

# SAFETY DATA SHEET

## AMMONIUM NITRATE, LIQUID - 17%

### Section 1 - Identification

Product	17% N Ammonium Nitrate, Liquid (49.0% A.N. Liquid)	Recommended Use: Used as a nitrogen fertilizer and in other manufacturing processes.
Manufacturer	Big Bend Industrial Sales	
Address	320 1st Avenue NE, Cairo, Georgia 39828	
Phone	800.321.7709	
24 Hour Emergency	ChemTel 800.255.3924	

### Section 2 - Hazard Identification

**Hazard:** Product is not hazardous under normal conditions.

### Section 3 - Composition

Ingredients	Component	CAS. No.	Percent by Weight
	Ammonium Nitrate ( $\text{NH}_4\text{NO}_3$ )	6484-52-2	49.0%
	Water ( $\text{H}_2\text{O}$ )	7732-18-5	51.0%

### Section 4 - First Aid Measures

<b>Inhalation</b>	If inhaled: Remove person to fresh air and keep comfortable for breathing. Provide artificial respiration if necessary. Seek medical attention if necessary.
<b>Skin Contact</b>	If on skin (or hair): Take off all contaminated clothing. Rinse skin with soap and water for at least 15 minutes.
<b>Eye Contact</b>	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.
<b>Ingestion</b>	If swallowed: <b>Do NOT induce vomiting.</b> Drink large amounts of water. Never give anything by mouth to an unconscious person. Seek medical attention.
<b>Acute Health Hazards</b>	High levels of nitrates may reduce the blood's ability to transport oxygen causing headache, fatigue, dizziness and blue lips and skin (methemoglobinemia).
<b>Chronic Health Hazards</b>	Methemoglobinemia is the primary health effect, but possible excessive action of the kidneys and perhaps bowels can occur.

### Section 5 - Fire Fighting Measures

Suitable Extinguishing Media & Equipment	17% N ammonium nitrate liquid is non-flammable aqueous liquid. Flooding quantity of water is Tech-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 and 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 ammonia nitrate with organic materials such as oil, sulfur, metal fines or other combustible substances as the mixture may become unstable.
NFPA Rating	Health - 1 (Slight), Fire - 0 (Least), Reactivity - 0 (Least)



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## Section 6 - Accidental Release Measures

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.
Incompatibility	Avoid contact with readily oxidizable materials, strong acids and chlorates. Contact with alkaline materials will produce ammonia. Will corrode copper, bronze and brass.

## 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 (NH <sub>4</sub> NO <sub>3</sub> )	Not Established	Not Established	Not Established	Not Established
	Water (H <sub>2</sub> O)	Not Established	Not Established	Not Established	Not Established

Engineering Controls Local or general exhaust. Eyewash facilities should be available.

Personal Protective Equipment  
Eyes - Chemical safety goggles or safety glasses.  
Hands - Impervious gloves.  
Respiratory - None required under normal conditions.  
NIOSH approved respirator if there is a mist of the product.



Gloves



Goggles

or



Safety Glasses

## Section 9 - Physical and Chemical Properties

Appearance and Odor	Clear liquid with little to no detectable odor.						
Boiling Point	> 212°F at 1 atmosphere		Specific Gravity	1.19 - 1.21			
Freezing Point	< 32°F		Molecular Weight	N/A			
Vapor Pressure	0.06 psia at 60°F		Weight Water	N/A			
Gallons per Ton	194.74		Reactive	N/A			
Weight per Gallon	10.27 pounds at 60°F (1.23 kg/L)		Evaporative Rate	N/A			
Solubility in water	Miscible in water		pH	5.55 - 6.55			
			Salt-Out Temp	17°F			
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 is not reactive under normal conditions.
Stability	Product is stable under normal conditions.
Hazardous Reactions	Hazardous polymerization will not occur.
Conditions to Avoid	Do not allow product to evaporate to dryness. Elevated temperatures may cause container to rupture.
Incompatible Materials	Avoid contact with readily oxidizable materials, strong acids and chlorates. Contact with alkaline materials will produce ammonia. Will corrode copper, bronze and brass.
Hazardous Decomposition Products	If product evaporates, residual solid (ammonium nitrate) can be explosive. In a fire, carbon oxides, nitrogen oxides and ammonia may be present.



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Section 11 - Toxicology Information						
Routes of Exposure	Inhalation, ingestion or skin/eye absorption					
Symptoms and Signs of Exposure	<b>Eyes &amp; Skin</b> mild irritant. <b>Inhalation</b> of mist may irritate respiratory tract causing cough and sore throat. <b>Ingestion</b> can cause abdominal pain, vomiting, diarrhea and methemoglobinemia.					
Long Term Effects	Methemoglobinemia is the primary health effect.					
Toxicity	No limits have been set for this material.					
Carcinogen	The International Agency for Research on Cancer has not classified ammonium nitrate solution for its carcinogenic potential (IARC 1987).					
Section 12 - Ecological Information						
Water	Low concentrations are not toxic to fish or other aquatic organisms. High concentrations may be toxic to aquatic life and encourage excessive algae growth.					
Section 13 - Disposal Considerations						
Disposal	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.					
Section 14 - Transport Information						
DOT	17% Ammonium Nitrate Liquid is not hazardous as defined by 49 CFR 172.101 by the US Department of Transportation					
IMDG	This material is not classified as a Dangerous Good 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:  Fire - No      Pressure - No      Reactive - No      Acute - Yes      Chronic - No All intentional ingredients listed on the TSCA inventory.					
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:					
	Chemical	CAS No.	CERCLA RQ (pounds)	SARA Reporting		
	Ammonium Nitrate	6484-52-2	N/A	302 N/A	304 N/A	313 Yes <sup>(1)</sup>
	<sup>(1)</sup> 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.					
TSCA	Ammonium nitrate (Nitric Acid Ammonium Salt (1:1)) is listed on the TSCA inventory.					
Section 16 - Other Information						
Date of Revision	August 2024 revision prepared in accordance with 29 CFR 1910.1200 Appendix D to meet Global Harmonization Standards.					



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