



MAGNESIUM SULPHATE HEPTAHYDRATE TECHNICAL DATA SHEET

SYNONYMS

Bitter Salts, Epsom salts, Salt of magnesium

CHEMICAL STRUCTURE AND IDENTITY

Molecular formula	MgSO ₄ ·7H ₂ O
Molecular weight	246.47 g/mol
CAS number	10034-99-8
EINECES number	231-298-2
HS code	28332100

SPECIFICATIONS

Assay	98.5% Min
Tapped Bulk Density	0.40 to 0.60 (g/ml)
Mg	9.6% Min
MgO	16.0% Min
pH	5 - 8
Sulfur	12% Min
Lead	0.003% Max
Water Insoluble	1.0% Max

PHYSICAL PROPERTIES

Boiling Point	NA
Melting Point	150°C
Density	1.68 g/cm ³

DESCRIPTION

Magnesium sulphate heptahydrate is characterized by white free flow crystals. It is white crystalline solid, soluble in water but not in ethanol.

PACKAGING

Available in 25kg and 50kg bags. Other packaging may be considered on request.

STORAGE AND HANDLING

Provide ventilation for containers. Avoid storage near extreme heat. Ignition sources or open flame. Store away from oxidizing agents. Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dust do not accumulate on surface. Dry powders can build static electricity charges when subjected to the friction to transfer and mixing operations.



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SAFETY

The usual precautionary measures are to be adhered to when handling chemicals. Do not inhale gases/fumes/dust/mist/vapor/aerosols. Avoid contact with the eyes and skin.

FIRST AID MEASURES

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

Skin contact: immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.

Eye contact: immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation develops, get medical aid.

Ingestion: Do not induce vomiting. Get medical aid if irritation or symptoms occur.

SPILL AND DISPOSAL

Ventilate area of leak or spill. Wear appropriate personal protective equipment. It must not be disposed with household garbage. It disposed as per local, regional and national hazardous waste regulation.

CONTACT

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