

AMMONIUM SULFATE, AR GRADE

SECTION 1: CHEMICAL PRODUCT IDENTIFICATION

Product Name: AMMONIUM SULFATE, AR GRADE
Product Code: CM 23,411
CAS#: 7783-20-2
Synonym: Ammonium sulfate
Chemical Name: Not available
Chemical Formula: $(\text{NH}_4)_2\text{SO}_4$
Formula weight: 132.16

SECTION 2: COMPOSITION AND INFORMATION ON INGREDIENTS

Composition:
Name: Ammonium sulfate
Toxicological Data on Ingredients: Not available.

SECTION 3: HAZARDS IDENTIFICATION

Classification of the substance or mixture:
Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.
Potential Acute Health Effects: Not Available
Potential Chronic Health Effects : Not Available
Carcinogenic Effects: Not available
Mutagenic Effects: Not available.
Teratogenic Effects: Not available.
Developmental Toxicity: Not Available
Specific target organ toxicity - Not available

SECTION 4: FIRST AID MEASURES

Description of first aid measures:
General advice Consult a physician. Show this safety data sheet to the doctor in attendance.
If inhaled If breathed in: Move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact Wash off with soap and plenty of water. Consult a physician.
In case of eye contact: Flush eyes with water as a precaution.
If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Most important symptoms and effects, both acute and delay: Not available
Indication of any immediate medical attention and special treatment needed: Not available

SECTION 5: FIRE AND EXPLOSION DATA

Extinguishing media:
Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Special hazards arising from the substance or mixture: Nitrogen oxides (NOx), Oxides of phosphorus, Not combustible.
Ambient fire may liberate hazardous vapours.
Advice for firefighters: Wear self-contained breathing apparatus for firefighting if necessary.



SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid breathing dust.

Environmental precautions: Do not let product enter drains.

Methods and materials for containment and cleaning up: Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling: Not available

Conditions for safe storage, including any incompatibilities: Tightly closed. Dry.

Storage Class: Not available

Specific end use(s) A part from the uses: No other specific uses are stipulated.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure controls:

Appropriate engineering controls: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment:

Eye/face protection: Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection: Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection: For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure: Do not let product enter drains.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance Form	:White color crystalline powder
Color	:Not available
Odour	:Not available
Odour Threshold	:Not available
pH	:5.0 -6.0
Melting point/freezing point	:Not available
Initial boiling point and boiling range	:Not available
Flash point	:Not available
Evaporation rate	:Not available
Flammability (solid, gas)	:Not available
Upper/lower flammability or explosive limits	:Not available
Vapour pressure	:Not available
Vapour density	:Not available
Relative density	:Not available
Water solubility	:Freely soluble in water
Partition coefficient	:Not available
Auto-ignition temperature	:Not available



SECTION 10: STABILITY AND REACTIVITY DATA

Reactivity: Not available

Chemical stability: The product is chemically stable under standard ambient conditions (room temperature).

Possibility of hazardous reactions: Exothermic reaction with: Chlorates with heat nitrates with Heat.

Risk of explosion with: chlorates with Acids nitrates

Conditions to avoid: Not available

Incompatible materials: Not available

Hazardous decomposition products other decomposition products: In the event of fire

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Acute Toxicity:

LD50 Oral - Rat - male and female - 4.250 mg/kg

LD50 Dermal - Rat - male and female - > 2.000 mg/kg

Skin corrosion/irritation: Not available

Serious eye damage/eye irritation: Not available

Respiratory or skin sensitization: Not available

Carcinogenicity: Not available

SECTION 12: ECOLOGICAL INFORMATION

Toxicity:

Toxicity to fish LC50 - *Oncorhynchus mykiss* (rainbow trout) - 53 mg/l - 96 h

Toxicity to daphnia and other aquatic static test EC50 - *Ceriodaphnia* (water flea) - 121,7 mg/l - 48 h

Invertebrates

Toxicity to algae static test ErC50 - *Chlorella vulgaris* (Fresh water algae) - 2.700 mg/l- 18 Days

Toxicity to bacteria static test EC50 - activated sludge - 1.618 mg/l - 30 min

Persistence and degradability: Not Available

Bio accumulative potential: Not available

Mobility in soil: Not available

Results of PBT and vPvB assessment PBT/vPvB assessment: Not available

Other adverse effects: Not available

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods: Product Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

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Contaminated packaging: Dispose of as unused product.

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SECTION 14: TRANSPORT INFORMATION

UN number:

ADR/RID: IMDG: IATA:

UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

Transport hazard class(es):



ADR/RID:	IMDG:	IATA:
Packaging group:		
ADR/RID:	IMDG:	IATA:
Environmental hazards:		
ADR/RID: No	IMDG Marinepollutant: No	IATA: No

SECTION 15: OTHER REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:
This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

Other regulations: Take note of Dir 94/33/EC on the protection of young people at work.

SECTION 16: OTHER INFORMATION

References: Full text of H AND R-Statements: Not available

Special Considerations: Not available

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