

## AMMONIUM SULFATE

### Section 1 – Identification

Product	Ammonium Sulfate	Recommended Use:
		Land application as fertilizer (nitrogen and sulfur)
Manufacturer	TradeMark Nitrogen Corp.	
Address	1216 Old Hopewell Road, Tampa, FL 33619	
Phone	(813) 626-1181	
24 Hour	Chemtrec	
Emergency	(800) 424-9300	
Contact		

### Section 2 – Hazard Identification



GHS07

Signal Word: **WARNING**

#### Hazard Statements

- H303 May be harmful if swallowed
- H320 Causes eye 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
- P501 Dispose of contents / container according to local, regional, national, and international regulations

### Section 3 – Composition

Ingredients	Component	CAS. No.	Percent by Weight
	Ammonium Sulfate	7783-20-2	30 - <40%
	Water (H <sub>2</sub> 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. 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 flush 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 blood's 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 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	This product is not flammable. Water fog is recommended. Dry chemical, CO <sub>2</sub> or any ABC class extinguisher are acceptable. Wear self-contained breathing apparatus and full protective gear.
Chemical Hazards From Fire	Do not use water jet as an extinguisher, as this will spread the fire.
Special Fire Fighting Procedures	This product is not flammable. May explode if mixed with oxidizers. Flammable ammonia gas may be released in a fire.
NFPA Rating	Use extinguishing agent most appropriate to surrounding materials.
Other	Health - 1 (Slight) Fire - 0 (Least) Reactivity - 0 (Least)
	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.
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. Protect from moisture. Containers should be kept closed and properly labeled. Keep away from heat and sources of ignition. Keep away from combustible material.
Incompatibility	Flammable and combustible materials.

## 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 Sulfate	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 and emergency shower facilities should be available.

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



Gloves



Protective Clothing



Goggles



Respiratory Protection

## Section 9 – Physical & Chemical Properties

Appearance and Odor  
Colorless to slightly yellowish liquid, odorless to slight ammonia or bisulfate odor.

Specific Gravity 1.2

Boiling Point > 212°F at 1 atmosphere

Molecular Weight No Data Available

Freezing Point < 14°F

Solubility in Water Completely soluble in Water

Vapor Pressure No Data Available

Flash Point Not flammable

Weight per Gallon 10 lbs/gal @ 60°F

pH 5.5 - 6.5

Gallons per Ton 200

Salt-Out Temp < 14°F

Flammability Limits No Data Available

Auto Ignition Temp Not Flammable

UEL No Data Available

LEL No Data Available

## Section 10 – Stability & Reactivity

Reactivity  
Product is not reactive under normal conditions.

Stability  
Product is stable under normal conditions.

Hazardous Reactions  
None known. Hazardous polymerization will not occur.

Conditions to Avoid  
Keep away from direct heat sources. Avoid heating within a confined space. Avoid incompatibilities and contamination. Avoid temperatures above 120°F (49°C) and below 32°F (0°C).

Incompatible Materials  
Avoid contact with readily oxidizable materials, strong acids, strong reducing agents, alkalis. Reactions with alkalis or bases may generate ammonia vapors. May be corrosive to metals. Sodium Hypochlorite. Potassium Nitrate. Ammonium Nitrate Potassium Chlorate. Potassium Nitrite.

Hazardous Decomposition Products  
Sulfur oxides. Ammonia. Carbon oxides. Nitrogen oxides (NO<sub>x</sub>)

## Section 11 – Toxicology Information

Routes of Exposure  
Inhalation, ingestion or skin/eye absorption

Symptoms and Signs of Exposure  
Eyes: Mild eye irritation.

Skin: Mild irritant.

Inhalation: May irritate respiratory tract and mucous membranes.

Ingestion: Can cause abdominal pain, vomiting, diarrhea and methemoglobinemia.

Long Term Effects  
Methemoglobinemia is the primary long-term health effect of over-exposure.

Carcinogen  
The International Agency for Research on Cancer has not classified Ammonium Sulfate for its carcinogenic potential (IARC 1987).

## Section 12 – Ecological Information

Water	High concentrations may be harmful to fish and other aquatic organisms.
Ecotoxicity	This product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
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 – 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.
Additional Information	Dispose of used containers at an approved waste handling facility. Empty containers may contain residue of the product, follow label warnings even after container is emptied.

## Section 14 – Transport Information

DOT	Not regulated as dangerous goods
IMDG	Not regulated as dangerous goods
IATA	Not regulated as dangerous goods

## 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					
	Chemical	CAS No.	CERCLA RQ (lbs.)	SARA Reporting		
				302	304	313
	Ammonium Sulfate	7783-20-2	N/A	N/A	N/A	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	This product is not listed on the Active TSCA inventory.					

## Section 16 – Other Information

Issue Date	10/31/2024
Date of Revision	October 2024 SDS 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.