

SAFETY DATA SHEET

MAGNESIUM NITRATE SOLUTION

Section 1 – Identification

Product	Magnesium Nitrate Solution (Magnesium Nitrate, Hexahydrate)	Recommended Use:
Manufacturer	TradeMark Nitrogen Corp.	Used in the production of fertilizers and other chemicals.
Address	1216 Old Hopewell Road, Tampa, FL 33619	
Phone	(813) 626-1181 (800) 452-3107	
24 Hour Emergency Contact	Chemtrec (800) 424-9300	

Section 2 – Hazard Identification

Product is not hazardous under normal conditions.

Section 3 – Composition

Ingredients	Component	CAS. No.	Percent by Weight
	Magnesium Nitrate (Mg(NO ₃) ₂) Hexahydrate	13446-18-9	66.5%
	Water (H ₂ O)	7732-18-5	Balance

Section 4 – First Aid Measures

Inhalation	If inhaled: Remove person to fresh air and keep comfortable for breathing. Provide artificial respiration if necessary. Be observant for signs of pulmonary edema if overexposed. Seek prompt medical attention.
Skin Contact	If on skin (or hair): Take off all contaminated clothing. Rinse skin with soap and water for at least 15 minutes.
Eye Contact	If in eyes: Rinse cautiously 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 (or milk or egg whites). Never give anything by mouth to an unconscious person. Seek medical attention.
Acute Health Hazards	Moderate irritant of eyes, skin and contaminated tissue. Prolonged contact can result in tissue damage which could lead to blindness. Ingestion can be harmful or fatal.
Chronic Health Hazards	Prolonged skin contact may result in dermatitis (inflammation and redness of skin). Repeated ingestion of small amounts may cause weakness, depression, headaches, neurological effects and mental impairment.

Section 5 – Fire Fighting Measures

Suitable Extinguishing Techniques & Equipment	Not combustible or reactive, but can contribute to the intensity of the fire. Water spray is recommended. Halon, foam, dry chemical, CO ₂ 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 - 2 (Moderate), Fire - 0 (Least), Reactivity - 0 (Least)



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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, face shield and level C protective suit.
Containment	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 and Storage

Precautions for Safe Handling and 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	Component	Permissible Exposure Limit	Threshold Limit Value	Short Term Exposure Limit	Immediately Dangerous to Life or Health
	Magnesium Nitrate (Mg(NO ₃) 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.

Personal Protective Equipment
 Eyes - Chemical safety goggles and full face shield.
 Hands - Impervious gloves with gauntlet
 Respiratory - None required under normal conditions. Self contained respiratory equipment should be used under spill situations.



Gloves



Goggles



Face Shield



Apron

Section 9 – Physical and Chemical Properties

Appearance and Odor	Colorless to slightly yellowish liquid with no significant odor.					
Boiling Point	> 212°F (> 100°C) at 1 atmosphere	Specific Gravity	1.3465			
Freezing Point	N/A	Molecular Weight	N/A			
Gallons per Ton	178.09 (0.74 l/Kg)	Water Reactive	N/A			
Solubility in water	Completely soluble	Evaporative Rate	N/A			
Weight	11.23 pounds per gallon at 60°F (1.35 kg/L @ 15°C)	pH	5.5 - 6.5			
		Salt-Out Temp	15°F (-9.4°C)			
Flash Point	Not Flammable	Auto Ignition Temp	Not Flammable	Flammability Limits	N/A	LEL N/A UEL N/A

Section 10 – Stability and Reactivity

Reactivity	Product may act as an oxidizer in its dry form.
Stability	Product is stable under normal conditions.
Hazardous Reactions	Hazardous polymerization will not occur.
Conditions to Avoid	Elevated temperatures may cause container to rupture.
Incompatible Materials	Flammable and combustible materials, strong reducing agents and strong acids, finely powdered metals.
Hazardous Decomposition Products	Extreme heat may cause decomposing to acrid vapors, magnesium compounds and nitrogen oxides.



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Section 11 – Toxicology Information

Routes of Exposure	Inhalation, ingestion or skin absorption
Symptoms and Signs of Exposure	Eyes & Skin mild irritant. Inhalation of mist may irritate or burn nose, throat and lungs. Coughing, nausea, headaches and weakness are possible Ingestion will immediately irritate or burn throat. Symptoms include nausea, abdominal pain, vomiting and diarrhea. Severe overexposure can result in convulsions and collapse. Symptoms occur upon contact and include irritation of mouth, throat and esophagus. Severe ingestion exposures can be fatal.
Long Term Effects	Prolonged skin contact may result in dermatitis (inflammation and redness of skin). Repeated ingestion of small amounts may cause weakness, depression, headaches, neurological effects and mental impairment
Toxicity	No limits have been set for this material.
Carcinogen	The International Agency for Research on Cancer has not classified magnesium nitrate for its carcinogenic potential (IARC 1987).

Section 12 – Ecological Information

Water	High concentrations may be harmful to fish and other aquatic organisms.
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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.
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Section 14 – Transport Information

Shipping	This material is not hazardous as defined by 49 CFR 172.101 by the US Department of Transportation
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Section 15 – Regulatory Information

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 Pressure - No Reactive - No Acute - No Chronic - 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: <table><thead><tr><th>Chemical</th><th>CAS No.</th><th>CERCLA RQ (pounds)</th><th>SARA Reporting</th></tr></thead><tbody><tr><td colspan="4">N/A</td></tr></tbody></table>	Chemical	CAS No.	CERCLA RQ (pounds)	SARA Reporting	N/A			
Chemical	CAS No.	CERCLA RQ (pounds)	SARA Reporting						
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 on the TSCA inventory list.								

Section 16 – Other Information

Date of Revision	March 2015 - Update to sections 2, 3 and 9 to reflect formulation change. May 2014 - TSCA statement revised. January 2013 revision prepared in accordance with 29 CFR 1910.1200 Appendix D to meet Global Harmonization Standards.
Disclaimer	The information contained in this SDS refers only to the specific material designated and does not relate to any process or use with any other materials. This information is furnished free of charge and is based on data believed to be accurate and reliable as of the date hereof. It is intended for use by persons possessing technical knowledge at their own discretion and risk. Since actual use is beyond our control, no warranty, expressed or implied, and no liability is assumed by TradeMark Nitrogen Corp. in conjunction with the use of this information. Nothing herein is to be construed as a recommendation to infringe any patents. TradeMark Nitrogen Corp. assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in his use of the material.



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