



The Chemical Company

## Safety Data Sheet

### AMMONIUM SULFATE - GRANULAR

Revision date : 2013/10/04  
Version: 2.0Page: 1/8  
(30082300/SDS GEN\_US/EN)

#### 1. Product and Company Identification

Company  
BASF CORPORATION  
100 Park Avenue  
Florham Park, NJ 07932, USA

24 Hour Emergency Response Information  
CHEMTREC: 1-800-424-9300  
BASF HOTLINE: 1-800-832-HELP (4357)

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Molecular formula: (NH<sub>4</sub>)<sub>2</sub>SO<sub>4</sub>

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#### 2. Hazards Identification

##### Emergency overview

**CAUTION:**  
MAY BE HARMFUL IF SWALLOWED.  
Prolonged or repeated contact may result in dermatitis.  
Do not get in eyes, on skin, or on clothing.  
Avoid inhalation of dusts/mists/vapours.  
Provide local exhaust ventilation to control vapours/mists.  
Wear NIOSH-certified chemical goggles.  
Wear chemical resistant protective gloves.  
Wear protective clothing.  
Eye wash fountains and safety showers must be easily accessible.

State of matter: solid  
Colour: white  
Odour: odourless

##### Potential health effects

**Primary routes of exposure:**  
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 liquified gases.

**Acute toxicity:**  
Of low toxicity after single ingestion. Of low toxicity after short-term skin contact.

**Irritation / corrosion:**  
Not irritating to the skin. Not irritating to the eyes.

**Sensitization:**  
Skin sensitizing effects were not observed in animal studies.

**Chronic toxicity:**

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**Carcinogenicity:** In long-term animal studies in which the substance was given in high concentrations by feed, a carcinogenic effect was not observed.

**Repeated dose toxicity:** No substance-specific organotoxicity was observed after repeated administration to animals.

**Reproductive toxicity:** The results of animal studies gave no indication of a fertility impairing effect. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

**Teratogenicity:** No indications of a developmental toxic / teratogenic effect were seen in animal studies. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

**Genotoxicity:** The substance was not mutagenic in bacteria. The substance was not mutagenic in mammalian cell culture. The substance was not mutagenic in studies with mammals.

**Signs and symptoms of overexposure:**

After inhalation of decomposition products: Risk of pulmonary edema. Symptoms can appear later.

**Potential environmental effects**

**Aquatic toxicity:**

The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations. Acutely harmful for aquatic organisms.

**Degradation / environmental fate:**

Inorganic product which cannot be eliminated from water by biological purification processes. Can be oxidized to nitrate, or be reduced to nitrogen, by microorganisms.

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### 3. Composition / Information on Ingredients

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
7783-20-2	>= 80.0 - <= 100.0 %	Ammonium sulphate

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### 4. First-Aid Measures

**General advice:**

Remove contaminated clothing.

**If inhaled:**

After inhalation of dust. Fresh air. If difficulties occur: Seek medical attention. After inhalation of decomposition products: Keep patient calm. remove to fresh air, seek medical attention.

**If on skin:**

Wash thoroughly with soap and water.

**If in eyes:**

Wash affected eyes for at least 15 minutes under running water with eyelids held open. Seek medical attention.

**If swallowed:**

Rinse mouth immediately and then drink plenty of water, seek medical attention.

**Note to physician**

**Treatment:** After inhalation of decomposition products: Pulmonary odema prophylaxis.

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### 5. Fire-Fighting Measures

Flash point:		(other) The substance/product is non-combustible.
Autoignition:		not applicable
Lower explosion limit:		not applicable
Upper explosion limit:		not applicable
Flammability:	not flammable	(other)
Self-ignition temperature:		(other) not self-igniting
		(other) The value has not be determined because of the low risk of self-ignition in consequence of the high flash-point.

**Suitable extinguishing media:**  
carbon dioxide. water spray

**Hazards during fire-fighting:**

See MSDS section 7 - Handling and storage.

ammonia. can be emitted at 235 °C

**Protective equipment for fire-fighting:**

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

**Further Information:**

Product itself is non-combustible; fire extinguishing method of surrounding areas must be considered. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

**Impact Sensitivity:**

Remarks: Based on the chemical structure there is no shock-sensitivity.

