



IDENTIFICATION OF THE SUBSTANCE

Product Name: Ammonium Sulphate

CAS No.: 7783-20-2

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

Synonyms: Diammonium Sulfate, Sulfuric Acid Diammonium Salt

Recommended Use: Fertilizer, Industrial Chemical, Laboratory Reagent.

Emergency Contact: To Be Provided By Local Emergency Services Or Company Representative.

MANUFACTURED BY:

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HAZARD IDENTIFICATION

GHS Classification

- Acute Toxicity (Oral) – Category 4
- Eye Irritation – Category 2A

Signal Word: Danger

Hazard Statements

- **H302:** Harmful If Swallowed.
- **H319:** Causes Serious Eye Irritation.

PRECAUTIONARY STATEMENTS

- **P264:** Wash Hands Thoroughly After Handling.
- **P270:** Do Not Eat, Drink Or Smoke When Using This Product.
- **P280:** Wear Protective Gloves, Clothing, And Eye Protection.
- **P301 + P312:** IF SWALLOWED – Call A Doctor If You Feel Unwell.

PRECAUTIONARY STATEMENTS

- **P305 + P351 + P338:** IF IN EYES – Rinse Cautiously With Water For Several Minutes. Remove Contact Lenses If Present.
- **P337 + P313:** If Eye Irritation Persists, Get Medical Advice.
- **P501:** Dispose Of Contents/Container According To Local Regulations.

COMPOSITION / INFORMATION ON INGREDIENTS

Component CAS No. Concentration

Ammonium Sulphate 7783-20-2 98–100 (NH₄)₂SO₄

First AID MEASURES

Inhalation: Remove Victim To Fresh Air. Seek Medical Attention If Symptoms Persist.

Skin Contact: Wash With Plenty Of Water And Soap. Remove Contaminated Clothing.

Eye Contact: Rinse Cautiously With Clean Water For At Least 15 Minutes. Seek Medical Attention If Irritation Persists.

Ingestion: Rinse Mouth With Water. Do Not Induce Vomiting. Seek Medical Advice Immediately.

Most Important Symptoms: May Cause Irritation To Eyes, Skin, Throat, And Stomach.

Notes To Physician: Treat Symptomatically. No Specific Antidote Known.

FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Use water spray, dry chemical, foam, or carbon dioxide.

Unsuitable Media: None known.

Specific Hazards: Decomposes on heating to release ammonia, nitrogen oxides, and sulfur oxides.

Protective Equipment for Firefighters: Wear self-contained breathing apparatus and full protective gear.

ACCIDENTAL RELEASE MEASURES

- **Personal Precautions:** Avoid dust formation. Use personal protective equipment. Ensure adequate ventilation.
- **Environmental Precautions:** Prevent product from entering drains, sewers, or surface water.
- **Cleanup Methods:** Sweep or shovel into suitable containers for disposal. Wash affected area with water. Avoid raising dust.

HANDLING & STORAGE

- **Handling:** Avoid Contact With Eyes And Skin. Prevent Dust Generation. Do Not Eat, Drink, Or Smoke During Handling.
- **Storage:** Store In A Cool, Dry, Well-Ventilated Area. Keep Container Tightly Closed. Keep Away From Strong Oxidizers, Alkalies, And Moisture.

EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits: No Specific Occupational Exposure Limits Established. Observe General Dust Exposure Standards.

Engineering Controls: Use Local Exhaust Ventilation To Minimize Dust.

Personal Protective Equipment:

- **Eye/Face:** Safety Goggles Or Face Shield.
- **Skin:** Protective Gloves And Clothing.
- **Respiratory:** Dust Mask Or Respirator (N95/P2).
- **General Hygiene:** Wash Hands After Handling. Do Not Eat, Drink, Or Smoke In Work Area.

PHYSICAL & CHEMICAL PROPERTIES

Property	Value
Appearance	White Crystalline Solid
Odor	Odorless Or Faint Ammonia Odor
Molecular Weight	132.14 G/Mol
PH (10% Solution)	~3.5–5.5

PHYSICAL & CHEMICAL PROPERTIES

Property	Value
Melting Point	— 235–280 °C (Decomposes)
Density	— 1.77 G/Cm ³
Solubility (Water)	— 74 G/100 ML At 20 °C

STABILITY & REACTIVITY

Chemical Stability: Stable under recommended storage conditions.

Reactivity: Not reactive under normal use.

Incompatible Materials: Strong bases, strong oxidizers, nitrates, and chlorates.

Conditions to Avoid: High temperature, moisture, and incompatible materials.

Hazardous Decomposition Products: Ammonia, nitrogen oxides, sulfur oxides.

TOXICOLOGICAL INFORMATION

Acute Toxicity:

- LD50 (Oral, Rat): ~2840 Mg/Kg
- LD50 (Dermal): Not Available

Irritation: May Cause Eye Irritation. Prolonged Skin Contact May Cause Mild Irritation.

Inhalation: Dust May Cause Throat And Respiratory Irritation.

Chronic Effects: Prolonged Exposure May Cause Mild Respiratory Discomfort.

No Evidence Of Carcinogenic, Mutagenic, Or Reproductive Effects.

ECOLOGICAL INFORMATION

Ecotoxicity: Harmful To Aquatic Life In High Concentrations Due To Release Of Ammonium Ions.

Persistence And Degradability: Inorganic Substance; Dissociates In Water Into Ammonium And Sulfate Ions.

Bioaccumulation Potential: Low.

Mobility In Soil: Highly Soluble; May Leach Into Groundwater.

Other Adverse Effects: Avoid Large Releases Into The Environment.

DISPOSAL CONSIDERATIONS

- Dispose Of Contents And Containers In Accordance With Local, Regional, And National Regulations.
- Do Not Discharge Into Drains Or Natural Water Bodies.
- Empty Containers Should Be Rinsed And Recycled Where Possible.

TRANSPORT INFORMATION

Parameter	—	Details
UN Number	—	Not Regulated
Proper Shipping Name	—	Ammonium Sulphate
Transport Hazard Class	—	Non-Hazardous
Packing Group	—	Not Applicable
Environmental Hazards	—	Not A Marine Pollutant
Special Precautions	—	Avoid Moisture Exposure During Transport.

REGULATORY INFORMATION

- Not Classified As Hazardous Under Most National Chemical Regulations.
- Listed On TSCA, EINECS, And Other Major Inventories.
- Observe All Applicable Workplace Safety And Environmental Regulations.

OTHER INFORMATION

Prepared By	—	Meerami Interchem Pvt Ltd
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DISCLAIMER:

- The Information Provided In This Material Safety Data Sheet (MSDS) Is Believed To Be Accurate And Reliable As Of The Date Of Issue. However, It Is Not Exhaustive And Is Intended Only As A Guide To Safe Handling, Storage, And Use Under Normal Conditions. The Details Are Based On Our Current Knowledge Of The Product And Are Not To Be Construed As A Guarantee Of Its Specific Properties Or Suitability For Any Particular Application.
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End Of MSDS