

MAGNESIUM SULFATE HEPTAHYDRATE



General Information

Chemical Formula	H ₁₄ MgO ₁₁ S	MgSO₄ • 7H₂O
Synonym	Magnesium sulfate heptahydrate Sulfuric acid magnesium salt (1:1), heptahydrate	
Origin	China	
H.S. Code	28332100	
CAS No.	10034-99-8	
Molecular Weight	246.46 g mol ⁻¹	

Application

Medical Industry	Epsom salt is a common pharmaceutical preparation of magnesium and is used both externally and internally. Epsom salt is given orally as a saline laxative or osmotic purgative. It is also the main preparation of intravenous magnesium. It is also used in the replacement therapy for hypomagnesemia, used as an antiarrhythmic agent in cardiac arrest, a bronchodilator in severe exacerbations of asthma, it is given as a first aid for barium chloride poisoning.
Cosmetic Industry	Magnesium sulphate is used in bath salts and to prepare foot baths to soothe sore feet. The addition of Epsom salt increases the ionic strength and prevents temporary skin wrinkling. It also gets absorbed into the skin and reduces inflammation. It is also used in floatation therapy where high concentration of Epsom salt raises the specific gravity of the bath water and makes the body buoyant.
Other applications	It is used to maintain the magnesium concentration in marine aquaria which consists of large quantities of stony corals, in order to stabilize the calcium ions depleted by the calcification process.

Specification

Property	Units	Value
Appearance		White Crystalline Powder
Purity	%	≥99
Water Insoluble	%	≤0.005
Chloride	%	≤0.0005
Arsenic	%	≤0.0001
Iron	%	≤0.0005
Loss on ignition	%	29 – 36

Packaging

- Packed in 25kg plastic bags/ fiber drums with inner plastic bags.