

SAFETY DATA SHEET**MAGNESIUM SULFATE HEPTAHYDRATE (MgSO₄ + 7H₂O)
Agricultural Grade****Section 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION****Manufacturer or Importer's Name:**

Fertizona de Mexico, S.A. de C.V.
Blvd. Enrique Mazón Lopez esquina con
Calle Rogelio Villanueva Varela SN
Colonia La Victoria
Hermosillo, Sonora, Mexico 83304

EMERGENCY TELEPHONE NO.:

DAYS: 011-52 (662) 280.0121
24 Hour Emergency HAZMAT Response: (928) 783.3803

Distributor's Name:

Fertilizer Company of Arizona, Inc.
2850 South Peart Road
Casa Grande, AZ 85193-9024

EMERGENCY TELEPHONE NO.:

DAYS: (520) 836.7477
24 Hour Emergency HAZMAT Response: (928) 783.3803

PRODUCT NAME:**PRODUCT DESCRIPTION:****SYNONYMS OR COMMON NAME:****EPA REG. NO.:****OTHER DATA:**

Epsom Salt, Magnesium Sulfate

Magnesium sulfate, heptahydrate

Epsomite

Not applicable

None

CHEMICAL FAMILY:

Inorganic

MSDS Revisions: New

Date Of Issue: 11/21/2013

**Section 2 COMPOSITION, INFORMATION ON INGREDIENTS
(Note: see product tag or label for specific ingredients)**

Chemical Name and Synonyms	CAS No.	Chemical Formula	WT% Hazardous	ACGIH TLV	OSHA PEL
None listed					
Magnesium sulfate, heptahydrate; Epsom Salt	10034-99-8*	MgSO ₄ - 7H ₂ O	Non-Hazardous 100%	Not Established	Not Established

*Under the Toxic Substances Control Act (TSCA), hydrates are considered as mixtures of their anhydrous salt and water. Accordingly, the CAS Numbers 7487-88-9, 7732-18-5 are used for purposes of TSCA.

Section 3 HAZARDS IDENTIFICATION**Emergency Overview:**

White or transparent crystalline odorless powder. Noncombustible. At very high temperatures, magnesium oxide, sulfur dioxide, and sulfur trioxide may be generated. Causes mild eye irritation.

Ingestion:

Causes nausea, vomiting, abdominal cramps, and diarrhea.

Inhalation:

Causes nausea, vomiting, abdominal cramps, and diarrhea.

Eye Contact:

Can cause mild irritation to the eyes.

Skin Contact:

No known adverse effects.

Skin Absorption:

Is not absorbed through the skin.

Chronic hazards:

No known chronic hazards. Not listed by NTP, IARC, or OSHA as a carcinogen.

Physical hazards:

Spilled material can be slippery.

Section 4 FIRST AID MEASURES

Eyes: In case of contact, flush eyes immediately and thoroughly with running water for 15 minutes, if condition persists, get medical attention.

Skin: Not applicable.

Ingestion: If a large amount is ingested, call a physician immediately. Do NOT induce vomiting unless directed to do so by a physician. Never give anything by mouth to an unconscious person.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Section 5 FIRE FIGHTING MEASURES**Flammable Limits:**

This material is noncombustible.

Extinguishing Media:

This material is compatible with all extinguishing media.

Hazards to Firefighters:

See Section 3 for information on hazards when this material is present in the area of a fire.

Firefighting Equipment:

The following protective equipment for firefighters is recommended when this material is present in the area of a fire: chemical goggles, body-cover protective clothing, self-contained breathing apparatus.

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Personal Protection: Wear chemical goggles. See Section 8
Environmental Hazards: Sinks and mixes with water. No adverse effects known. Not a listed toxic chemical under SARA Title III, §313 40 CFR Part 372. Not a CERCLA Hazardous Substance under 40 CFR Part 302.
Small spill cleanup: Sweep, scoop, or vacuum discharged material. Flush residue with water. Observe environmental regulations.
Large spill cleanup: Keep unnecessary people away; isolate hazard area and deny entry. Do not touch or walk through spilled material. Sweep, scoop, or vacuum discharged material. Flush residue with water. Observe environmental regulations.
CERCLA RQ: There is no CERCLA Reportable Quantity for this material.

