

TM 782- MARINE OXIDATION FERMENTATION MEDIUM (MOF MEDIUM)

SECTION 1: PRODUCT IDENTIFICATION

PRODUCT NAME: MARINE OXIDATION FERMENTATION MEDIUM (MOF MEDIUM)

PRODOUCT CODE: TM 782

REACH REGISTRATION NUMBER: This product is a mixture. Reach registration number is not available for this mixture

RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST:

Relevant identified uses: Laboratory Chemicals, Analytical Purpose, Biochemical Analysis For InVitro Diagnostic Use

SECTION 2: HAZARDS IDENTIFICATION

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

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.

Other hazards None

SECTION 3: COMPOSITION /INFORMATION ON INGREDIENTS

Mixture

| Component | Classification | Concentration |
|--|---|-------------------|
| Tris (hydroxymethyl) aminomethane | | |
| CAS No. : 7782-82-3 EC No. : 231-966-3 Index-No : 034-002-00-8 | As Per EC Regulation 1272/2008 Acute Tox.oral. 3; Acute Tox. inhal. 3; STOT RE 2; Aquatic Chronic 1 H301; H331; H373; H410 | >=90.0 - <=100% |
| Boric acid | | |
| CAS No. : 633-03-4 EC No. : 211-190-1 | As Per EC Regulation 1272/2008 Acute Tox.oral 4; Eye Irrit. 2A H302; H319 | >=0.01 - <=0.1% |
| Calcium chloride, anhydrous | | |
| CAS No. : 10043-52-4 EC No. : 233-140-8 | As Per EC Regulation 1272/2008 Eye Irrit. 2A H319 | >=1.0 - <=10.0% |
| Ammonium nitrate | | |
| CAS No. : 6484-52-2 EC No. : 229-347-8 | As Per EC Regulation 1272/2008 Ox. Sol. 3; Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3 H272; H315; H319; H335 | >=0.001 - <=0.01% |
| Strontium chloride | | |
| CAS No. : 10476-85-4 EC No. : 233-971-6 | As Per EC Regulation 1272/2008 Skin Irrit. 2; Eye Dam. 1; STOT SE 3 H315; H318; H335 | >=0.01 - <=0.1% |
| Potassium bromide | | |
| CAS No. : 2139-62-0 EC No. : 231-830-3 | As Per EC Regulation 1272/2008 Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3 H315; H319; H335 | >=0.1 - <=1.0% |
| Sodium fluoride | | |
| CAS No. : 7681-49-4 EC No. : 231-667-8 | As Per EC Regulation 1272/2008 Acute Tox.oral. 3; Skin Irrit. 2; Eye | >=0.001 - <=0.01% |



| | | |
|--|---|-----------------|
| Index-No : 009-004-00-7 | Irrit. 2A H301; H315; H319 | |
| Phenol red | | |
| CAS No. : 143-74-8 EC No. : 205-609-7 | As Per EC Regulation 1272/2008 Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3 H315; H319; H335 | >=0.01 - <=0.1% |

SECTION 4: FIRST AID MEASURES

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.

Most important symptoms and effects, both acute and delayed

No data available.

Indication of immediate medical attention and special treatment needed

No data available

SECTION 5: FIRE FIGHTING MEASURES

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media

No data available

Special hazards arising from the substance or mixture

Carbon oxides, Hydrogen chloride gas, Sodium oxides

Precautions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary

Further information

No data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

Evacuate personnel to safe areas.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

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.

Reference to other sections

For disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Normal measures for preventive fire protection.



