



# VOLUNTARY PURCHASING GROUPS, INC.

## Safety Data Sheet

### Hi-Yield® Ammonium Sulfate

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## SECTION 1: Identification

### Product identifier

Product name Hi-Yield® Ammonium Sulfate

Substance name Ammonium Sulfate  
CAS no. 7783-20-2

### Other means of identification

Molecular formula:  $\text{({NH}_4)_2\text{SO}_4$

### Supplier's details

Name Voluntary Purchasing Groups, Inc.  
Address 230 FM 87  
Bonham, TX 75418  
USA

Telephone 855-270-4776

### Emergency phone number(s)

In the event of a medical or chemical emergency contact ChemTel, Inc.  
North American 1-800-255-3924 or worldwide Intl. + 01-813-248-0585

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## SECTION 2: Hazard identification

### Classification of the substance or mixture

### GHS label elements, including precautionary statements

### Precautionary statement(s)

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

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**Other hazards which do not result in classification**

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**SECTION 3: Composition/information on ingredients**

**Substances**

Substance name	Ammonium Sulfate
CAS no.	7783-20-2

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**SECTION 4: First-aid measures**

**Description of necessary first-aid measures**

General advice	Remove contaminated clothing.
If inhaled	After inhalation of dust, remove to fresh air. If difficulties occur, Seek medical attention.
	After inhalation of decomposition products, Keep patient calm, remove to fresh air, seek medical attention.
In case of skin contact	Wash thoroughly with soap and water.
In case of eye contact	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.

**Indication of immediate medical attention and special treatment needed, if necessary**

Note to physician:

Treatment: After inhalation of decomposition products: Pulmonary edema prophylaxis.

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**SECTION 5: Fire-fighting measures**

**Suitable extinguishing media**

Carbon Dioxide, Water Spray

**Specific hazards arising from the chemical**

Ammonia can be emitted at 235 °C.

See section 7. Handling-storage for additional hazards.

**Special protective actions for fire-fighters**

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

**Further information**

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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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## SECTION 6: Accidental release measures

### **Personal precautions, protective equipment and emergency procedures**

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

### **Environmental precautions**

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

### **Methods and materials for containment and cleaning up**

For large amounts: Sweep/shovel up

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

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## SECTION 7: Handling and storage

### **Precautions for safe 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.

### **Conditions for safe storage, including any incompatibilities**

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

Storage incompatibility: General advice: Segregate from alkalies and alkalinizing substances. Segregate from nitrates and alkaline substances.

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## SECTION 8: Exposure controls/personal protection

### **Individual protection measures, such as personal protective equipment (PPE)**

#### **Eye/face protection**

Tightly fitting safety goggles (chemical goggles).

#### **Skin protection**

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

#### **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.

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### Respiratory protection

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

### Thermal hazards

Thermal decomposition: >235 °C

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## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

Appearance/form	White crystalline solid
Odor	odorless
Odor threshold	
pH	approx. 5
Melting point/freezing point	approx 350 °C The substance /product decomposes
Initial boiling point and boiling range	
Flash point	Non-combustible
Evaporation rate	
Flammability (solid, gas)	Not flammable
Upper/lower flammability limits	
Upper/lower explosive limits	
Vapor pressure	0.0000001 hPa
Vapor density	1.766 g/cm3
Relative density	1.77
Solubility(ies)	In water
Partition coefficient: n-octanol/water	
Auto-ignition temperature	Not self-igniting
Decomposition temperature	
Viscosity	
Explosive properties	
Oxidizing properties	

### Other safety information

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.

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## SECTION 10: Stability and reactivity

### Reactivity

Reacts with alkalis and nitrites.

### Chemical stability

Thermal decomposition: >235 °C To avoid thermal decomposition, do not overheat.

### Possibility of hazardous reactions

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

### Conditions to avoid

alkaline reactive substances, nitrites

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**Hazardous decomposition products**  
Ammonia

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### SECTION 11: Toxicological information

#### Information on toxicological effects

##### Acute toxicity

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

##### Skin corrosion/irritation

Not irritating to the skin.

##### Serious eye damage/irritation

Not irritating to the eyes.

##### Respiratory or skin sensitization

Skin sensitizing effects were not observed in animal studies.

##### 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 organ toxicity 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.

##### STOT-repeated exposure

Signs and symptoms of overexposure: After inhalation of decomposition products: Risk of pulmonary edema. Symptoms can appear later.

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### SECTION 12: Ecological information

##### Toxicity

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.

##### Persistence and degradability

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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**SECTION 13: Disposal considerations**

**Disposal of the product**

If wastes and/or containers cannot be disposed of according to the product label directions, disposal of this material must be in accordance with your local or area regulatory authorities. This information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. If the material as supplied becomes a waste, follow all applicable regional, national and local laws.

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**SECTION 14: Transport information**

**DOT (US)**

Not classified as a dangerous good under transport regulations.

UN Number:

Class:

Packing Group:

Proper Shipping Name:

Reportable quantity (RQ):

Marine pollutant:

Poison inhalation hazard:

**IMDG**

Not classified as a dangerous good under transport regulations.

UN Number:

Class:

Packing Group:

EMS Number:

Proper Shipping Name:

**IATA**

Not classified as a dangerous good under transport regulations.

UN Number:

Class:

Packing Group:

Proper Shipping Name:

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**SECTION 15: Regulatory information**

**Safety, health and environmental regulations specific for the product in question**

**New Jersey Right To Know Components**

CAS# 7783-20-2

**Pennsylvania Right To Know Components**

CAS# 7783-20-2

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**Maine Right To Know Components**  
CAS# 7783-20-2

**Toxic Substances Control Act (TSCA) Inventory**  
Chemical - released/listed

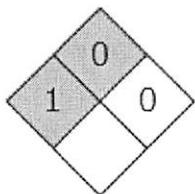
**OSHA**  
no data available

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

**HMIS Rating**

Ammonium Sulfate	
<b>HEALTH</b>	1
<b>FLAMMABILITY</b>	0
<b>PHYSICAL HAZARD</b>	0
<b>PERSONAL PROTECTION</b>	

**NFPA Rating**



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**SECTION 16: Other information**

Recommended use: Fertilizer

Voluntary Purchasing Groups, Inc. urges each customer or recipient of this (M)SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this (M)SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific (M)SDSs, we are not and cannot be responsible for (M)SDSs obtained from any source other than ourselves. If you have obtained an (M)SDS from another source or if you are not sure that the (M)SDS you have is current, please contact us for the most current version.