

**83340-MAGNESIUM SULPHATE HEPTAHYDRATE****1. IDENTIFICATION OF THE SUBSTANCE OR PREPARATION****1.1. Identification of the substance or preparation.**

Name: Magnesium sulphate heptahydrate

Bulk code: 83340

**1.2. Synonyms.**

Magnesii sulfas heptahydricus, Bittersalz

Magnesium sulphate heptahydrate, cryst

**2. DESCRIPTION**

Appearance: Crystals

Colour: Colourless

Odour: Odourless

**3. COMPOSITION/INFORMATION ON COMPONENTS**Formula:  $MgSO_4 \cdot 7H_2O$ 

CAS: 10034-99-8

Molecular weight: 246.5 g/mol

**4. PHYSICO-CHEMICAL DATA**

For more information, see the analysis report.

**Solubility:** The product is soluble in water and boiling water, slowly soluble in glycerine and insoluble in alcohol.

**5. PROPERTIES/USES**

ACTIVE PHARMACEUTICAL INGREDIENT.

ACTIVE COSMETIC INGREDIENT.

As an active pharmaceutical ingredient:

Each gram of magnesium sulphate heptahydrate contains approximately 4.1 mmol (8.1 mEq) of magnesium and sulphate. About 10.1 g of magnesium sulphate is equivalent to 1 g of magnesium.

It is a magnesium salt used mainly in states of deficiency of this ion and hypomagnesemia, often accompanied by a calcium and potassium deficiency, due to reduced ingestion, malabsorption or excess loss due to vomiting, diarrhoea or fistula secretion, usually associated with alcoholism,

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pancreatitis, aldosteronism, in renal tubular necrosis after the use of diuretics and after an infusion of magnesium-free fluids.

As an active cosmetic ingredient:

It is used as a bulking agent or a viscosity regulator.

## 6. DOSAGE

As an active pharmaceutical ingredient:

Orally:

- In mild deficiencies: 50 mmol dose of Magnesium daily.
- As a saline laxative effect: 15 g dose daily dissolved in 250 ml of water.

Rectally:

- 50% aqueous solutions can be administered rectally as an enema as an adjunct in neurosurgery to decrease the pressure of cerebrospinal fluids, in doses of 130 ml.

Topically:

- In skin inflammatory conditions, such as spots and anthrax. It should be noted that prolonged or continued application may damage the surrounding areas.
- Saturated aqueous solutions are used in baths for osteoarthritis therapy.

As an active cosmetic ingredient:

No information available.

## 7. REMARKS

### **STORAGE:**

Store at room temperature ( $25\pm 2^{\circ}\text{C}$ ), in a cool, dry place, away from sunlight, in a tightly closed container.

The product has been handled in a NON-sterile room; for batches suitable for sterile use, check availability.

## 8. BIBLIOGRAPHY

Monografías Farmacéuticas. COF Alicante, 1998.

"Martindale. The Extra Pharmacopoeia". 30th Edition. Ed. The Pharmaceutical Press. London. (1993).