Manganese sulphate monohydrate

(Agriculture Grade)

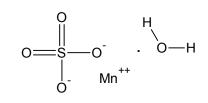
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Synonyms

Manganese monosulfate monohydrate; Manganese(II) sulfate monohydrate; Manganous sulfate monohydrate

Chemical structure and identity



	Molecular formula Molecular weight CAS number EINECS number UN number HS code	MnSO ₄ .H ₂ O 169.02 10034-96-5 232-089-9 3077 28332940
Specifications	Appearance Purity (on dry basis) Manganese content Moisture (LOD) Water insolubles at pH 5	White to light-pink coloured powder 98.7% minimum 32% minimum 0.3% maximum 0.1% maximum
	Other metal content: Iron Arsenic Cadmium Lead Mercury Aluminum Nickel Cobalt Calcium	50 ppm maximum 2 ppm maximum 2 ppm maximum 15 ppm maximum 0.3 ppm maximum 15 ppm maximum 100 ppm maximum 100 ppm maximum 0.5% maximum
Physical properties	pH of 10% solution Bulk density	5.5 to 7.0 0.9 to 1.7 g/ml
Description	Manganese sulphate monohydrate is a white to light-pink coloured powder and highly soluble in water.	
Applications	Intermediate for agrochemicals and as a soil micronutrient	
Packaging	Manganese sulphate monohydrate is available in 25 kg HDPE bags and 1,000 kg, 1,200 kg or 1,250 kg jumbo bags.	
Shelf life	36 months from the date of manufacturing	

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Storage and handling	Keep containers tightly closed and store in a cool, dry and well-ventilated area. Protect the containers against physical damage. Avoid contact with eyes, skin or clothing. Always refer to the Safety Data Sheet (SDS) for detailed information on storage and handling.
Safety	Wear protective gloves, a dust mask and goggles. Keep material away from foodstuffs, beverages and feed. Wash hands thoroughly after handling this product. Do not inhale its dust, smoke or mist. Always refer to the SDS for detailed information on safety.
First aid	Eye contact: Rinse eyes in open position for several minutes with plenty of water. Consult a physician immediately.
	Skin contact: Wash the affected area thoroughly with soap and water. Remove contaminated clothing. Consult a physician immediately.
	Ingestion: Avoid ingestion as the product is harmful. Do not induce vomiting. Consult a physician immediately.
	Inhalation: Avoid inhalation as the product is harmful. Shift the affected person to fresh air. In case of irregular breathing or respiratory arrest, provide artificial respiration. Consult a physician immediately on suspicion of intoxication.
Spills and disposal	In case of a spill, collect spilled material mechanically and place in a suitable closed container for subsequent disposal. Avoid generation of dust. Do not allow the spilled material to enter sewers, surface or groundwater. Dispose of the contents container(s) in accordance with local, regional, national or international regulations guidelines, as applicable.
Contact	E-mail: aromatics@atul.co.in Website: www.atul.co.in

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