

SAFETY DATA SHEET

Manufacturer

MAGNESIUM NITRATE SOLUTION HP

Section 1 - Identification

Product Magnesium Nitrate Solution HP

TradeMark Nitrogen Corp.

Address 1216 Old Hopewell Road, Tampa, FL 33619

Phone (813) 626-1181 **24 Hour Emergency** Chemtrec **Contact** (800) 424-9300

Recommended Use:

Industrial chemical for use in fertilizer production, chemical synthesis and manufacturing processes.

Section 2 - Hazard Identification



Signal Word:

WARNING

Hazard Statements

H302 Harmful if swallowed

H320 Causes serious eye irritation

H335 May cause respiratory irritation

Precautionary

Statements:

P101: If medical advice is needed, have product container or label at hand.

P102: Keep out of reach of children.

P103 Read label before use

P210 Keep away from open flames. - No Smoking

P260 Do not breathe fume, mist, spray, vapours

P264 Wash hands thoroughly after handling

P270 Do not eat, drink or smoke when using this product

P280 Wear eye protection, protective clothing, protective gloves

P331 Do NOT induce vomiting

P301+P330 IF SWALLOWED: Call a POISON CENTER or doctor / physician if you feel unwell

P302+P352 IF ON SKIN: Wash with plenty of water

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing

P332+P313 If skin irritation occurs: Get medical advice / attention

P337+P313 If eye irritation persists: Get medical advice / attention

P362 Take off contaminated clothing

P501 Dispose of contents / container according to local, regional, national, and

international regulations

Section 3 - Composition

Ingredients Component CAS. No. Percent by

Magnesium Nitrate 13446-18-9 65 - 68.5%

Hexahydrate

Mg(NO₃)₂·6H₂O

Water (H₂0) 7732-18-5 Balance

Section 4 - First Ai	d Measures
Inhalation	If inhaled: Remove person to fresh air and keep comfortable for breathing. Provide artificial respiration if necessary. Seek medical attention if necessary.
Skin Contact	If on skin (or hair): Take off all contaminated clothing. Rinse skin with soap and water for at least 15 minutes. Seek medical attention if irritation persists. Wash contaminated clothing before reuse.
Eye Contact	If in eyes: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. Seek medical attention if irritation persists.
Ingestion	If swallowed: Do NOT induce vomiting. Drink large amounts of water. Never give anything by mouth to an unconscious person. Seek medical attention.
Acute Health Hazards	High levels of nitrates may reduce the bloods ability to transport oxygen causing headache, fatigue, dizziness and blue lips and skin (methemoglobinemia). Moderate irritant of eyes, skin, mucous membranes, and contaminated tissue. Prolonged contact can result in tissue damage which could lead to blindness. Ingestion can be harmful or fatal.
Chronic Health Hazards	Methemoglobinemia is the primary health effect. Prolonged skin contact may result in dermititus (inflamation and redness of skin). Repeated ingestion of small amounts may cause weakness, depression, headaches, neurological effects and mental impairment.

Section 5 – Fire Fighting Measures

Techniques & Equipment

Suitable Extinguishing Not combustible or reactive, but can contribute to the intensity of the fire. Water spray is recommended. Halon, foam, dry chemical, CO2 or any ABC class extinguisher are acceptable. Wear self-contained breathing apparatus and full protective gear.

Chemical Hazards From Fire

In a fire this material may decompose and produce acrid vapors, magnesium compounds and oxides of nitrogen.

Special Fire Fighting Procedures

Use extinguishing agent most appropriate to surrounding materials.

NFPA Rating Health - 1 (Slight) Fire - 0 (Least)

Reactivity - 0 (Least)



Do not allow run-off from fire fighting to enter drains or water courses. Other

Section 6 - Accidental Release Measure

Personal Precautions Avoid splashing. Prevent exposure to spilled material with the use of proper PPE.

Protective Equipment PPE should include gloves, goggles and protective clothing.

Containment Avoid release to environment. Control the flow of product using dikes of soil, sand bags or other commercially available inert sorbent socks or booms.

In Case of Spill Absorb product with inert absorbent. Avoid splashing or spraying. Contain and pick up spill in diked area. Prevent discharge to sewers or water ways. If uncontaminated, recover and re-use.

Section 7 - Safe Handling & Storage

Precautions for Safe Handling & Storage

Store in a well ventilated cool dry place. Containers should be kept closed and properly labeled.

Incompatibility Flammable and combustible materials, strong reducing agents and strong acids, finely powdered metals.

Section 8 – Exposure Controls / Personal Protection

Exposure Limits	oposure Limits Component		Threshold Limit Value	Short Term Exposure Limit	Immediately Dangerous to Life or Health			
	Magnesium Nitrate (Mg(NO3)2)	Not Established	Not Established	Not Established	Not Established			
	Water (H ₂ O)	Not Established	Not Established	Not Established	Not Established			
Engineering Controls Local or general exhaust. Evewash and emergency shower facilities should be available								

Personal Protective Eyes Chemical safety goggles or safety glasses. Equipment Hands Impervious chemical protective gloves.