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### 6. Accidental release measures

**Personal precautions:**

Do not get in eyes, on skin, or on clothing. Take appropriate protective measures.

**Environmental precautions:**

Do not discharge into drains/surface waters/groundwater. Retain and dispose of contaminated wash water.

**Cleanup:**

For large amounts: Sweep/shovel up.

For residues: Sweep/shovel up. Rinse away with water.

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### 7. Handling and Storage

**Handling**

**General advice:**

Keep away from sources of ignition - No smoking. Handle in accordance with good industrial hygiene and safety practice.

**Protection against fire and explosion:**

Avoid all sources of ignition: heat, sparks, open flame.

**Storage**

**General advice:**

Protect against moisture. The substance/product may cake under the influence of moisture.

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**Storage incompatibility:**

General advice: Segregate from alkalis and alkalizing substances. Segregate from nitrites and alkaline substances.

### 8. Exposure Controls and Personal Protection

**Personal protective equipment****Respiratory protection:**

Observe OSHA regulations for respirator use (29 CFR 1910.134). Wear a NIOSH-certified (or equivalent) respirator as necessary.

**Hand protection:**

Wear chemical resistant protective gloves.. Consult with glove manufacturer for testing data.

**Eye protection:**

Tightly fitting safety goggles (chemical goggles).

**Body protection:**

Body protection must be chosen depending on activity and possible exposure. e.g. head protection, apron, protective boots, chemical-protection suit.

**General safety and hygiene measures:**

At the end of the shift the skin should be cleaned and skin-care agents applied.

### 9. Physical and Chemical Properties

Form:	crystalline	
Odour:	odourless	
Colour:	white	
pH value:	approx. 5	( 100 g/l, 20 °C)
melling point	approx. 350 °C	The substance / product decomposes.
(decomposition):		
onset of boiling:		(other) The substance / product decomposes therefore not determined.
Vapour pressure:	0.0000001 hPa	(25 °C) (measured) Literature data.
Density:	1.766 g/cm <sup>3</sup>	(20 °C)
Relative density:	1.77	(25 °C, 1,013 hPa) (other) Literature data.
Bulk density:	1,000 kg/m <sup>3</sup>	(20 °C)
Vapour density:		not applicable. The product is a non-volatile solid.
Partitioning coefficient n-octanol/water (log Pow):		not applicable
Viscosity, dynamic:		not applicable
Particle size:	> 1000 µm	(other)
Solubility in water:	764 g/l	(20 °C)
	843 g/l	(50 °C)

### 10. Stability and Reactivity

**Substances to avoid:**

alkaline reactive substances, nitrites

**Hazardous reactions:**

Evolution of ammonia under influence of alkalis. Reacts with alkalis and nitrites.

**Decomposition products:**

Hazardous decomposition products: ammonia

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**Thermal decomposition:**

&gt; 235 °C

To avoid thermal decomposition, do not overheat.

**Oxidizing properties:**

Based on its structural properties the product is not classified as oxidizing. (other)

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### 11. Toxicological information

**Acute toxicity***Information on: Ammonium sulphate**Assessment of acute toxicity:**Of low toxicity after single ingestion. Of low toxicity after short-term skin contact.***Oral:**

Type of value: LD50

Species: rat (male/female)

Value: 4,250 mg/kg (BASF-Test)

**Inhalation:**

Study does not need to be conducted.

**Dermal:**

Type of value: LD50

Species: rat (male/female)

Value: &gt; 2,000 mg/kg

Literature data.

**Irritation / corrosion****Skin:**

Species: rabbit

Result: non-irritant

Method: BASF-Test

**Eye:**

Species: rabbit

Result: non-irritant

Method: BASF-Test

**Sensitization:**

Guinea pig maximization test

Species: guinea pig

Result: Non-sensitizing.

