VOLUNTARY PURCHASING GROUPS, INC.

Safety Data Sheet
Hi-Yield Ammonium Sulfate

SECTION 1: Identification

Product identifier

Product name	Hi-Yield Ammonium Sulfate
Product number	32177; 32179, 34177, 34179
Brand	Hi-Yield

Recommended use of the chemical and restrictions on use

Fertilizer

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

SECTION 2: Hazard identification

Classification of the substance or mixture

GHS classification in accordance with: OSHA (29 CFR 1910.1200)

GHS label elements, including precautionary statements

Hazard statement(s)

H402	Harmful to aquatic life

Precautionary statement(s)

P273	Avoid release to the environment.
P501	Dispose of contents/container to in accordance with Federal, State and local regulations.

SECTION 3: Composition/information on ingredients

Mixtures

Hazardous components

Component	Concentration
Ammonium Sulfate (CAS no.: 7783-20-2)	**90 - 100 % (weight), Proprietary**
CLASSIFICATIONS: No data available. HAZARDS: No data available.	

SECTION 4: First-aid measures

Description of necessary 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.
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 fo 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 odema prophytaxis.

SECTION 5: Fire-fighting measures

Suitable extinguishing media
Carbon Dioxide, Water Spray

Specific hazards arising from the chemical
Ammonia can be emitted at 235 ºC.
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
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.

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.

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 alkalizing substances. Segregate from nitrites and alkaline substances.

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.

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 ºC

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance/form (physical state, color, etc.)	White crystalline solid

Odor	Pungent
Odor threshold	
pH	5.5
Melting point/freezing point	
Initial boiling point and boiling range	
Flash point	
Evaporation rate	
Flammability (solid, gas)	
Upper/lower flammability limits	
Vapor pressure	
Vapor density	
Relative density	
Solubility(ies)	Soluble in water
Partition coefficient: n-octanol/water	
Auto-ignition temperature	
Decomposition temperature	
Viscosity	
Explosive properties	
Oxidizing properties	

SECTION 10: Stability and reactivity

Reactivity
Reacts with alkalies and nitrites.

Chemical stability
Thermal decomposition: >235 ºC 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

Hazardous decomposition products
Ammonia

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.

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.

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.

SECTION 14: Transport information

DOT (US)
Not dangerous goods

IMDG
Not dangerous goods

IATA
Not dangerous goods

SECTION 15: Regulatory information

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

Pennsylvania Right To Know Components
Chemical name: Sulfuric acid diammonium salt
CAS number: 7783-20-2

NFPA Rating



SECTION 16: Other information

Further information/disclaimer
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