

SAFETY DATA SHEET

MAG-17

Section 1 – Identification

Product	MAG-17	Recommended Use:
Manufacturer	TradeMark Nitrogen Corp.	Use as a fertilizer.
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

Hazard		Warning: May cause respiratory irritation. Avoid breathing vapors. Use only in a well ventilated area.
	Respiratory Irritation	

Section 3 – Composition

Ingredients	Components	CAS. No.	Percent by Weight
	Ammonium Nitrate	6484-52-2	24.42%
	Urea	57-13-6	8.43%
	Magnesium Nitrate Anhydrous	10377-60-3	31.27%
	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. If breathing is labored, administer oxygen. Provide artificial respiration if necessary. 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 with water immediately. Check for and remove any contact lenses. Continue rinsing for at least 15 minutes. Seek medical attention if irritation persists.
Ingestion	If swallowed: Rinse mouth with water. Never give anything by mouth to an unconscious person. Seek medical attention.
Acute Health Hazards	High levels of nitrates may reduce the blood's ability to transport oxygen causing headache, fatigue, dizziness and blue lips and skin (methemoglobinemia).
Chronic Health Hazards	Methemoglobinemia is the primary health effect, but possible excessive action of the kidneys and perhaps bowels can occur.
Important Symptoms and Effects, Acute and Delayed	Symptoms/Injuries: Irritation to eyes, skin and respiratory tract. After Inhalation: Overexposure may cause irritation to the respiratory system. Exposure to decomposition compounds may cause a health hazard. After Skin Contact: No known significant effects or critical hazards After Eye Contact: Eye irritation may occur. After Ingestions: No known significant effects or critical hazards.. Chronic Symptoms/Injuries: Overexposure to this material may result in methemoglobinemia. This reduces the blood's ability to carry oxygen causing possible headache, fatigue, dizziness, shortness of breath, blue lips and skin, rapid heart rate, unconsciousness and possibly death.



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Section 5 – Fire Fighting Measures

Suitable Extinguishing Techniques & Equipment	MAG-17 is a non-flammable aqueous solution. Use extinguishing media suitable for surrounding material. Do not use a heavy water stream.
Chemical hazards From Fire	In a fire, carbon and nitrogen oxides and ammonia may be present.
Special Fire Fighting Procedures	Use extinguishing agent most appropriate to surrounding materials. Always use proper protective equipment when entering a fire area including respiratory protection. Use caution when fighting any chemical fire. Prevent the release of fire-fighting water into the environment.
NFPA Rating	Health - 1, Fire - 0, Reactivity - 0



Section 6 – Accidental Release Measures

Personal Precautions	Avoid Splashing. Prevent exposure to spilled material with the use of proper PPE. Avoid breathing mist or vapors.
Protective Equipment	PPE should include gloves, goggles, face shield and respiratory protection.
Containment	Control the flow of product using dikes of soil, sand bags or other commercially available inert sorbent socks or booms. Do not allow into drains or waterways. Do not dispose of where ground or surface water sources may be affected.
In Case of Spill	Absorb product with inert absorbant. Avoid splashing or spraying. Contain and pick up spill in diked area. Prevent discharge to sewers or water ways.

Section 7 – Safe Handling and Storage

Precautions for Safe Handling and Storage	Store in a cool well ventilated place. Needs to be kept above 32°F. Containers should be kept closed and labeled properly.
Incompatibility	Avoid contamination with strong bases and strong acids. Keep away from fire. Keep out of direct sunlight.

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
	Ammonium Nitrate	Not Established	Not Established	Not Established	Not Established
	Urea	Not Established	Not Established	Not Established	Not Established
	Magnesium Nitrate Anhydrous	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. Eye washing facilities should be available.

Personal Protective Equipment
 Eyes - Chemical safety goggles and full face shield.
 Hands - Appropriate chemical resistant gloves.
 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	Clear solution.			
Boiling Point	>212°F	Specific Gravity	1.37 at 68°F	
Freezing Point	N/A	Molecular Weight	N/A	
Vapor Pressure	N/A	Water Reactive	N/A	
Gallons per Ton	174.64	Evaporative Rate	N/A	
Solubility in water	N/A	pH	5.5 - 6.5	
Density	11.45 lbs./gal at 68°F (20°C)	Salt-Out Temp	27°F (-2.8°C)	
Flash Point	Not Flammable	Auto Ignition Temp	Not Flammable	Flammability Limits N/A
				LEL N/A UEL N/A



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Section 10 – Stability and Reactivity

Reactivity	No information available.
Stability	Product is stable under normal conditions.
Hazardous Reactions	Not established.
Conditions to Avoid	Heat and sources of ignition. Direct sunlight. Extremely high or low temperatures. Avoid contact with brass, bronze, and copper.
Incompatible Materials	Combustible materials, strong acids and strong bases.
Hazardous Decomposition Products	Extreme heat may cause decomposing to toxic fumes of nitrogen oxides.

