Safety data sheet

ChemiPURE Ammonium Sulfate, ≥99%

Product name ChemiPURE Ammonium Sulfate, ≥99%	Catalog no. AS05, AS10
Synonyms Diammonium sulfate; ammonium sulphate	SDS revision -
CAS no. 7783-20-2	Format version / date 3 / 24 October 2026

01 PRODUCT AND COMPANY IDENTIFICATION

Product identifier	ChemiPURE Ammonium Sulfate, ≥99%
Product code	AS05 (500 g); AS10 (1 kg)
CAS number	7783-20-2
EC number	231-984-1
Recommended use	For research use only. Laboratory reagent for protein precipitation and fractionation.
Supplier	EcoTech Biotechnology
Website	www.ecotechbiotech.com
Address	Universite Mah. İpekyolu Cad. Ata Teknokent Sitesi B Blok No: Z10, Yakutiye, Erzurum, Türkiye
Telephone	0090 544 327 34 97
SDS contact	info@ecotechbiotech.com
Emergency telephone	0090 544 327 34 97
Available	Monday-Saturday/08:00-20:00/GMT+3
Languages	Turkish/English
Outside these hours	Contact: info@ecotechbiotech.com

02 HAZARDS IDENTIFICATION

Classification	Not classified as hazardous according to Regulation (EC) No. 1272/2008 (CLP).
Label elements	No hazardous label elements required.
Symbols / pictograms	None
Signal word	None
Hazard statements	None
Precautionary statements - Prevention	Avoid inhaling dust. Wear laboratory gloves and safety glasses. Wash hands after handling.
Precautionary statements - Response	Rinse affected eyes or skin with water. Seek medical advice if symptoms persist.
Other hazards	Dust may irritate the eyes and respiratory tract. Heating to decomposition may release irritating fumes.

Composition & response

ChemiPURE Ammonium Sulfate, ≥99% | SAFETY DATA SHEET / SECTIONS 03-05

03 COMPOSITION / INFORMATION ON INGREDIENTS

Product name	ChemiPURE Ammonium Sulfate, ≥99%
Synonyms	Ammonium sulphate; diammonium sulfate; sulfuric acid diammonium salt
Concentration	≥99% (purity)
Formula	(NH4)2SO4 (H8N2O4S)
Molecular weight	132.14 g/mol
Mixture statement	Substance: ammonium sulfate (CAS 7783-20-2; EC 231-984-1), purity ≥99%. The composition of the remaining fraction is not specified.

04 FIRST AID MEASURES

4.1 Description of first aid measures

Eye contact	Rinse with plenty of water, also under the eyelids, for at least 15 minutes. Seek medical advice if irritation continues.
Skin contact	Wash thoroughly with water. Remove contaminated clothing. Obtain medical attention if symptoms occur.
Inhalation	Move to fresh air. Seek medical advice if coughing, breathing discomfort or other symptoms persist.
Ingestion	Rinse mouth with water, then drink water if conscious. Seek medical advice if unwell. Do not induce vomiting without medical advice.
Self-protection of first aider	Avoid breathing dust. Wear appropriate personal protective equipment.
Most important symptoms / effects	Dust may cause temporary eye, skin or respiratory irritation; no specific delayed effects established.
Notes to physicians	Treat symptomatically.

05 FIREFIGHTING MEASURES

Suitable extinguishing media	Water spray, carbon dioxide (CO2), dry chemical powder or foam suitable for the surrounding fire.
Unsuitable extinguishing media	No specific unsuitable extinguishing media identified.
Special hazards arising from the substance or mixture	Non-combustible solid. Strong heating may cause decomposition and release irritating or toxic fumes, including ammonia and sulfur/nitrogen oxides.
Explosion data	No explosive properties expected under normal handling. Avoid dispersion of dust.
Advice for firefighters	Use appropriate protective clothing and self-contained breathing apparatus in a fire.

Safe use & protection

ChemiPURE Ammonium Sulfate, ≥99% | SAFETY DATA SHEET / SECTIONS 06-08

06 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Ensure adequate ventilation. Wear laboratory clothing, gloves and eye protection; avoid generation and inhalation of dust.
Environmental precautions	Prevent entry into drains, surface water and soil.
Methods and materials for containment and cleaning up	Collect mechanically without raising dust. Place in suitable closed and labelled containers for disposal.
Reference to other sections	See Sections 8 and 13.

07 HANDLING AND STORAGE

Precautions for safe handling	Avoid dust formation and contact with skin, eyes and clothing. Work with adequate ventilation. Do not eat or drink during use.
Conditions for safe storage	Store at 15–25 °C in a tightly closed container, in a dry, well-ventilated area. Keep away from incompatible chemicals.
Container labeling	Keep in original or correctly labelled closed containers.

08 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

No substance-specific occupational exposure limit is established in the available SDS information.

8.2 Exposure controls

Engineering measures	Use suitable general ventilation; use local extraction for dust-producing work.
Hygiene measures	Follow good laboratory hygiene. Wash hands after handling and before breaks. Avoid eating, drinking or smoking.
Eye / face protection	Use safety glasses with side shields or safety goggles compliant with EN 166.
Hand protection	Use appropriately selected chemical-resistant gloves and inspect before use.
Skin and body protection	Wear laboratory coat, protective clothing and closed footwear.
Respiratory protection	Not normally required with adequate ventilation. If dust is generated, use suitable particulate respiratory protection.