Section 7 HANDLING AND STORAGE

Handling: Avoid breathing dust. Promptly clean up spills.
Storage: Keep containers closed. Protect from extremes of temperature and humidity during storage. Recommended storage conditions 68-110° F and 54-87% relative humidity.

Section 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Use with adequate ventilation. Safety shower and eyewash fountain should be within direct access.
Respiratory Protection: Use a NIOSH-approved dust respirator where dust occurs. Observe OSHA regulations for respirator use (29 CFR §1910.134).
Skin Protection: Wear gloves if abrasion or irritation occurs.
Eye Protection: Safety glasses or chemical splash-proof goggles.

Section 9 PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point:	Not applicable	Flashpoint:	Non-flammable
Appearance:	Crystalline odorless powder	Reaction with Water:	None
Color:	White or transparent	Odor:	Odorless
Specific Gravity:	1.76 g/cm ³ , Bulk Density Approximately 1.05 g/cm ³	Vapor Pressure, mm Hg:	Not applicable
pH:	Approximately 6.0-7.0	% Volatile (by volume):	Not applicable
Solubility in Water:	Fully - 71 g/100 ml at 20° C, 91 g/100 ml at 40° C	Other Data:	Decomposes at 124° C
Fusion Temperature:	24° C	Molecular Weight:	246.4564
Extinguishing Media:	Non-flammable. Use media suitable to extinguish source of fire.		

Section 10 STABILITY AND REACTIVITY

Stability (Normal Conditions): Stable under all condition of use and storage
Incompatibility (Materials to Avoid): Etoxyethyleneic alcohols, metal hydrides and other water reactive materials. **CONDITIONS TO AVOID:** None
Hazardous Decomposition Products: At very high temperatures, magnesium oxide, sulfur dioxide, and sulfur trioxide may be generated.

Section 11 TOXICOLOGICAL INFORMATION

Acute Data: When tested for primary irritation potential, this material caused mild eye irritation. RTECS reports Oral TDLo = 428 mg/kg in man and 351 mg/kg in women.

Section 12 ECOLOGICAL INFORMATION

Ecotoxicity: Data not available.
Environmental Fate: This material is not persistent in aquatic systems and does not contribute to BOD. It does not bioconcentrate up the food chain.
Physical/Chemical: Sinks and mixes with water.

Section 13 DISPOSAL CONSIDERATIONS

Classification: Disposed material is not a hazardous waste.
Waste Disposal Procedures: Contain spills and maximize recovery. Disposal of spilled material should be in accordance with applicable federal, state and local environmental regulatory requirements. Use as a fertilizer by applying to soil using good agricultural and soil management. Disposed material is not a RCRA Hazardous Waste.

Section 14 TRANSPORT INFORMATION

Shipping name:	Not regulated by D.O.T.	DOT UN Status:	This material is not regulated hazardous material for transportation.
Hazard Class:	None	C.A.S. Number:	See "Ingredients"
Reportable Quantity (RQ):	None	D.O.T. Number:	None
Labels Required:	None	Haz Waste No:	None
Placard:	None	EPA Regist No:	None

Section 15 REGULATORY INFORMATION

CERCLA: No CERCLA Reportable Quantity has been established for this material.
SARA TITLE III: Not an Extremely Hazardous substance under §302. Not a Toxic Chemical under §313. Hazard Categories under §§311/312: Acute
TSCA: All ingredients of this material are listed on the TSCA inventory.
FDA: Magnesium sulfate is an FDA GRAS substance pursuant to 21 CFR 184.1443.

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Flash Point (Test Method): Not applicable
Autoignition Temperature: Not applicable

Section 16	OTHER	
Flammable Limits	LOWER	UPPER
(% BY VOLUME)	N/A	N/A

MSDS STATUS: New 11/21/2013

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