



SAFETY DATA SHEET

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SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Ammonium sulfate**
PRODUCT NUMBER: 1084
CAS NUMBER: 7783-20-2
SYNONYMS: Sulfuric acid, Diammonium salt

MANUFACTURER:

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SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

HMIS CLASSIFICATION:

HEALTH: 1 FLAMMABILITY: 0 PHYSICAL: 0

NFPA RATING:

HEALTH: 1 FIRE: 0 REACTIVITY: 0

EYE CONTACT: May cause eye irritation.

SKIN CONTACT: May be harmful if absorbed through skin. May cause skin irritation.

INHALATION: May be harmful if inhaled. May cause respiratory tract irritation.

INGESTION: May be harmful if swallowed.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

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

Molecular Weight: 132.14

CHEMICAL NAME	CAS#	%
Ammonium sulfate	7783-20-2	100

SECTION 4 FIRST AID MEASURES

EYE EXPOSURE: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

SKIN EXPOSURE: Immediately wash with water and soap and rinse thoroughly.

INHALATION: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

INGESTION: Never give anything by mouth to an unconscious person. Get medical attention.

SECTION 5 FIREFIGHTING MEASURES

FLASH POINT: Not available.

AUTO IGNITION TEMPERATURE: Not available.

EXPLOSION LIMITS: Not available.

EXTINGUISHING MEDIUM: Product is not combustible; use appropriate extinguishing for surrounding fire.

SPECIAL FIRE FIGHTING PROCEDURES: If involved in fire, fire fighters should be equipped with a NIOSH approved positive pressure self-contained breathing apparatus and full protective clothing.

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: Nitrogen oxides and Sulfur oxides

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Always wear appropriate protective equipment.

ENVIRONMENTAL PRECAUTIONS: Do not allow material to be released into the environment. Do not let enter drains.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Sweep up and put in proper disposal container without creating dust.

SECTION 7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Avoid dust formation. Be sure to provide appropriate exhaust ventilation.

CONDITIONS FOR SAFE STORAGE: Store in a cool, well-ventilated area. Keep container tightly closed.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

EYE PROTECTION: Always wear approved safety glasses w/side shields, or safety goggles, face shield when handling a chemical substance in the laboratory.

SKIN PROTECTION: Wear appropriate gloves to prevent skin exposure.

VENTILATION: Handle in an efficient chemical fume hood.

RESPIRATOR: For small amounts of dusts, use dust mask. The use of respirators requires a Respirator Protection Program to be in compliance with 29 CFR 19-10.134.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND FORM: Clear crystals

MOLECULAR WEIGHT: 132.14

BOILING POINT: Not available

MELTING POINT: > 280° C

SPECIFIC GRAVITY: 1.77

VAPOR PRESSURE: Not applicable

SOLUBILITY IN WATER: Soluble

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: No data available.

SECTION 10 STABILITY AND REACTIVITY (Cont.)

INCOMPATIBILITY: Strong oxidizing agents and strong bases.

DECOMPOSITION PRODUCTS: Sulfur oxides and nitrogen oxides.

SECTION 11 TOXICOLOGICAL DATA

ACUTE TOXICITY: Toxicity to Fish: LD50 Oral – Rat – 4,250 mg/kg. LD50 Dermal – Rat - >2,000 mg/kg

RTECS : BS4500000

CARCINOGENIC EFFECTS: No component of this product presents levels greater than or equal to 0.1% and is identified as a carcinogen.

MUTAGENIC EFFECTS: No data

TETRATOGENIC EFFECTS: No data

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

SECTION 12 ECOLOGICAL DATA

TOXICITY TO FISH: LC50- *Leuciscus idus* (Golden orfe) - > 460 mg/l – 96 h

Toxicity to daphnia and other aquatic invertebrates: LD50 – *Daphnia* (water flea) – 129 mg/l – 48 h

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local state and federal regulations.

SECTION 14 TRANSPORTATION DATA

Non-hazardous material

SECTION 15 REGULATORY INFORMATION

OSHA: No known OSHA hazards

SARA 302 COMPONENTS: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 COMPONENTS: Ammonium sulfate

MASSACHUSETTS RIGHT TO KNOW: Ammonium sulfate

PENNSYLVANIA RIGHT TO KNOW: Ammonium sulfate

NEW JERSEY RIGHT TO KNOW: Ammonium sulfate

SECTION 16 OTHER INFORMATION

DISCLAIMER: The information herein is believed to be accurate and reliable as of the date compiled. However, Prochem, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information in this document or any use of the product based on the information.

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