Method: other

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

**Aspiration Hazard:**

not applicable

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### 12. Ecological Information

**Fish****Acute:**Fish test acute *Oncorhynchus mykiss*/LC50 (96 h): 53 mg/l

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### Aquatic Invertebrates

Acute:  
Daphnia test acute static  
Ceriodaphnia sp./EC50 (48 h): 121.7 mg/l

Chronic:  
semistatic 70 d 3.12 mg/l  
**Aquatic plants**

Toxicity to aquatic plants:  
other green algae/EC50 (18 d): 2,700 mg/l  
The details of the toxic effect relate to the nominal concentration.

### Microorganisms

Toxicity to microorganisms:  
OECD Guideline 209 aquatic  
activated sludge/EC20 (0.5 h): approx. 1,050 mg/l  
The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

### Non-Mammals

Other terrestrial non-mammals:  
Study scientifically not justified.

### Soil living organisms

Toxicity to soil dwelling organisms:  
artificial soil  
Eisenia foetida/LC50 (14 d): 201 mg/kg  
The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

### Bioaccumulation

Study scientifically not justified.

Environmental mobility:  
Transport between environmental compartments:  
Adsorption/  
Study scientifically not justified.

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## 13. Disposal considerations

Waste disposal of substance:  
Dispose of in accordance with national, state and local regulations.

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## 14. Transport Information

Land transport  
USDOT

Not classified as a dangerous good under transport regulations

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### Sea transport IMDG

Not classified as a dangerous good under transport regulations

### Air transport IATA/ICAO

Not classified as a dangerous good under transport regulations

## 15. Regulatory Information

### Federal Regulations

#### Registration status:

Chemical TSCA, US released / listed

OSHA hazard category: No data available.;

EPCRA 311/312 (Hazard categories): Not hazardous;

### State regulations

State RTK  
MA, NJ, PACAS Number  
7783-20-2Chemical name  
Ammonium sulphate

## 16. Other Information

Recommended use: fertilizers Chemical Intermediate process chemical Fire extinguishing compounds  
Laboratory chemicals

#### NFPA Hazard codes:

Health: 1 Fire: 0 Reactivity: 0 Special:

#### HMIS III rating

Health: 1 Flammability: 0 Physical hazard: 0

NFPA and HMIS use a numbering scale ranging from 0 to 4 to indicate the degree of hazard. A value of zero means that the substance possesses essentially no hazard; a rating of four indicates extreme danger. Although similar, the two rating systems are intended for different purposes, and use different criteria. The NFPA system was developed to provide an on-the-spot alert to the hazards of a material, and their severity, to emergency responders. The HMIS system was designed to communicate workplace hazard information to employees who handle hazardous chemicals.

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

#### SDS Prepared by:

BASF NA Product Regulations

msds@basf.com

SDS Prepared on: 2013/10/04

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END OF DATA SHEET



# Material Safety Data Sheet

## J. R. Simplot Company AgriBusiness

Trade Name: Simplot Ammonium Sulfate 21-0-0 +24(S)  
 Registration No: None

M11070

### SECTION 1 CHEMICAL PRODUCT AND COMPANY INFORMATION

<b>Manufacturer or Formulator:</b>	J.R. Simplot Company P.O. Box 70013 Boise, ID 83707 (208) 336-2110 1-800-424-9300	<b>Product Name:</b>	Simplot Ammonium Sulfate
<b>Emergency Phone - Chemtrec:</b>		<b>Common Name:</b>	Simplot Ammonium Sulfate 21-0-0 +24(S)
		<b>Chemical Type:</b>	Salt
		<b>Recommended use/Restrictions:</b>	Plant nutrient/Industrial use: Refer to product label for use/restrictions

### SECTION 2 HAZARD IDENTIFICATION

GHS Classification: Acute Toxicity, Oral:   4  ; Acute Toxicity, Dermal:   5  ; Skin Irritation:   3  ; Eye Effects:   2B  

Pictogram(s):



