## TRADEMARK NITROGEN





## 83% AMMONIUM NITRATE SOLUTION

## Section 1 – Identification Product 83% Ammonium Nitrate Solution Recommended Use: As a component in the manufacturing of various industrial products. Manufacturer TradeMark Nitrogen Corp. 1216 Old Hopewell Road, Tampa, FL 33619 Address (813) 626-1181 (800) 452-3107 Phone 24 Hour Chemtrec Emergency (800) 424-9300 Contact Section 2 – Hazard Identification GHS03 GHS07 GHS08 Signal Word: WARNING Classification: Oxidizing Liquids, Category 3 Hazard Statements Eye Irritation, Category 2A H315 Causes skin irritation H320 Causes eye irritation H371 May cause damage to organs (blood) H272 May intensify fire; oxidizer H402 Harmful to aquatic life Precautionary Statements: P210 Keep away from open flames. - No Smoking P220 Keep / Store away from combustible materials P221 Take any precaution to avoid mixing with combustible materials 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 P273 Avoid release to the environment P280 Wear eye protection, protective clothing, protective gloves P302+P352 IF ON SKIN: Wash with plenty of water 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 P370+P378 IN CASE OF FIRE: use water in large amounts, water spray for extinction P405 Store locked up P501 Dispose of contents / container according to local, regional, national, and international regulations tion 2 Cor

Section 5 - Col			
Ingredients	Component	CAS. No.	Percent by Weight
	Ammonium Nitrate (NH <sub>4</sub> NO3)	6484-52-2	83%
	Water (H20)	7732-18-5	17%
	Ingredients	Ammonium Nitrate (NH <sub>4</sub> NO3)	Ammonium Nitrate 6484-52-2 (NH <sub>4</sub> NO3)

Section 4 – First	Aid 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 persis Wash contaminated clothing before reuse.						
Eye Contact	If in eyes: Immediately h 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).						
Chronic Health Hazards	Methemoglobinemia is the primary health effect, but possible excessive action of the kidneys and perhaps bowels can occur.						
Section 5 – Fire F	ighting Measures						
Suitable Extinguishing Techniques & Equipment	83% Ammonium Nitrate is non-flammable aqueous solution. Flooding quantity of water is recommended in the event of a fire. Do not use salt water, carbon dioxide, dry chemicals or foam extinguishers.						
Chemical Hazards From Fire	If product evaporates, residual solid can be explosive. In a fire, carbon oxides, nitrogen oxides and ammonia may be present.						
Special Fire Fighting Procedures	Keep material wet to prevent nitrate salts from forming as they can support combustion or become unstable. Avoid contamination of ammonium nitrate with organic materials such as oil, sulfur, metal fines or other combustible substances as the mixture may become unstable. For large fires, apply water to the sides of the container from a distance. If that is not possible, evacuate area, if the liquid evaporates, the remaining solid may become explosive.						
NFPA Rating	Health - 1 (Slight) Fire - 0 (Least)						
	Reactivity - 3 (High) OXY - Oxidizer						
Other	Do not allow run-off from fire fighting to enter drains or water courses.						
Section 6 – Accid	ental 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. uncontaminated, recover and re-use.						
Section 7 - Safe	Handling & Storage						
Precautions for Safe Handling & Storage	<ul> <li>Storage: Store in a well ventilated cool dry place. Avoid heating Ammonium Nitrate Solution in a confined space (i.e. pipe, pump, etc.) as the solution may decompose and explode. Avoid welding on pipes or tanks that have contained Ammonium Nitrate Solution until they have been thoroughly washed out with water. Use appropriate containment to avoid environmental contamination. Do not store product in unlabeled containers or tanks. Construction of storage tanks and associated piping should be 304L stainless steel, vented against pressure build up, and protected from physical damage and corrosion. Insulation of tanks and piping systems should be mineral based and non-combustible. Ensure that 83% ammonium nitrate solution pumps are protected against loss of flow or deadheading and are thermally protected against exceeding a temperature of 325 F (160 C). Also ensure that heat traced piping systems, do not exceed the above-mentioned limits. Store in accordance with local regulations and separate from reducing agents and combustible materials.</li> <li>Hygiene: Eating, smoking, and drinking should be prohibited in areas where this product is handled, stored and processed. Wear appropriate personal protective equipment when handling oxidizers such as ammonium nitrate.</li> </ul>						
Incompatibility	Avoid contact with readily oxidizable materials, strong acids and chlorates. Contact with alkaline materials will produce ammonia. Will corrode copper, bronze and brass.						

