

## MATERIAL SAFETY DATA SHEET

In accordance with Regulation (EC) No 1907/2006

January 2019

### 1. Identification:

**Product Name:** Plaster of Paris Medical Bandage  
**Product Code:** 78800, 78802, 78804, 78806  
**Supplier:** Major Brushes Ltd  
C2-C3 Capital Point, Capital Business Park  
Parkway, Cardiff CF3 2PY  
Tel: 029 2077 8450 Fax: 029 2077 0835 [artproducts@majorbrushes.co.uk](mailto:artproducts@majorbrushes.co.uk)

### 2. Composition:

Bleached cotton gauze impregnated with Calcium Sulphate Hemihydrates ( $\text{CaSO}_4 + \frac{1}{2}\text{H}_2\text{O}$ ) and bonded with non-toxic adhesive.

Chemical Name	CAS No.	Formula	Composition
Calcium Sulphate	7778-18-9	$\text{CaSO}_4$	80%
Cotton Gauze	N/A	N/A	10%
Adhesive	N/A	N/A	9%
Methanol	67-56-1	$\text{CH}_4\text{O}$	1%

In accordance with Regulation (EC) No 1272/2008 this product is not classified hazardous

### 3. Hazards Identification:

#### Potential Health Effects

**Eyes:** Dust may be released when cutting and removing the set bandage, which may enter the eye and cause mechanical irritation.

**Skin:** No special hazard risk under normal use. If warm water ( $>25^\circ\text{C}$ ) is used to wet the bandage, the exothermic setting reaction of Plaster of Paris may potentially cause a burn.

**Ingestion:** Ingestion of Plaster of Paris before being wetted may result in hardening after contact with moisture from the G.I. tract. Hardening plaster may result in an obstruction, and large oral doses could cause irritation.

**Inhalation:** Dust may be released when cutting and removing the set bandage which may irritate the mucous membranes of the respiratory tract leading to sneezing, coughing etc.

#### 4. First Aid Measures:

- Eye contact:** Irrigate with clean water for at least 15 minutes. Ensure effective flushing by separating the eyelids with fingers. Seek medical attention if irritation persists.
- Skin contact:** Wash skin with soap and water after use. Seek medical attention if irritation develops or persists.
- Ingestion:** Plaster hardens when exposed to moisture and may result in an obstruction. DO NOT induce vomiting and seek medical attention.
- Inhalation:** Remove to fresh air. If not breathing, give artificial respiration and seek medical attention immediately. Medical attention is also recommended if a cough or other symptoms persist.

#### 5. Fire-fighting measures:

- General Information:** Combustion may generate irritating and/or toxic gases, and as in any fire self-contained breathing apparatus should be worn.
- Extinguishing media:** Water, sand, chemical foam, dry powder, carbon dioxide
- Fire Hazards:** None known. Product is non-flammable and non-explosive. Product hardens with water to form Calcium Sulphate Dihydrates.

#### 6. Accidental Release Measures:

- General Information:** Wear adequate protective clothing as directed in Section 8.
- Spills/Leaks:** Sweep or vacuum. Dispose of as per Section 13
- Precautions:** Do not allow product to enter drains.

#### 7. Handling and Storage

- Handling:** Handle with care and avoid unnecessary personal contact. Wash thoroughly after handling. Use with adequate ventilation and minimise dust generation and accumulation. Do not open the sealed package unless the product is to be used immediately and keep away from moisture. Do not eat, drink or smoke while handling. Keep away from sources of ignition.
- Storage:** Store in a cool, dry, well-ventilated area. Keep away from heat and high humidity. Protect product from moisture. Exposure to water, including ambient humidity, will result in hardening. Observe good housekeeping in relation to dust control.

#### 8. Exposure controls / personal protection

- Engineering Controls:** Ensure adequate wetting of the bandage in water at around 20°C in temperature. Where set bandages are removed by cutting/sawing, ensure adequate ventilation. Take action to control dust levels being generated and consider tools with built-in dust extraction features.

**Exposure Guideline:** None established. Use suitable personal protective equipment.  
**Eyes:** Wear safety glasses with side shields or safety goggles.  
**Skin:** Wear impervious gloves/clothing  
**Respiratory:** Wear a suitable approved dust mask or respirator. Follow the respirator regulations found in European Standard EN149.

## 9. Physical & Chemical Properties:

<b>Physical State:</b>	Solid
<b>Colour:</b>	White
<b>Odour:</b>	None
<b>pH:</b>	N/A
<b>Vapour Pressure:</b>	N/A
<b>Boiling Point:</b>	N/A
<b>Freezing/Melting Point:</b>	N/A
<b>Autoignition Temperature:</b>	N/A
<b>Flash Point:</b>	N/A
<b>Decomposition Temperature:</b>	N/A
<b>Solubility in Water:</b>	Insoluble
<b>Specific Gravity/Density:</b>	N/A

## 10. Stability and reactivity:

<b>Chemical Stability:</b>	Stable under normal temperatures and pressures.
<b>Conditions to Avoid:</b>	Exposure to excessive heat or moisture contamination, high humidity.
<b>Incompatible Materials:</b>	Acids, oxidising agents, ionic aluminium and magnesium.
<b>Hazardous Decomposition Products:</b>	Carbon Monoxides, carbon dioxides, oxides of sulphur and potassium.
<b>Hazardous Polymerisation:</b>	Will not occur.

## 11. Toxicological Information:

<b>RTECS#:</b>	CAS# 7778-18-9: WS6920000 CAS# 67-56-1: PC1400000
<b>LD50/LC50:</b>	Not Available
<b>Carcinogenicity:</b>	Calcium Sulphate – 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. Gauze – not thoroughly investigated. Adhesive – not thoroughly investigated.

Methanol – 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.

**Acute Toxicity:**

Ingestion – No data available.

Skin – No data available.

Inhalation – No data available.

**Irritation:**

Skin – Prolonged or repeated exposure may cause irritation.

Eyes – May cause moderate eye irritation.

Inhalation – May cause minor irritation after prolonged exposure.

## 12. Ecological Information:

**Mobility:**

No data available.

**Bioaccumulation Potential:**

No data available.

**Degradation:**

No data available.

**Ecotoxicity:**

CAS# 7778-18-9: Fish: *Lopomis macrochirus*: LC50 = 2.980 ml/l/96h

## 13. Disposal considerations:

Dispose of in compliance with all local and national regulations. Do not empty plaster filled water into drains.

## 14. Transport Information:

**Freight Classification:** This product is not classified as dangerous for carriage.

## 15. Regulatory Information:

**Hazard Symbol:** None required.

**Risk Phrases:** None required.

**Safety Phrases:** None required.

## 16. Other Information:

**Data Source:** Raw material supplier's data sheets and independent product testing.

The information supplied in this Materials Safety Data Sheet is provided as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication. This information relates only to the specific material and does not therefore guarantee its suitability for a particular application.