



American Plant Food Corporation
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(800) 634-2861 AMERICAN PLANT FOOD

SECTION 1 - PRODUCT INFORMATION

AMMONIUM SULFATE (Granular/Coarse/Standard)

Common Chemical Name:
Ammonium Sulfate

Synonyms:
Diammonium Sulfate

Molecular formula:
(NH₄)₂SO₄

Chemical Family: Inorganic Salt
Molecular Weight: 132.1

SECTION 2 - INGREDIENTS

<u>Chemical Name:</u>	<u>CAS #</u>	<u>AMOUNT</u>
SULFURIC ACID DIAMMONIUM PEL/TLV NOT ESTABLISHED	7783-20-2	100%

SECTION 3 - PHYSICAL PROPERTIES

Color: White to yellow tint
Form/Appearance: Crystalline Solid
Odor: NOT AVAILABLE

	<u>TYPICAL</u>	<u>LOW/HIGH</u>	<u>U.O.M.</u>
Specific Gravity:	Not Available		
Bulk Density:	65		lbs/cu.ft.
pH:	5.0-5.2		
Boiling Point:	Not Available		
Freezing Point:	Not Available		
Decomposition Temp:	235		°C @ 750 mm Hg
Solubility:	77		g/100 g water @ 20 C
Solubility in Water Description:	Soluble		

SECTION 4 - FIRE AND EXPLOSION DATA

	<u>TYPICAL</u>	<u>LOW/HIGH</u>	<u>U.O.M.</u>
Flash Point:	NOT AVAILABLE		
Autoignition:	NOT AVAILABLE		
Extinguishing Media:	Use water fog, foam, CO ₂ , or dry chemical extinguishing media.		
Fire Fighting Procedures:	Firefighters should be equipped with self-contained breathing apparatus and turn out gear.		
Unusual Hazards:	Hydrogen cyanide and ammonia may be released if product is exposed to fire. Fire fighters should wear air-supplied or self-contained breathing apparatus.		

SECTION 5 - HEALTH HAZARDS

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Acute Overexposure Effects:

Ammonium sulfate is moderately irritating to the eyes and mildly irritating to the skin. Systemic ammonia poisoning has been thought to occur after parenteral administration of large doses of some ammonium salts. However, this is not a relevant route of exposure.

Chronic Overexposure Effects:

There are no other known effects associated with this material.

First Aid Procedures - Skin:

Wash affected areas with soap and water. Remove and launder contaminated clothing before reuse. If irritation develops, get medical attention.

First Aid Procedures - Eyes:

Immediately rinse eyes with running water for 15 minutes. If irritation develops, get medical attention.

First Aid Procedures - Ingestion:

If swallowed, dilute with water and immediately induce vomiting. Never give fluids or induce vomiting if the victim is unconscious or having convulsions. Get immediate medical attention.

First Aid Procedures - Inhalation:

Move to fresh air. Aid in breathing, if necessary, and get immediate medical attention.

First Aid Procedures - Notes to Physicians:

None known.

First Aid Procedures - Aggravated Medical Conditions:

No data is available which addresses medical conditions that are generally recognized as being aggravated by exposure to this product. Please refer to the Toxicological Information section for effects observed in animals.

First Aid Procedures - Special Precautions:

None

SECTION 6 - REACTIVITY DATA

Stability Data:

Stable

Incompatibility:

Strong oxidizers, bases, chlorates, nitrates.

Conditions/Hazards to Avoid:

Temperatures >282° C will cause decomposition with release of ammonia and sulfur trioxide.

Hazardous Decomposition/Polymerization:

Hazardous decomposition products: Ammonia, sulfur trioxide

Corrosive Properties:

Not corrosive.

Oxidizer Properties:

Not an oxidizer.

Other Reactivity Data:

None known.

SECTION 7 - PERSONAL PROTECTION

Clothing:

Gloves, coveralls, apron, and boots as necessary to prevent contact.

Eyes:

Chemical goggles.

Respiration:

NIOSH/MSHA approved dust respirator as necessary.

Ventilation:

Use local exhaust to control to recommended P.E.L.

Explosion Proofing:

None required.

Other Personal Protection Data:

Eyewash fountains and safety showers must be easily accessible.

SECTION 8 - SPILL-LEAK/ENVIRONMENTAL

General:

Spills should be contained and placed in suitable containers for disposal in a licensed facility. This material is not regulated by RCRA or CERCLA ("Superfund"). Wear appropriate respiratory protection and protective clothing and provide adequate ventilation during clean-up.

Waste Disposal:

Incinerate or bury in a licensed facility. Do not discharge into waterways or sewer systems without proper authority.

Container Disposal:

Dispose of in a licensed facility. Recommend crushing or other means to prevent unauthorized reuse.

SECTION 9 - STORAGE AND HANDLING

General:

Temperatures > 282C will cause decomposition with release of ammonia and sulfur trioxide.

SECTION 10 - REGULATORY INFORMATION

TSCA Inventory Status

Listed on Inventory: YES

SARA - 313 Listed Chemicals:

CAS: 7783-20-2 Amount: 34%

NAME: SULFURIC ACID DIAMMONIUM SOLUTION

RCRA Hazardous Waste No.:

N/A

CERCLA: NO

Reportable Quantity: (If yes)

State Regulatory Information:

(By Component) NJ/PA/MA RTK

CAS: 7783-20-2

NAME: SULFURIC ACID DIAMMONIUM SOLUTION

Hazard Ratings:

HMIS	Health:	Fire:	Reactivity:	Special:
	1	0	0	N/A

This product is hazardous or contains components which are hazardous according to the OSHA Hazard Communication Standard.

MASSACHUSETTS RIGHT-TO-KNOW LISTED: - YES: 7783-20-2

PENNSYLVANIA RIGHT-TO-KNOW LISTED: - YES

PENNA. ENVIRONMENTAL HAZARD: - YES: 7783-20-2

SECTION 11 - TRANSPORTATION

DOT Proper Shipping Name:

N/A

DOT Technical Name:

N/A

DOT Primary Hazard Class:

N/A

DOT Secondary Hazard Class:

N/A

DOT Label Required:

N/A

DOT Placard Required:

N/A

DOT Poison Constituent:

N/A

Bill of Lading Description:

NOT REGULATED BY THE DEPARTMENT OF TRANSPORTATION

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SECTION 11 - TRANSPORTATION INFORMATION (Continued)

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END OF DATA SHEET



American Plant Food



AMMONIUM SULFATE

Formula.....(NH₄)₂SO₄
 Molecular Weight.....132.14
 CAS Registry Number 7783-20-2

TYPICAL SIEVE ANALYSIS

TYLER MESH	GRANULAR	% RETAINED		STANDARD
		GRANULAR	COARSE	
6	0	0	0	0
8	10	0	0	0
12	63	0	0	0
16	22	4	0	0
20	3	64	0	0
28	2	27	26	26
35	—	5	51	51
48	—	—	15	15
65	—	—	5	5
100	—	—	3	3

Typical Analysis - APF Ammonium Sulfate Products

PRODUCT SPECIFICATION	GRANULAR	COARSE	STANDARD
Assay, % N (dry basis)	21	21	21
Assay, % S (dry basis)	24	24	24
Water, % maximum	0.5	0.5	0.5
Approx. Density, lbs/cu.ft.	65	65	65
SGN, Approximate	200	78	N/A



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