	I Protection						
nent Permi Limit	ssible Exposure	Threshold Limit Value		Immediately Dangerous to Life or Health			
ium Nitrate Not Es <sub>3</sub> )	stablished	Not Established	Not Established	Not Established			
H2O) Not E	stablished	Not Established	Not Established	Not Established			
general exhaust. E	yewash facilities	should be available.					
tive Eyes Chemical safety goggles or safety glasses.							
tory None			SH approved resp	irator if there is a mist of the product.			
MIN I		R					
iloves	Goggles	Protective Clothing	Respiratory Prote	ction			
the second s							
	detectable odor.			1.370 @ 175°F			
at 1 atmosphere			Weight	80.05			
1 0005			Water	Miscible in Water			
			•				
s/gal @ 175 F			рн	2.0 - 6.0			
Available			Salt-Out Temp	155°F (68.3°C)			
No Data Available			Auto Ignition Temp	Not Flammable			
No Data Available LEL No Data Available							
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		ons.					
	Mill Hot boodi.						
Do not allow product to evaporate to dryness. Keep away from heat. Avoid heating within a confined space. Avoid incompatibilities, contamination and combustible materials							
Avoid contact with readily oxidizable materials, strong acids and chlorates. Contact with alkaline materials will produce ammonia. Will corrode copper, bronze and brass.							
xt evaporates, resid	ual solid (ammor	ium nitrate) can be e	xplosive. In a fire, o	carbon oxides, nitrogen oxides and ammonia may be present.			
Information							
on, ingestion or skin	/eye absorption						
on, ingestion or skin Cause	es eye irritation. F	Protect against therma	l burns.				
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	r general exhaust. E Chem Imper tory None ve Clothing Cloves Chemical Propert a diverse chemical Propert chemical Propert a diverse chemical Propert chemical Propert chemical Propert chemical Propert chemical Propert a diverse chemical Propert chemical Propert chemic	r general exhaust. Eyewash facilities Chemical safety goggle Impervious chemical provide Ve Clothing Coves Coggles	r general exhaust. Eyewash facilities should be available. Chemical safety goggles or safety glasses. Impervious chemical protective gloves. None required under normal conditions. NIO ve Clothing Coordination Coordinatio	r general exhaust. Eyewash facilities should be available. Chemical safety goggles or safety glasses. Impervious chemical protective gloves. None required under normal conditions. NIOSH approved responses ve Clothing Coogles Goggles Goggles Protective Clothing Respiratory Prote termical Properties Molecular Weight Solubility in Water is at 1 atmosphere Available Available Available Available Available Available Available Available Contractive under normal conditions. Solub contractive under normal conditions. Solub con			

Waste	Ammonium Nitrate is not considered a hazardous 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	This material is highly water soluble. Landfills receiving this material should be equipped to contain leachate.									
Section 14 – Trar	sport Informatio	n								
			the US Department of T	ransportation						
UN ID Number	UN2426		·							
Proper Shipping	Ammonium Nitrate,	Liquid, 5.1								
Hazard Class	5.1									
Packing Group	Ш			UXIDIZER	/					
JS DOT Label	5.1 (Oxidzer)			5.1						
ERG Number	140									
Section 15 – Reg	ulatory Information	on								
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 - Yes	Chronic - No					
SARA Title III	This product contai	ns the following subs	tances subject to the rep	porting requireme	ents of Title III (EPCRA	) of the Superfund Amend	dments and			
Information	Chemical	CAS No.	CERCLA RQ (lbs.)	SARA Reporting						
				302	304	313				
	Ammonium Nitrate	6484-52-2	N/A	N/A	N/A	Yes <sup>(1)</sup>				
	<sup>(1)</sup> As nitrate compo	ounds (water dissocia	ble)							
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	Ammonium nitrate salt (Nitric Acid Ammonium Salt (1:1)) is listed on the Active TSCA inventory.									
Section 16 – Oth	er Information									
ssue date	6/6/2025									
Date of Revision	June 2025 Section 2 updated to include additional hazard statement. September 2020 section 7 guidance updated. June 2019 TSCA Statement revise to include the word 'Active'. June 2018 SDS format updated. October 2017 SDS update to meet GHS Standards. August 2014 TSCA statement revise February 2013 revision prepared in accordance with 29 CFR 1910.1200 Appendix D to meet Global Harmonization Standards.									
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