Section 11 – Toxicology Information

Routes of Exposure	Inhalation, ingestion or skin absorption
Symptoms and Signs of Exposure	Eyes & Skin mild irritant. Inhalation of gases or mist causes irritation to the upper respiratory system, including the mucous membranes of the nose, mouth and throat. Coughing, fever, nausea, irritability, spasms, possible pneumonia, apathy, headaches, weakness and chemical burns if inhaled. Ingestion may cause upset stomach.
Long Term Effects	No data currently available.
Toxicity	No data currently available.
Carcinogen	Not classified.

Section 12 – Ecological Information

Ecotoxicity	EPA Ecological Toxicity Rating:	Aquatic toxicity considerations indicate MAG-17 solution is of a low order of toxicity to the species tested. Since MAG-17 solution is a fertilizer; it may promote eutrophication in waterways. Non-toxic to aquatic organisms as defined by USEPA.
	Acute Toxicity to Fish:	Ammonium Nitrate: (Cyprinus carpio L): 48-h: LC50= 1.15 – 1.72 mg NH3/L; (Chinook Salmon, rainbow trout, bluegill) 96-h: LC50= 420 – 1360 mg NO3/L Urea: 96 -h LC50 > 9,100 mg/L.
	Chronic Toxicity to Fish:	No data available.
	Acute Toxicity to Aquatic Invertebrates:	Ammonium Nitrate: (Daphnia magna) EC50 = 555 mg/L. Urea: (Daphnia magna) 24 - h EC50: > 10,000
	Chronic Toxicity to Aquatic Invertebrates:	Ammonium Nitrate: (Bullia digitalis) Up to 7 days: NOEC = 300 mg/L.
	Acute Toxicity to Aquatic Plants:	Urea: (Scenedesmus quadricauda) 192 hr cell multiplication inhibition test – TT> 10,000 mg/L.
	Toxicity to Soil Dwelling Organisms:	Toxicity to Other Non-Mammalian Terrestrial Species: (Pigeon) – Subcutaneous – LDLO = 16,000 mg/kg.
Toxicity to Terrestrial Plants:	No data available.	



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Section 12 (continued) – Ecological Information

Environmental Fate	Stability in Water:	Ammonium Nitrate: Stability in water: Stable to hydrolytic degradation. Urea: Stability in water: T1/2> 1 year.
	Stability in Soil:	Ammonium Nitrate: Ammonium ions bind to clay particles and leach slowly or not at all to ground water, whereas the nitrate can leach significantly. Monitoring Data: NH4 background: 0.01
	Transport and Distribution	Ammonium Nitrate: Transport: Worldwide loss after application 0.004 - 1.2 Tg/yr. Distribution: 0.251% to air; 45.4% to water; 54.2% to soil; 0.0757% to sediment Urea: Stability in water: T1/2> 1 year. Transport: 0.16% in air; 99.84% in water
Toxicity		No known toxicity.
Degradation Products	Biodegradation:	No degradation products known.
	Photodegradation:	No data available.

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

DOT	This material is Non-Hazardous as defined by 49 CFR 172.101 by the US Department of Transportation
IMDG	This material is Non-Hazardous per the IMDG Code

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

All intentional ingredients listed on the TSCA inventory.

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 Title III Information	Chemical	CAS No.	CERCLA RQ (pounds)	SARA Reporting		
				302	304	313
	Ammonium Nitrate	6484-52-2	N/A	N/A	N/A	Yes ⁽¹⁾
	Urea	57-13-6	N/A	N/A	N/A	N/A
	Magnesium Nitrate	10377-60-3	N/A	N/A	N/A	Yes ⁽¹⁾

⁽¹⁾ As nitrate compounds (water dissociable)

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.
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Section 16 – Other Information

Date of Revision	Safety Data Sheet created June 2017 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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