name Marine Oxidation Fermentation HiVeg™ Medium (MOF HiVeg™

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

Produced by HiMedia Laboratories Private Limited

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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	>=0.01 - <=0.1%
EC No.:	233-139-2	Repr.Tox. 1A, 1B H360	
Index-No :	005-007-00-2		

Component		Classification	Concentration
Ammonium nitr	ate		
CAS No. :	6484-52-2	As Per EC Regulation 1272/2008	>=0.001 -
EC No.:	229-347-8	Ox. Sol. 3; Skin Irrit. 2; Eye Irrit. 2A;	<=0.01%
		STOT SE 3 H272; H315; H319; H335	

Component		Classification	Concentration		
Calcium chloride,anhydrous					
CAS No.:	10043-52-4	As Per EC Regulation 1272/2008	>=0.01 - <=0.1%		
EC No.:	233-140-8	Eye Irrit. 2A H319			

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

Magnesium oxides, Carbon oxides, Sodium oxides, Hydrogen chloride gas, Sulphur oxides, Calcium oxide, Potassium oxides, Nitrogen oxides (NOx)

## **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 Pink coloured homogeneous free flowing

powder

Odour No data available
Odour Threshold No data available

pH 7.80 - 8.20

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 No data available Relative density No data available Water Solubility Partition coefficient: n-octanol/water No data available **Autoignition Temperature** No data available No data available Viscosity

Explosive properties

Oxidizing properties

Vapour density

Thermal decomposition

No data available

No data available

No data available

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 nitrate**

Acute oral toxicity

LD50 rat: 2,462 mg/kg

Symptoms: Nausea, Vomiting, Diarrhoea, Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract.

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(OECD Test Guideline 401)

Acute inhalation toxicity

LC50 rat: > 88.8 mg/l; 4 h (IUCLID)

Symptoms: Inhalation may lead to the formation of oedemas in the respiratory tract.

(OECD Test Guideline 401)

### **Additional Information:**

RTECS:BR9050000

Further information:

After absorption of large quantities:

Symptoms: Methaemoglobinaemia with headache, cardiac arrhythmia, drop in blood pressure, dyspnoea, and spasms, key symptom: cyanosis (blue colouration of the blood). The following applies to ammonium salts in general: after swallowing: local irritation symptoms, nausea, vomiting and diarrhoea. Systemic effect: after the uptake of very large quantities: drop in blood pressure, collapse, CNS disorders, spasms, narcotic conditions, respiratory paralysis and haemolysis.

#### **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

## 12 Ecological Information

### 12.1 Toxicity

No data available for this mixture

### **Components:**

### **Ammonium Nitrate**

Toxicity to fish

LC50 Cyprinus carpio (Carp): 74 mg/l; 48 h (IUCLID) Toxicity to daphnia and other aquatic invertebrates EC50 Daphnia magna (Water flea): 555 mg/l(IUCLID)

Toxicity to algae

IC50 Scenedesmus quadricauda (Green algae): 83 mg/l(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)

### 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

## 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

#### Special precautions for use 14.6

No data available

#### **Regulatory Information** 15

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

#### Other information 16

H272 May intensify fire; oxidizer H315 Causes skin irritation H319 Causes serious eye irritation H335 May cause respiratory irritation H360 May damage fertility or the unborn child Eye Irrit. 2A Serious eye damage or eye irritation, Category 2A Ox. Sol. 3 Oxidising solids, Category 3

Repr.Tox. 1A, 1B Reproductive toxicity, Category 1A, 1B

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Skin Irrit. 2 Skin corrosion or irritation, 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.