



Safety Data Sheet
According to the (US) Hazard Communication Standard (29 CFR 1910.1200)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name Ammonium Sulfate, ACS
NCL Catalog Number A-47
Product Description Laboratory chemical
Manufacturer EMD Chemicals Inc. PO Box 70, 480 Democrat Road
Gibbstown, NJ 08027
Supplier NCL of Wisconsin, Inc. PO Box 8, Birnamwood, WI 54414
Telephone: 1-800-648-7836 Fax: 715-449-2454
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SECTION 2: HAZARDS IDENTIFICATION

GHS Classification
Aquatic Acute Category 3
Signal Word None
Pictogram None
Hazard Statements
H402 Harmful to aquatic life.
Precautionary Statements
P273 Avoid release to the environment.
P501 Dispose of contents/container to comply with local, state and federal regulations.
Other Hazards Not Contributing to the Classification None under normal conditions.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Formula (NH₄)₂SO₄
Molecular Weight 132.14 g/mol

Substance

Name	CAS #	Approximate %
Ammonium Sulfate	7783-20-2	100

SECTION 4: FIRST AID MEASURES

Description of First Aid Measures

General First Aid Measures Never give anything by mouth to an unconscious person. Seek medical advice if you feel unwell.
If Inhaled Remove person to fresh air and keep comfortable for breathing. Allow victim to rest.
In Case of Skin Contact Remove all contaminated clothing. Rinse skin with water/shower. Get medical advice/attention.
In Case of Eye Contact Rinse carefully with water for several minutes. Remove contact lenses, if present and easy to do. If eye irritation persists: get medical advice/attention.
If Swallowed Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

Most Important Symptoms/Effects Acute and Delayed

Not expected to present a significant hazard under normal conditions of use and storage.

Indication of Immediate Medical Attention and Special Treatment Needed

Seek medical attention if exposed.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media Foam. Dry powder. Sand. Carbon dioxide. Water spray.

Unsuitable Extinguishing Media Do not use high pressure water stream.

Special Hazards Arising from the Chemical No data available.

Special Protective Actions for Fire-Fighters Wear self-contained breathing apparatus and protective clothing. Keep exposed containers cool with water spray.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions Use personal protective equipment (see section 8). Evacuate area of non-essential personnel. Eliminate ignition sources. Ventilate area.

Environmental Precautions Prevent entry to surface and ground waters.

Methods and Materials for Containment and Cleaning Up Sweep or shovel into suitable containers. Minimize generation of dust. Collect spillage. Store away from other materials. Ensure compliance with local, state and federal regulations.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling Avoid contact with eyes and skin. Avoid breathing vapors. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.

Conditions for Safe Storage Including any Incompatibilities Light sensitive; keep in a tightly closed container, stored in a cool, dry, ventilated area when not in use. Store away from sunlight, which can contribute to instability. Store away from strong bases and strong oxidizers.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters Not applicable.

Appropriate Engineering Controls Material should be handled or transferred in a fume hood or with equivalent ventilation. Maintain eye-wash fountain and quick-drench facilities in work area.

Individual Protection Measures Avoid all unnecessary exposure.

Eye/Face Protection Use chemical safety goggles and /or a full face shield where splashing is possible. Contact lenses should not be worn when working with this material.

Skin Protection Rubber or neoprene gloves and additional protection including impervious boots, apron, or coveralls, as needed in areas of unusual exposure to prevent skin contact.

Respiratory Protection Wear appropriate mask.

Other Information Do not eat, drink, or smoke when using this product.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid, powder
Color	White
Odor	Odorless
Odor Threshold	Not determined
pH	Not determined
Melting Point/Freezing Point	280°C/Not determined
Initial Boiling Point and Boiling Range	Not determined
Flash Point	Not determined
Evaporation Rate	Not determined
Flammability (Solid, Gas)	Not determined
Upper/Lower Flammability/Explosive Limits	Not determined

Vapor Pressure	Not determined
Vapor Density	Not determined
Relative Density	1.77 g/ml
Solubility	Soluble in water
Partition Coefficient: n-octanol/water	Not determined
Auto-Ignition Temperature	Not determined
Decomposition Temperature	Not determined
Viscosity	Not determined

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Not available.
Chemical Stability	Not established.
Possibility of Hazardous Reactions	Not established.
Conditions to Avoid	Extremely high or low temperatures. Direct sunlight.
Incompatible Materials	Strong oxidizers and strong bases.
Hazardous Decomposition Products	Gaseous ammonia and sulfur compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity	Not classified
Skin Corrosion/Irritation	Not classified
Serious Eye Damage/Irritation	Not classified
Respiratory or Skin Sensitization	Not classified
Germ Cell Mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive Toxicity	Not classified
Specific Target Organ Toxicity (Single Exposure)	Not classified
Specific Target Organ Toxicity (Repeated Exposure)	Not classified
Aspiration Hazard	Not classified
Potential Adverse Human Health Effects and Symptoms	No data available
Chronic Symptoms	Not available
Other Information	Not available

SECTION 12: ECOLOGICAL INFORMATION

Ecology – Water Toxicity Harmful to aquatic life.

Ammonium Sulfate (7783-20-2)	
LC50 fishes 1	36.7 mg/l
EC50 Daphnia 1	433 mg/l

Persistence and Degradability	Not established
Bioaccumulative Potential	Not established
Log Pow	-1.73 (Estimated value)
Mobility in Soil	Not established
Other Adverse Effects	Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Methods of Disposal

Disposal Recommendations Dispose of contents/containers in accordance with local, state and federal regulations.

Other Information Avoid release to the surrounding environment.

SECTION 14: TRANSPORT INFORMATION

UN Number Not applicable

UN Shipping Name Not applicable

Transport Hazard Class(es) Not applicable

Packing Group Not applicable

Environmental Hazards Not applicable

Transport in Bulk Not applicable

Other Precautions Not applicable

SECTION 15: REGULATORY INFORMATION

Ammonium Sulfate (7783-20-2)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

SECTION 16: OTHER INFORMATION

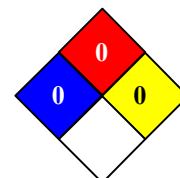
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NFPA Hazards

Health Hazard 0: Poses no health hazard, no precautions necessary and would offer no hazard beyond that of ordinary combustible materials.

Fire Hazard 0: Materials that will not burn.

Reactivity/Instability 0: Normally stable, even under fire exposure conditions, and is not reactive with water.



HMIS III Rating

Health 1: Irritation or minor reversible injury possible.

Flammability 0: Materials that will not burn.

Physical Hazard 0: Materials that are normally stable, even under fire conditions, and will not react with water.

Personal Protection A

A-47	
Health	1
Flammability	0
Physical Hazard	0
Personal Protection	A

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END OF SAFETY DATA SHEET