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## SECTION 1 Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

**Identification of the product** : Raw Material  
**Product code** : MOPS  
**Trade name** : MOPS  
**CAS number** : 001132-61-2  
**Structural Formula** : C7H15NO4S  
**Molecular Weight** : 209.26  
**Synonym(s)** : 4-Morpholino propanesulfonic acid

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

**1.2.1 Relevant identified uses** : For research purposes only

**1.2.2 Uses advised against** : No additional information available

### 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 telephone number** : 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) No. 1272/2008

**Hazards pictograms code** : None  
**Precautionary statements** : None

### 2.3 Other hazards

None under normal conditions.

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## SECTION 3 Composition/information on ingredients

**Substance** : This product is not classified as hazardous.

Substance name:	Contents	CAS No:	EC No:	Annex No:	Ref REACH	Classification
MOPS	>99%	001132-61-2	214-478-5	--	--	Not classified

## 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 water.
- Ingestion** : Seek medical attention if ill effect develops, Rinse mouth. Give 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  
Water spray  
Alcohol-resistant foam

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

When heated to decomposition, emits toxic fumes. NOx  
COx

### 5.3. Advice for firefighters

- Protection against fire** : Wear proper protective equipment.
- Special procedures** : Avoid (reject) fire fighting water to enter environment.

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**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** : Dispose in a safe manner in accordance with local / national regulations.  
Sweep up dry powder and dispose properly.

**6.4. Reference to other sections**

For disposal see section 13.

**SECTION 7 Handling and storage**

**7.1. Precautions for safe handling**

**General** : Store in a dry, well-ventilated area.

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

**Storage conditions** : Store in a dry, cool area.  
Store at room temperature.

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

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

**SECTION 8 Exposure controls/personal protection**

**8.1. Control parameters**

No additional information available.

**8.2. Exposure controls**


- **Eye protection** : Safety glasses.
- **Skin protection** : Wear suitable protective clothing.
- **Hand protection** : In case of repeated or prolonged contact wear gloves.
- **Respiratory protection** : Where excessive dust may result, wear approved mask. Type P1 (EN143)

**SECTION 9 Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

**Appearance**

**Physical state at 20°C** : Powder  
**Colour** : White  
**Odour** : Mild


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<b>SECTION 9 Physical and chemical properties (continued)</b>
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<b>Odour threshold</b>	: Not established.
<b>pH</b>	: 6.5 – 7.9
<b>Melting point (°C)</b>	: 277
<b>Boiling point (°C)</b>	: No data available.
<b>Flash point (°C)</b>	: 110
<b>Evaporation rate (ether=1)</b>	: No data available.
<b>Flammability range (vol % in air)</b>	: No data available.
<b>Explosion limits</b>	: No data available.
<b>Vapour pressure</b>	: No data available.
<b>Relative vapour density (air = 1)</b>	: No data available.
<b>Relative Density</b>	: No data available.
<b>Solubility in water</b>	: approx 100 g/L
<b>Log P octanol / water at 20°C</b>	: No data available.
<b>Auto ignition temperature (°C)</b>	: No data available.
<b>Thermal decomposition (°C)</b>	: No data available.
<b>Explosive properties</b>	: No data available.
<b>Oxidising properties</b>	: No data available.

### **9.2. Other information**

**No additional information available**

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

Stable under normal conditions, handling and use.

**10.2. Chemical stability**

Stable under recommended storage conditions.

**10.3. Possibility of hazardous reactions**

**Hazardous reactions** : No data available.

**10.4. Conditions to avoid**

No data available.

**10.5. Incompatible materials**

**Materials to avoid** : Strong oxidizers.

**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

**Rat oral LD50 [mg/kg]** : > 2000

**SECTION 12 Ecological information**
**12.1. Toxicity**

**24 Hour – LC50 – Daphnia magna [mg/kg]** : > 100

**12.2. Persistence and degradability**

No additional information available.

**12.3. Bioaccumulative potential**

No additional information available.

**12.4. Mobility in soil**

No additional information available.

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

No additional information available.

**12.6. Other adverse effects**

No data available.

**Ecological effects information** : No data available.

**Formedium Ltd.**

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