Material properties

ChemiPURE Ammonium Sulfate, ≥99% | SAFETY DATA SHEET / SECTIONS 09-10

09 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	White crystalline powder (solid)
Odor	Odorless
Odor threshold	No data available
pH	Approx. 5–6 (5% aqueous solution, 20 °C)
Melting point / freezing point	Approx. 280 °C (decomposition on strong heating)
Initial boiling point and boiling range	No data available; decomposes on strong heating
Flash point	Not applicable (non-combustible solid)
Evaporation rate	Not applicable (solid)
Flammability (solid, gas)	Not classified as flammable; non-combustible solid
Upper / lower flammability or explosive limits	Not applicable / No data available
Vapor pressure	No data available
Vapor density	Not applicable (solid)
Relative density	Approximately 1.77 g/cm³ (20 °C)
Solubility(ies)	Soluble in water; approximately 754 g/L (20 °C)
Partition coefficient: n-octanol / water	Not applicable to inorganic ionic salt
Auto-ignition temperature	Not applicable
Decomposition temperature	Strong heating can cause decomposition; no product-specific value available
Viscosity	Not applicable (solid)
Explosive properties	Not classified as explosive
Oxidizing properties	Not oxidizing

10 STABILITY AND REACTIVITY

Reactivity	No hazardous reactivity expected under normal laboratory conditions.
Chemical stability	Stable when stored in tightly closed containers at 15–25 °C.
Possibility of hazardous reactions	No hazardous reactions known under normal conditions of use.
Conditions to avoid	Excessive heat, moisture and dust formation.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Heating may produce ammonia and sulfur/nitrogen oxides; no hazardous decomposition under recommended storage conditions.

Health & environment

ChemiPURE Ammonium Sulfate, ≥99% | SAFETY DATA SHEET / SECTIONS 11-13

11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity	Not classified as acutely toxic. Oral LD50 (rat): approx. 2,840 mg/kg for ammonium sulfate.
Skin corrosion / irritation	Not classified; prolonged exposure to dust may cause irritation.
Serious eye damage / eye irritation	Not classified; dust may cause mechanical eye irritation.
Carcinogenicity	Not classified; not listed as a known carcinogen by IARC.
Reproductive toxicity	Not classified based on available data.
STOT - SE	Not classified based on available data.
STOT - RE	Not classified based on available data.
Aspiration hazard	Not applicable to a solid.

11.2 Potential health effects

Ingestion: Large quantities may cause gastrointestinal discomfort.
Inhalation: Dust can irritate the respiratory tract.
Skin: Prolonged contact may cause mild irritation.
Eyes: Dust may cause temporary mechanical irritation.

11.3 Additional information

No additional toxicological data are available for this material.

12 ECOLOGICAL INFORMATION

Ecotoxicity	Not classified as hazardous to the aquatic environment under CLP. Avoid uncontrolled release into water.
Persistence and degradability	Inorganic salt; biodegradability is not applicable. Dissociates into ammonium and sulfate ions in water.
Bioaccumulative potential	Low potential for bioaccumulation.
Mobility in soil	High water solubility indicates mobility in aqueous environments.
Results of PBT and vPvB assessment	PBT and vPvB assessment under REACH Annex XIII is not required for inorganic substances.

13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Product	Dispose of chemical waste through an authorized waste management provider in accordance with applicable local and national regulations. Do not discharge to drains.
Contaminated packaging	Dispose of as laboratory chemical packaging waste; recycle only if thoroughly cleaned and allowed by local rules.

Transport & reference

ChemiPURE Ammonium Sulfate, ≥99% | SAFETY DATA SHEET / SECTIONS 14-16

14 TRANSPORT INFORMATION

Mode	UN no.	UN proper shipping name	Hazard class	Packing group	Environmental hazards
ADR/RID	-	Not regulated	-	-	No
IMDG	-	Not regulated	-	-	No
IATA	-	Not regulated	-	-	No

15 REGULATORY INFORMATION

Safety, health and environmental regulations / legislation	Regulation (EC) No. 1907/2006 (REACH) and Regulation (EC) No. 1272/2008 (CLP). Ammonium sulfate: CAS 7783-20-2, EC 231-984-1. No hazardous CLP labelling required.
Environmental hazards	Not classified as environmentally hazardous under CLP.
Chemical safety assessment	No product-specific chemical safety assessment available.

16 OTHER INFORMATION

Key to abbreviations and acronyms

STOT-SE	Specific Target Organ Toxicity - Single Exposure
STOT-RE	Specific Target Organ Toxicity - Repeated Exposure
PBT	Persistent Bioaccumulative and Toxic
vPvB	very Persistent very Bioaccumulative and toxic
ADR	European Agreement concerning the international carriage of Dangerous goods by Road
CAS	Chemical Abstracts Service
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime code for Dangerous Goods
REACH	Registration, Evaluation, Authorization and restriction of Chemicals
RID	Regulations concerning the International transport of Dangerous goods by rail