

**EMM GLUTAMATE BROTH****PMD18****SECTION 1 Identification of the Substance/Mixture and of the Company/Undertaking****1.1. Product identifier**

Identification of the product : Blended Material  
Product code : PMD18  
Trade name : EMM Glutamate Broth

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

Use : For research purposes only

**1.3. Details of the supplier of the safety data sheet**

Company identification : **Formedium Ltd.**  
Unit 1B Hunstanton Commercial Park Norfolk PE365JQ  
Tel: +44(0)1485 609069  
Fax: +44(0)1485 600510  
E-mail:info@formedium.com

**1.4. Emergency telephone number**

Emergency phone nr : Tel: +44(0)1485 609069 (local time : 9.00 to 17.00)  
National Poison Information Centre :Europe UK : +44 0845 4647 (this service is only available to health professionals)  
See [www.toxbase.org](http://www.toxbase.org) for a local poison centre

**SECTION 2 Hazards Identification****2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

Not regulated

**2.2. Label elements****Labelling according to Regulation (EC) 1272/2008**

Hazard pictograms code : None  
Precautionary statements : None

**2.3. Other hazards**

None under normal conditions.

**SECTION 3 Composition/Information on Ingredients****Components**

Substance name

|                              |                            |
|------------------------------|----------------------------|
| Potassium hydrogen Phthalate | Magnesium Chloride .5 H2O  |
| Di sodium hydrogen phosphate | Magnesium Sulphate 1.6 H2O |
| Glutamate                    | Calcium Chloride           |
| Glucose                      | Di Sodium Sulphate         |
| EMM Broth premix             | Sodium Chloride            |

**EMM GLUTAMATE BROTH**

**PMD18**

**SECTION 4 First Aid Measures**

**4.1. Description of first aid measures**

- General information : Seek medical attention if ill effect develops.
- Inhalation : Remove victim to fresh air.
- Skin contact : Flush with plenty of water.
- Eye contact : Rinse with copious amounts of water.
- Ingestion : Induce vomiting, give plenty of water to drink.

**4.2. Most important symptoms and effects, both acute and delayed**

Symptoms and effects, both acute and delayed : No data available.

**4.3. Indication of any immediate medical attention and special treatment needed**

Medical attention and special treatment needed : No data available.

**SECTION 5 Fire-fighting Measures**

**5.1. Extinguishing media**

- Suitable extinguishing media : Dry powder.  
Alcohol resistant foam.  
Water spray.  
Carbon dioxide (CO<sub>2</sub>).

**5.2. Special hazards arising from the substance or mixture**

When heated to decomposition, emits toxic fumes.  
CO<sub>x</sub>

**5.3. Advice for fire-fighters**

- Protection against fire : Wear proper protective & breathing equipment.
- Special procedures : None/ Avoid (reject) fire-fighting water to enter environment.

**SECTION 6 Accidental Release Measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

Technical measures : Use good housekeeping practices to avoid rendering dust airborne.

**6.2. Environmental precautions**

Environmental precautions : Prevent entry to sewers and public waters.

**6.3. Methods and material for containment and cleaning up**

Clean up methods : Sweep up dry powder. Keep in suitable, closed container for disposal. Dispose of properly.

**6.4. Reference to other sections**

Reference to other sections : No Reference

**SECTION 7 Handling and Storage**

**7.1. Precautions for safe handling**

General : Store in dry, well-ventilated area.

**7.2. Conditions for safe storage, including any incompatibilities**

Storage : Store in dry, cool area.  
See bottle label for optimum storage conditions

**7.3. Specific end use(s)**

Specific end use(s) : For research purposes only.

**EMM GLUTAMATE BROTH****PMD18****SECTION 8 Exposure Controls/Personal Protection****8.1. Control parameters**

No data available

**8.2. Exposure controls**

- Eye protection : Safety glasses.
- Body protection : Wear suitable protective clothing.
- Hand protection : Wear gloves. Dispose of gloves correctly. Wash and dry hands.
- Respiratory protection : P1 Where excessive dust may result, wear approved mask.

**SECTION 9 Physical and Chemical Properties****9.1. Information on basic physical and chemical properties****•Appearance**

Physical state at 20 °C : Powder

Colour : Light yellowish

**•Odour**

Odour : Slight Odour

**•Odour threshold**

Odour threshold : Not established.

**•pH**

pH value : 6 – 9

**•Melting point / Freezing point**

Melting point [°C] : No data available.

**•Initial boiling point - boiling range**

Boiling point [°C] : No data available.

**•Flash point**

Flash point [°C] : No data available.

**•Evaporation rate**

Evaporation rate (ether=1) : No data available.

**•Flammability**

Flammability range [vol% in air] : No data available.

**•Explosion limits (lower - upper)**

Explosion limits : No data available.

**•Vapour pressure**

Vapour pressure : No data available.

**•Vapour density**

Relative vapour density (air = 1) : No data available.

**•Relative density**

Relative density : Not established.

**•Solubility**

Solubility in water : Soluble

**•Partition coefficient : n-octanol / water**

Log P octanol / water at 20°C : Not established.

**•Auto-ignition temperature**

Auto-ignition temperature [°C] : No data available.

**•Thermal decomposition**

Thermal decomposition [°C] : No data available.

**•Viscosity**

Viscosity : No data available.

**•Explosive Properties**

Explosive Properties : Not established.

**EMM GLUTAMATE BROTH****PMD18****SECTION 9 Physical and Chemical Properties (continued)****-Oxidising properties**

Oxidising properties : Not established.

**9.2. Other information**

Other data : No data available.

**SECTION 10 Stability and Reactivity****10.1. Reactivity**

Reactivity : No data available.

**10.2. Chemical stability**

Stability : Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

Hazardous properties : None

**10.4. Conditions to avoid**

Moisture

**10.5. Incompatible materials**

Materials to avoid : Strong oxidizing agents.

**10.6. Hazardous decomposition products**Hazardous decomposition products : Carbon dioxide (CO<sub>2</sub>). Carbon monoxide**SECTION 11 Toxicological Information****11.1. Information on toxicological effects**

Toxicity information : This product is not hazardous.

Rat oral LD50 [mg/kg] : No data available.

**SECTION 12 Ecological Information****12.1. Toxicity**

No data available.

**12.2. Persistence – degradability**

No data available.

**12.3. Bioaccumulative potential**

No data available.

**12.4. Mobility in soil**

No data available.

**12.5. Results of PBT and vPvB assessment**

No data available.

**12.6. Other adverse effects**

No data available.

**SECTION 13 Disposal Considerations****13.1 Waste treatment methods**General : Avoid release to the environment.  
: Dispose in a safe manner in accordance with local/national regulations.

**EMM GLUTAMATE BROTH****PMD18****SECTION 14 Transport Information****14.1. UN Number**

Not applicable.

**14.2. Proper shipping name**

Not classified as dangerous in the meaning of transport regulations

**14.3. Transport Hazard Classification**

Not applicable.

**14.4. Packing group**

Not applicable.

**14.5. Environmental hazards**

Not applicable.

**14.6. Special precautions for user**

Not applicable.

**14.7. Bulk transport - annex II Marpol 73/78 – IBC**

Not applicable.

**SECTION 15 Regulatory Information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

This safety data sheet complies with the requirements of Regulation (EU) No 2015/830

**15.2. Chemical Safety Assessment**

For this product a chemical safety assessment was not carried out.

**SECTION 16 Other Information****Further information**

: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Formedium Ltd. shall not be held liable for any damage resulting from handling or from contact with the above product.

**Revision**

: Complete SDS revision.

End of document