

# MAGNESIUM SULFATE MONOHYDRATE



## General Information

Chemical Formula	H <sub>2</sub> MgO <sub>5</sub> S	<b>MgSO<sub>4</sub> • H<sub>2</sub>O</b>
Synonym	Magnesium sulfate monohydrate Magnesium sulfate hydrate	
Origin	China	
H.S. Code	28332100	
CAS No.	14168-73-1	
Molecular Weight	138.38 g mol <sup>-1</sup>	

## Application

Agriculture Industry	Majority of the usage of magnesium sulphate monohydrate is in agriculture, where it is used to correct a magnesium and sulphur deficiency in the soil. Certain crops require more magnesium as it is an essential mineral in chlorophyll containing food like potato, rose, tomato, lemon tree, carrot and pepper. For such crops, magnesium sulphate monohydrate is added to the soil, as a source of extra magnesium.
Chemical Industry	Magnesium sulphate is used as an electrolyte to prepare copper sulphate. A magnesium sulphate solution is electrolyzed with a copper anode to form copper sulphate, magnesium hydroxide, and hydrogen.
Brewery Industry	Magnesium sulphate is a brewing salt in beer production and is added to adjust the ion content of the brewing water and to enhance enzyme action in the mash or promote a desired flavour profile in the beer.
Other applications	It is used as a coagulant in making tofu.

## Specification

Property	Units	Value
Appearance		White Crystalline / White Small Granular
Purity	%	≥99.5
MgSO <sub>4</sub>	%	≥48.95
MgO	%	≥16.24
Mg	%	≥9.8
pH (5W.V%Sol)		5 – 9
Size	mm	0.1-1, 0.2-3, 1-4

Property	Units	Value
Ferric (Fe)	%	≤0.002
Chloride (Cl)	%	≤0.02
Heavy Metal (Pb)	%	≤0.001
Arsenic (As)	%	≤0.0002
Insoluble	%	≤0.01

## Packaging

- 25kg net in plastic woven bag lined with PE bag. 27 MT/20'FCL (without pallet) or 24MT/20'FCL (with pallet).