> Respiratory None required under normal conditions. NIOSH approved respirator if there is a mist of the product.

Protective Clothing









Goggles

Respiratory Protection

Section 9 - Physica	al & Chemical Pro	perties					
				Specific Gravity	1.350 - 1.365		
Boiling Point	> 212°F at 1 atmosphere			Molecular Weight	256.4 g/mol		
Freezing Point	< 7°C			Solubility in Water	completely soluble		
Vapor Pressure	5 mm Hg	Not flammable					
Weight per Gallon	5 mm Hg Flash Point Not flammable 11.33 lbs/gal @ 68°F pH 2.7 - 3.5						
Gallons per Ton	176.5 @ 20°C			Salt-Out Temp	21°F (-6.1°C)		
Flammability Limits	No Data Available			Auto Ignition Temp	Not Flammable		
Viscosity	10 - 13 cP			LEL	No Data Available		
Section 10 - Stabili	ty & Reactivity						
Reactivity	Product is not react	ive under normal conditi	ons. Avoid interacti	on with heat (flam	nes), oxidizers, acids or alkalis.		
Stability	Product is stable un	der normal conditions.					
Hazardous Reactions	None known. Hazardous polymerization will not occur.						
Conditions to Avoid	Keep away from direct heat sources. Avoid heating within a confined space. Avoid incompatibilities and contamination. Avoid extreme heat and protect incompatible materials.						
Incompatible Materials	Avoid contact with readily oxidizable materials, strong acids, strong reducing agents, alkalis and finely powdered metals.						
Hazardous Decomposition Products	Extreme heat may cause decomposing to acrid vapors, magnesium compounds and nitrogen oxides.						
Section 11 - Toxico	ology Information						
Routes of Exposure	Inhalation, ingestion	or skin/eye absorption					
Symptoms and Signs	Eyes	Mild eye irritation.					
of Exposure	Skin	Mild irritant.					
	Inhalation May irritate respiratory tract and mucous membranes.						
	Ingestion Can cause abdominal pain, vomiting, diarrhea and methemoglobinemia.						
Long Term Effects	Methemoglobinemia is the primary long-term health effect of over-exposure.						
Toxicity	_	set for this material.		·			
•	Rat Oral Toxicity	LD ₅₀	5,440 mg/kg				
Carcinogen	The International Ag	gency for Research on C	Cancer has not clas	sified Magnesium	Nitrate for its carcinogenic potential (IARC 1987).		
Section 12 - Ecolog	gical Information						
Water	High concentrations	may be harmful to fish	and other aquatic o	organisms.			
Ecotoxicity	In high concentrations this product may be harmful to both terrestrial and aquatic plant or animal life.						
Persistence and Degradability	No Data Available						
Bioaccumulative potential	This product is not bioaccumulative						
Mobility in soil	No Data Available						
Other adverse effects	No Data Available						
Ocation 40 Bioma	and Complete or Company						

Section 13 - Disposal Considerations

Waste Disposal must be done in accordance with local, state and federal environmental regulations. Place waste in an appropriate container with correct labeling.

Additional Information Dispose of used containers at an approved waste handling facility. Empty containers may contain residue of the product, follow label warnings even

after container is emptied.

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Not regulated as dangerous goods

Not regulated as IMDG

dangerous goods Not regulated as

IATA dangerous goods

Special Precautions None known

STCC Code 2871313

Section 15 - Regulatory Information

Chemical

United States - SARA Hazard Category

This product has been reviewed according to the EPA Hazard Categories promulgated under Sections 311 and 312 of Title III of the Superfund Amendments and Reauthorization Act (SARA) and is considered, under applicable definitions, to meet the following categories:

Fire - No Chronic - No Pressure - No Reactive - No Acute - No

SARA Title III Information

This product contains the following substances subject to the reporting requirements of Title III (EPCRA) of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

SARA Reporting

CAS No.

CERCLA RQ

(lbs.)

302 304 313

Magnesium Nitrate 13446-18-9 N/A N/A N/A N/A

CERCLA / Superfund, 40 CFR Part 117, 302 If this product contains components subject to substances designated as CERCLA reportable Quantity (RQ) Substances, it will be designated in the above table with the RQ value in pounds. If there is a release of RQ Substance to the environment, notification to the National Response Center, Washington DC (800-424-8802) is required.

TSCA Magnesium Nitrate is a hydrated form of Nitric Acid, Magnesium Salt, which is listed on the Active TSCA inventory.

Section 16 - Other Information

Issue Date 11/5/2025

Date of Revision

November 2025 SDS prepared in accordance with 29 CFR 1910.1200 Appendix D to meet Global Harmonization Standards.

Disclaimer

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