

# **American Plant Food Corporation**

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# **Safety Data Sheet AMMONIUM SULFATE - All APF AMS Products**

Granular, Coarse, Standard, N-Rich, S-Sul, Solugreen, M-Pac and N-Pac

Revision date: 1/9/2015

Version 2.0 C

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1. Product and Company Identification

Company Information American Plant Food Corporation 903 Mayo Shell Road 634-2861 Galena Park, TX USA

24 Hour Emergency Response

CHEMTREC: 1-800-424-9300 American Plant Food: 1-800-

Molecular formula:

{NH4}2 SO4

2. Hazards Identification

Classification (GHS-US):

Acute Toxicity 4 (Oral) H302

Eye Irritation 2A H319

**Label Elements:** 

Signal Word (CHS-

**GHS-US** Labeling

Hazard Pictograms (GHS-US)

GHS07

Signal Word (Gris-	vvarriirig	
US)		
Hazard Statements	H302	Harmful if swallowed
(GHS-US)	H319	Causes serious eye irritation
Precautionary	P264	Wash hands and forearms thoroughly
Statements (GHS-US)		after handling.
	P270	Do not eat, drink or smoke when using

Warning

ot eat, drink or smoke when using

this product.

P280 Wear eye protection, face protection, protective clothing, protective gloves.

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P301+P312 If swallowed, call a doctor if you feel

unwell.

P305+P351+P338 If in eyes: Rinse cautiously with water for

several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

P330 If swallowed, rinse mouth.

P337+P313 If eye irritation persists: Get medical

advice/attention.

P501 Dispose of contents/container according

to local, regional, national, territorial, provincial, and international regulations.

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 organotoxcicity 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.

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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.

# 3. Composition / Information on Ingredients

<u>CAS Number</u> 7783-20-2

Content (W/W) >= 99.5 <= 100.0 %

<u>Chemical name</u> Ammonium sulphate Classification GHS-US Acute Toxicity 4 (Oral), H302

### 4. First Aid Measures

#### General Advice:

Remove contaminated clothing.

#### If inhaled:

After inhalation of dust: move to fresh air. If difficulties occur, seek medical attention. After inhalation of decomposition of products: keep patient calm, remove to fresh air, and 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) This substance/product is non-combustible.	
Autoignition:	Not applicable	
Lower explosion point:	Not applicable	
Upper explosion point:	Not applicable	
Flammability:	(other)	
Self ignition temperature:	(other) The value has not been 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:

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.

# 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.

#### <u>Storage</u>

#### General advice:

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

# Storage incompatibility:

## General advice:

Segregate from alkalies and alkalizing substances. Segregate from nitrites and alkaline substances.

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# 8. Exposure Controls and Personal Protection

#### Personal Protective Equipment:









## Respiratory protection:

Observe OHSA 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 protections, apron, protective boots, chemical protection suit

# 9. Physical and Chemical Properties

Form:	Crystalline	
Odor:	odorless	
Color:	white	
pH value:	approx. 5	( 100 g/l, 20 °C)
Melting point:	Approx 350 °C	
(Decomposition):	The substance / product decomposes.	
Onset of boiling:	(other) The substance / product decomposes therefore not determined.	
Vapor pressure:	0.0000001 hPa	( 25 °C) (measured) Literature data.

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Density:	1.766 g/cm3	( 20 °C)
Relative density:	1.77 g/cm3	( 25 °C, 1,013 hPa) (other) Literature data.
Bulk density:	1,000 kg/m3	( 20 °C)
Vapor density:	Not applicable. The product is a non-volatile solid.	
Partitioning coefficient n-:	Not applicable	
Octanol/water (low Pow):		
Viscosity, dynamic:	Not applicable	
Particle size:	> 1000 µm	
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 alkalies. Reacts with alkalis and nitrites.

### Decomposition products:

Hazardous decomposition products: ammonia

## Thermal decomposition:

> 235 °C

To avoid thermal decomposition, do not overheat.

## Oxidizing properties:

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

## 11. Toxicological information

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## Acute toxicity

Information on: Ammonium sulphate Assessment of acute toxicity:

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

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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: > 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.

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Aspiration Hazard: not applicable

12. Ecological Information

#### **Fish**

Acute:

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

## **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

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# 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.

13. Disposal considerations

### Waste disposal of substance:

Dispose of in accordance with national, state and local regulations.

14. Transport Information

Land transport

USDOT Not classified as a dangerous good under transport regulations

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

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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 CAS Number Chemical name MA. NJ. PA 7783-20-2 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.

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SDS Prepared by: APF Technical Staff www.apfcorp.net

SDS Prepared on: 12-29-14

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