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 10-25°C

Specific end uses

Apart from the uses mentioned in section 1 no other specific uses are stipulated.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Components with workplace control parameters

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 89/686/EEC and the standard EN 374 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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

- | | | |
|---|---|--|
| a) Appearance Form | : | Light yellow to pinkish purple homogeneous free flowing powder |
| b) Odour | : | No data available |
| c) Odour Threshold | : | No data available |
| d) pH | : | 7.80 - 8.20 |
| e) Melting point/freezing point | : | No data available |
| f) Initial boiling point and boiling range | : | No data available |
| g) Flash point | : | No data available |
| h) Evaporation rate | : | No data available |
| i) Flammability (solid, gas) | : | No data available |
| j) Upper/lower flammability or explosive limits | : | No data available |
| k) Vapour pressure | : | No data available |
| l) Vapour density | : | No data available |
| m) Relative density | : | No data available |

| | | |
|---|---|-------------------|
| n) Water solubility | : | No data available |
| o) Partition coefficient: n-octanol/water | : | No data available |
| p) Auto-ignition temperature | : | No data available |
| q) Decomposition temperature | : | No data available |
| r) Viscosity | : | No data available |
| s) Explosive properties | : | No data available |
| t) Oxidizing properties | : | No data available |

Other safety information No data available

SECTION 10: STABILITY AND REACTIVITY DATA

Reactivity: No data available

Chemical stability: No data available.

Possibility of hazardous reactions: No data available

Conditions to avoid: No data available

Incompatible materials: No data available

Hazardous decomposition products: Refer Section 5

SECTION 11: TOXICOLOGICAL INFORMATION

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 sensitization:No data available

Germ cell mutagenicity:No data available

Carcinogenicity:

IARC:No component of this product is 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: Not available

Components Sodium Deoxycholate

Acute Oral Toxicity

Rat LD50: 1,370 mg/kg (As Per RTECS)

Rat Intraperitoneal LD50: 123 mg/kg

Rat Subcutaneous LD50: 2,430 mg/kg

Additional Information:

RTECS FZ2250000

Ferric ammonium citrate

Acute Oral Toxicity

RatLD50: >2000 mg/kg

Acute Potential Health Effects

Skin

Contact may cause irritation or rash, particularly with moist skin.

Eyes

May cause eye irritation with redness, tearing, and abrasion.

Inhalation

Inhalation of high concentrations of dust may cause nasal, throat or lung irritation. Symptoms may include coughing and wheezing.

Ingestion

Ingestion can produce gastrointestinal tract irritation with hyper motility, diarrhea. Chronic Potential Health Effects

Eyes

Prolonged eye contact may cause a brownish discoloration of the eyes.

Skin

Prolonged skin contact may cause skin irritation.

Additional information:

RTECS: GE7540000

Phenol Red

Acute Oral Toxicity

Rat LD50: >600 mg/Kg

Rat Intravenous LD50 :752 mg/Kg

Mouse Intravenous LD50: 1368 mg/Kg

Inhalation

May cause respiratory irritation.

Additional Information:

RTECS: SJ7490000

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

No data available

Components

Sodium deoxycholate

Toxicity to Fish

Oryziaslatipes LC50: 115mg/l; 48h

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil No data available

PBT and vPvB assessment

This substance or mixture contains no components considered to be persistent, bioaccumulating nortoxic (PBT) at levels of 0.1% or higher.

Other adverse effects

No data available.

SECTION 13: DISPOSAL CONSIDERATION

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.

Contaminated packaging

Dispose of as unused product

SECTION 14: TRANSPORT INFORMATION

UN-No

ADNR: ADR: IATA_C: IATA_P: IMDG: RID:

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

Transport hazard class (es)

ADNR: - ADR: - IATA_C: - IATA_P: - IMDG : -RID : -

Packaging group ADNR: ADR : IATA_C : IATA_P : IMDG : RID :

Environmental hazards ADNR: No ADR : No IMDG : Marine Pollutant No IATA_C : No IATA_P : No RID : No

Special precautions for use: No data available

SECTION 15: REGULATORY INFORMATION

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Safety health and environment regulations/legislation specific for the substance or mixture

No data available

Chemical Safety Assessment

No data available

SECTION 16: OTHER INFORMATION

Text of H codes and classification mentioned in section 3

H302 Harmful if swallowed

H315 Causes skin irritation

H319 Causes serious eye irritation

H335 May cause respiratory irritation

Acute Tox.oral 4 Acute toxicity, oral, Category 4

Eye Irrit. 2A Serious eye damage or eye irritation, Category 2A

Skin Irrit. 2 Skin corrosion or irritation, Category 2

STOT SE 3 Specific target organ toxicity, single exposure, Respiratory tract irritation, Category 3

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