

**Material Safety Data Sheet**  
**J. R. Simplot Company**  
**AgriBusiness**

M11080

Trade Name: Ammonium Sulfate Fines  
Registration No: None

**SECTION 1**

**CHEMICAL PRODUCT AND COMPANY INFORMATION**

**Manufacturer or Formulator:** J.R. Simplot Company  
P.O. Box 912  
Pocatello, ID 83204  
**Emergency Phone - Chemtrec:** 1-800-424-9300

**Product Name:** Ammonium Sulfate Fines  
**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			<b>Non-Hazardous</b>		
Ammonium Sulfate	7783-20-2	(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub>	100	10 mg/M <sup>3</sup> - Nuisance Dust	Not available

**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 NH<sub>3</sub> 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**

<b>Boiling Point:</b>	Decomposed @ 455°F	<b>Solubility in Water:</b>	70g/100g H <sub>2</sub> O cold, 100g/100g H <sub>2</sub> O hot
<b>Density:</b>	66-69 lbs/ft <sup>3</sup>	<b>% Volatiles (by volume):</b>	0
<b>Flashpoint:</b>	Non-flammable	<b>Vapor Pressure, mm Hg:</b>	Nil
<b>pH:</b>	10 g/90 g H <sub>2</sub> O: 5.5 - 6.0	<b>Evaporation Rate:</b>	Not available
<b>Appearance:</b>	White or off-white crystals	<b>Specific Gravity:</b>	1.1
<b>Reaction with Water:</b>	None	<b>VOC:</b>	Not available
<b>Extinguishing Media:</b>	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<sub>3</sub> and Sulfur Oxide fumes when decomposing.  
**Hazardous Polymerization:** Will not occur

**SECTION 11**

**TOXICOLOGY INFORMATION**

**Acute Oral Toxicity:** LD<sub>50</sub> (rat) is 640-4,250 mg/kg; not acutely toxic by oral exposure. (TFI Product Testing Results, OECD Guideline 425)  
**Acute Dermal Toxicity:** LD<sub>50</sub> (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<sub>50</sub> is greater than 13.6-159.8 mg total NH<sub>3</sub>/L; daphnia 96-hour LC<sub>50</sub>: greater than 27 mg total NH<sub>3</sub>/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**

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

<b>Flash Point (Test Method):</b>	Non-flammable	<b>Flammable Limits</b>	<b>LOWER</b>	<b>UPPER</b>
<b>Autoignition Temperature:</b>	Not applicable	(% BY VOLUME)	N/A	N/A
<b>Hazard Rating (N.F.P.A.):</b>	<b>Health: 2</b>	<b>Fire: 1</b>	<b>Reactivity: 0</b>	<b>Specific: Not applicable</b>

This N.F.P.A. rating is a recommendation by the manufacturer using the guidelines or published evaluations prepared by the National Fire Protection Association.

**MSDS Version Number:** 4 (revisions to Section 11)

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**Reviewed by:** The Department of Regulatory Affairs  
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