

Material Safety Data Sheet
J. R. Simplot Company
AgriBusiness

M11070

Trade Name: Ammonium Sulfate Regular
Registration No: None

SECTION 1 CHEMICAL PRODUCT AND COMPANY INFORMATION

Manufacturer or Formulator: J.R. Simplot Company
P.O. Box 70013
Boise, ID 83707
Emergency Phone - Chemtrec: 1-800-424-9300

Product Name: Ammonium Sulfate Regular
Common Name: Ammonium Sulfate 21-0-0
Chemical Type: Salt

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name and Synonyms	C.A.S. No.	Chemical Formula	WT% Hazardous	TLV	PEL
None			Non-Hazardous		
This is a homogeneous granular product containing: Ammonium Sulfate	7783-20-2	(NH ₄) ₂ SO ₄	100%	10 mg/m ³ Nuisance Dust	15 mg/m ³ Nuisance Dust

SECTION 3 HAZARDS IDENTIFICATION

Ingestion: Small doses may cause mild discomfort. Used as a general purpose food additive for buffer and neutralizing agent.
Inhalation: Slight discomfort possible--causes readily reversible changes which disappear after end of exposure. Dust may cause further aggravation to those predisposed to respiratory problems.
Eye Contact: Slight eye abrasion possible.
Skin Absorption: Prolonged contact may cause slight skin abrasion.
Skin Contact: Slight abrasion possible.
Effects of Overdose: One reference lists that massive doses ingested or large doses administered under the skin, or in the blood stream, may cause diarrhea, and there arises the possibility of sufficient absorption to produce diuresis and systemic ammonia poisoning. Another reference lists unknown--no information on humans considered valid by authors.

SECTION 4 FIRST AID MEASURES

Ingestion: If ingested in large amount, give 2-3 glasses of water and induce vomiting. Call a doctor.
Inhalation: Should cause no problems by inhalation.
Eyes: Flush eyes with running water for 15 minutes. Seek medical attention if condition persists.
Skin: Wash skin with mild soap and water. Seek medical attention if condition persists.

SECTION 5 FIRE FIGHTING MEASURES

Extinguishing Media: Used in a solution as a fire retardant and to fight fires. Use media suitable to extinguish source of fire.
Special Fire Fighting Procedures: Use media suitable to extinguish source of fire.
Unusual Fire and Explosion Hazards: Releases NH₃ and Sulfur Oxides when decomposing. If accidentally mixed with oxidizers it will sensitize these materials and make them more reactive under fire conditions.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Environmental Precautions: Keep out of waterways and all bodies of water. Do not contaminate any body of water by direct application, cleaning of equipment or disposal. Since Ammonium Sulfate is a fertilizer, it may promote algae growth in waterways.
Steps to be taken in case material is released or spilled: Contain spill. Sweep up and scoop into suitable container for use or recycle. May be used as a fertilizer using good agronomic practices.

SECTION 7 HANDLING AND STORAGE

Precautions to be taken in handling and storing: Avoid prolonged contact with skin. Use dust mask if material is dusty. Separate from strong oxidizers such as chlorates, nitrates and nitrites.
Other Precautions: Store in cool, dry area--preferably on pallets off of floor.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation Protection: Adequate ventilation for bulk storage.
Respiratory Protection: Use dust mask if material is dusty.
Protective Clothing: Normal clean work clothing. Gloves as needed.
Eye Protection: Safety glasses with side shield.
Other: Eyewash fountain in area.

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SECTION 9

PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point:	Decomposed @ 455°F	Solubility in Water:	70g/100g H ₂ O cold, 100g/100g H ₂ O hot
Density:	66-69 lbs/ft ³	% Volatiles (by volume):	0
Flashpoint:	Non-flammable	Vapor Pressure, mm Hg:	Nil
pH:	10 g/90 g H ₂ O: 5.5 - 6.0	Evaporation Rate:	Not available
Appearance:	White or off-white crystals.	Specific Gravity:	1.1
Reaction with Water:	None	VOC:	Not available
Extinguishing Media:	Non-flammable. Used in a solution for fighting fires.		

SECTION 10

STABILITY AND REACTIVITY

Stability (Normal Conditions):	Stable
Conditions to Avoid:	None
Incompatibility (Material to Avoid):	Oxidizers.
Hazardous Decomposition Products:	Releases NH ₃ and Sulfur Oxide fumes when decomposing.
Hazardous Polymerization:	Will not occur

SECTION 11

TOXICOLOGY INFORMATION

Acute Oral Toxicity:	LD ₅₀ (rat) is 640-4,250 mg/kg; not acutely toxic by oral exposure. (TFI Product Testing Results, OECD Guideline 425)
Acute Dermal Toxicity:	LD ₅₀ (rat) is greater than 2,000 mg/kg (ppm); not acutely toxic by dermal exposure. (TFI Product Testing Results, OECD Guideline 402).
Acute Aquatic Toxicity:	Fish 96-hour LC ₅₀ is greater than 13.6-159.8 mg total NH ₃ /L; daphnia 96-hour LC ₅₀ : greater than 27 mg total NH ₃ /L. Slightly-toxic to aquatic organisms. (TFI Product Testing Results)

SECTION 12

ECOLOGICAL INFORMATION

None listed.

SECTION 13

DISPOSAL CONSIDERATIONS

Waste Disposal Procedures: Use or recycle. As the product is a fertilizer, use as fertilizer following good agronomic practices or consult local authorities.

SECTION 14

TRANSPORT INFORMATION

Shipping name:	Not regulated by D.O.T.	C.A.S. Number:	7783-20-2
Hazard Class:	None	D.O.T. Number:	None
Reportable Quantity (RQ):	None	Haz Waste No:	None
Labels Required:	None	EPA Regist No:	None
Placard:	None		

SECTION 15

REGULATORY INFORMATION

Carcinogenicity: by IARC?: Yes () No (X) by NTP?: Yes () No (X) by OSHA Yes () No (X)

Not on the 302 list of SARA reportable quantities.

SECTION 16

OTHER INFORMATION

Flash Point (Test Method):	Non-flammable	Flammable Limits	LOWER	UPPER
Autoignition Temperature:	Not applicable	(% BY VOLUME)	N/A	N/A

MSDS Version Number: 7 (3yr review)

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