

# SAFETY DATA SHEET

# **MAGNESIUM NITRATE SOLUTION**

## Section 1 - Identification

Product Magnesium Nitrate Solution

Recommended Use:

Used in the production of fertilizers.

Manufacturer TradeMark Nitrogen Corp.

Address 1216 Old Hopewell Road, Tampa, FL 33619

Phone (813) 626-1181 (800) 452-3107

24 Hour Emergency Chemtrec Contact (800) 424-9300

#### 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

P271 Use only outdoors or in a well-ventilated area

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 Weight
	Magnesium Nitrate Mg(NO <sub>3</sub> ) <sub>2</sub> ·6H <sub>2</sub> O	10377-60-3	38.5%
	Water (H <sub>2</sub> 0)	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 Special Fire Fighting

Procedures

NFPA Rating

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

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

Reactivity - 0 (Least)



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

#### Section 6 - Accidental Release Measure

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

Use extinguishing agent most appropriate to surrounding materials.

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 comustible materials, strong reducing agents and strong acids, finely powdered metals.

## Section 8 - Exposure Controls / Personal Protection

Exposure Limits	Component	Permissible Exposure			Immediately Dangerous
		Limit	Value	Exposure Limit	to Life or Health
	Magnesium Nitrate	Not Established	Not Established	Not Established	Not Established
	(Mg(NO3)2)				
	Water (H <sub>2</sub> O)	Not Established	Not Established	Not Established	Not Established
Engineering Controls	Local or general exh	naust. Eyewash and em	ergency shower fa	cilities should be a	vailable.

Personal Protective Equipment

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

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

Protective Clothing









Protective Clothing

Respiratory Protection

	I & Chemical Pro	perties			
Appearance and Odor	Colorless to slightly little to no detectable	•		Specific Gravity	1.359
Boiling Point	> 212°F at 1 atmos	phere		Molecular Weight	No Data Available
Freezing Point	< 5°F			Solubility in Water	No Data Available
/apor Pressure	No Data Available			Flash Point	Not flammable
Veight per Gallon	11.33 lbs/gal @ 68°	°F		рН	3.5 - 5.0
Gallons per Ton	177.6			Salt-Out Temp	15°F
Flammability Limits	No Data Available			Auto Ignition Temp	Not Flammable
JEL	No Data Available			LEL	No Data Available
Section 10 – Stabili	v & Reactivity				
Reactivity	· · · · · · · · · · · · · · · · · · ·	tive under normal condit	tions. Avoid interact	ion with heat (flan	nes), oxidizers, acids or alkalis.
Stability		nder normal conditions.		•	,,
Hazardous Reactions		rdous polymerization wi	II not occur		
lazaradad riodollorid	None known. Hazar	radad porymonization wi	ii not occur.		
Conditions to Avoid	Keep away from dir 120°F (49°C) and b		l heating within a co	nfined space. Avo	oid incompatibilities and contamination. Avoid temperatures above
Incompatible Materials	Avoid contact with r	readily oxidizable mater	ials, strong acids, s	trong reducing ag	ents, alkalis and finely powdered metals.
Hazardous Decomposition Products	Extreme heat may o	cause decomposing to a	acrid vapors, magne	esium compounds	and nitrogen oxides.
Section 11 – Toxico	logy Information				
Routes of Exposure	Inhalation, ingestion	n or skin/eye absorption	ı		
Symptoms and Signs	Eyes	Mild eye irritation.			
of Exposure	Skin Mild irritant.				
	Inhalation	May irritate respirator	y tract and mucous	membranes.	
	Ingestion	Can cause abdomina	l pain, vomiting, dia	rrhea and mether	noglobinemia.
ong Term Effects		a is the primary long-ter	•		
Foxicity		n set for this material.		•	
,	Rat Oral Toxicity	LD <sub>50</sub>	5,440 mg/kg		
Carcinogen	The International A	gency for Research on	Cancer has not clas	ssified Magnesium	n Nitrate for its carcinogenic potential (IARC 1987).
Section 12 – Ecolog	ical Information				
Water	High concentrations	s may be harmful to fish	and other aquatic	organisms.	
Ecotoxicity	No Data Available				
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				
Section 13 – Dispos			local otate and ford	oral application of	al regulations. Place waste in an annualist and an annual
Waste	labeling.				al regulations. Place waste in an appropriate container with correc
Additional Information	Dispose of used co	ntainers at an approved	l waste handling fac	cility. Empty contain	iners may contain residue of the product, follow label warnings even

#### Section 14 - Transport Information

DOT Not regulated as dangerous goods

IMDG Not regulated as

dangerous goods

Not regulated as

dangerous goods
Special Precautions None Known

STCC Code 2871315

#### 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

IATA

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:

01. . . . . . . . . . . .

CAS No. CERCLA RQ SARA Report

(lbs.)

SARA Reporting

302 304 313 N/A N/A N/A

Magnesium Nitrate 10377-60-3

N/A

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

CERCLA / Superfund,

40 CFR Part 117, 302

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

#### 2/12/2024

Date of Revision

February 2024 SDS updated to include STCC code. April 2023 salt out temp updated and pH adjusted. June 2019 TSCA Statement revised to include the word 'Active'. May 1, 2019 SDS updated to meet GHS Requiements. June 2018 SDS format updated. October 2017 SDS update to meet GHS Standards. August 2014 TSCA statement revised. February 2013 revision prepared in accordance with 29 CFR 1910.1200 Appendix D to meet Global Harmonization Standards.

Disclaimer

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