**Signal Word:** WARNING  
**Hazard Statement:** Harmful if swallowed. May be harmful in contact with skin. Causes mild skin irritation. Causes eye irritation.  
**Precautionary Statement(s):** Wash thoroughly after handling. Do not eat, drink, or smoke when using this product. Wear protective gloves, clothing, eye, and face protection. If swallowed: rinse mouth and call a poison control center or doctor if you feel unwell. If on skin wash with plenty of water and call doctor if you feel unwell. If skin irritation occurs get medical advice/attention. Specific treatment (see on label). If in eyes rinse cautiously with water for several minutes. If eye irritation persists remove contact lenses, if present and easy to do. Continue to rinse.  
**Other Hazard(s):** Nuisance Dust

### SECTION 3 COMPOSITION INFORMATION

This product contains a homogenous blend of the following ingredients:

Chemical Name and Synonyms	C.A.S. No.	Chemical Formula	WT%
Ammonium Sulfate	7783-20-2	(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub>	90-99.96%
Anti-caking agent	N/A	N/A	.04-10%

\*Ingredients without WT% are considered proprietary based on trade secrets

### SECTION 4 FIRST AID MEASURES

**Ingestion:** Small doses may cause mild discomfort. If ingested in large amount, give 2-3 glasses of water and induce vomiting. Call a doctor.  
**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. Remove to fresh air. Seek medical attention if condition persists.  
**Eyes:** Flush eyes with running water for at least 15 minutes. Seek medical attention if condition persists.  
**Skin:** Wash with soap and water. Seek medical attention if condition persists.  
**Notes to Physician:** Consult standard literature. Treatment based on the sound judgment of the physician and the individual reactions of the patient.

### SECTION 5 FIRE FIGHTING MEASURES

**Extinguishing Media:** Use media suitable to extinguish source of fire.  
**Special Fire Fighting Procedures:** Product is not combustible and is used in a solution as a fire retardant.  
**Unusual Fire and Explosion Hazards:** During extremely high temperature fire conditions, the product may reach melting point and decompose to release NH<sub>3</sub>, SO<sub>x</sub>.

### SECTION 6 ACCIDENTAL RELEASE MEASURES

**Personal Protection Precautions, Equipment and Emergency Procedures:** Wash hands after handling. Wear eye, clothing, and face protection. Rinse thoroughly with water for 15 minutes and get medical attention if irritation continues.  
**Environmental Precautions:** Keep out of water supplies, lakes, ponds, streams and rivers. This product is a fertilizer and may promote algae growth.  
**Clean up methods:** Keep from entering waterways. Sweep up material and place in suitable container for use as a fertilizer or for disposal.

### SECTION 7 HANDLING AND STORAGE

**Precautions to be taken in handling and storing:** Store in a cool, dry area. Prevent spillage and separate from strong oxidizers. Use normal safety procedures and good personal hygiene. Keep out of the reach of children.

### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name and Synonyms	TLV	PEL
Ammonium Sulfate Anti-caking agent	10mg/m <sup>3</sup> Nuisance Dust	15 mg/m <sup>3</sup> Nuisance Dust

**Engineering controls:** Use process enclosures, general dilution ventilation or local exhaust systems where necessary to maintain fugitive dust emissions below OSHA standards or in accordance with applicable regulations  
**Ventilation Protection:** Adequate ventilation.  
**Respiratory Protection:** Approved dust respirator when necessary.  
**Protective Clothing:** Protective clothing.  
**Eye Protection:** In dusty conditions, safety glasses with side shields or goggles may be necessary.

### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Boiling Point:</b>	Not listed	<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/r3	<b>% Volatiles (by volume):</b>	0
<b>Flashpoint:</b>	Non-flammable	<b>Vapor Pressure, mm Hg:</b>	Nil
<b>Flammability:</b>	Non-flammable	<b>Partition Coefficient:</b>	Not listed
<b>Upper/Lower Flammability or Explosive limit:</b>	Not applicable	<b>Odor:</b>	Not listed
<b>Autoignition Temperature:</b>	Not applicable	<b>Odor Threshold:</b>	Not listed
<b>Decomposition Temperature:</b>	455 F	<b>Melting Point:</b>	Not listed
<b>pH:</b>	10 g/90 g H <sub>2</sub> O: 5.5 - 6.0	<b>Reaction with Water:</b>	None
<b>Appearance:</b>	White or off-white crystals.	<b>Evaporation:</b>	Not listed
<b>Vapor Density:</b>	Not listed	<b>Relative Density:</b>	Not listed

Trade Name: Simplot Ammonium Sulfate 21-0-0 +24(S)  
Registration No: None

M11070

SECTION 10

STABILITY AND REACTIVITY

Chemical Stability (Normal Conditions): Stable  
Reactivity (Normal Conditions): Stable  
Conditions to Avoid: Extremely high temperatures.  
Incompatibility (Material to Avoid): Strong oxidizing agents. Prolonged contact may cause oxidation of unprotected metals.  
Hazardous Decomposition Products: During extremely high temperature fire conditions, the product may reach melting point and decompose to release NH<sub>3</sub>, SO<sub>x</sub>, PO<sub>x</sub> or CN.  
Hazardous Polymerization: Will not occur

SECTION 11

TOXICOLOGY INFORMATION

	<u>Oral LD50 (rat)</u>	<u>Dermal LD50 (rat)</u>	<u>Inhalation (rat)</u>
Ammonium Sulfate	640-4,250 mg/kg	> 2,000 mg/kg	
Symptoms: Delayed, immediate, and chronic effects (short and long term exposure):	Related to Physical, chemical, and toxicology characteristics.		
Carcinogenicity:	by IARC?: Yes ( ) No (X)    by NTP?: Yes ( ) No (X)		

SECTION 12

ECOLOGICAL INFORMATION

Keep away from bodies of water.

SECTION 13

DISPOSAL CONSIDERATIONS

Waste Disposal Procedures: Pick up with a shovel and broom and use as a fertilizer by applying to soil using good agricultural practices and soil management.

SECTION 14

TRANSPORT INFORMATION

Shipping name:	Not regulated by DOT	C.A.S. Number:	See "Ingredients"
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

TSCA: Yes ( ) No (X) , SARA: Yes ( ) No (X) , Prop 65: Yes ( ) No (X) , CERCLA: Yes ( ) No (X)

Not on the 302 list of SARA reportable quantities.

SECTION 16

OTHER INFORMATION

MSDS Version Number: 9 (Revision GHS Format 04/01/14)

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# American Plant Food Corporation

903 MAYO SHELL ROAD GALENA PARK TEXAS 77547 P.O.BOX 584  
PHONE NUMBER 713-675-2231

## GRANULAR AMMONIUM SULFATE

Chemical Formula  $(\text{NH}_4)_2\text{SO}_4$

CAS Registry Number 7783-20-2

### Technical Data Sheet - Chemical and Physical Properties

Total Nitrogen %	21
Ammoniacal Nitrogen %	21
Nitrate Nitrogen %	Non Detectable
Total Sulfur %	24
Sulfur as Sulfate %	24
RCRA Total Metals ppm	< 10
Total Carbon ppm	< 2000
Moisture %	< 0.5
Density Typical lbs/cu.ft.	65
Particle Size GRANULAR (approx)	(approx) SGN 200-210
(approx)	85% retained on 14 Tyler Mesh
Color	Light Yellow to White
Solubility % (Max Theoretical)	41
	8-0-0/9S = 38%

Our GRANULAR AMMONIUM SULFATE is different from other AMS products because we use only virgin oleum sulfuric acid in the manufacturing process. It is the purist sulfuric acid, which makes our product more **soluble** as compared to less costly, spent/merchant grade sulfuric acid used by other manufacturers. This is also why our Ammonium Sulfate has the **lowest heavy metal content** in the industry. Because of the most modern manufacturing process, the **organics are removed** before the Ammonium Sulfate liquor reaches the crystallizer. This is why we have become known as *The Nation's Supplier of Granular Ammonium Sulfate*.