

SAFETY DATA SHEET

according to 2012 OSHA Hazard Communication Standard (29CFR 1910.1200) as amended



Ammonium sulfate

Creation date 01st February 2024

Revision date

Version

1

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product identifier

Chemical name	Ammonium sulfate
CAS number	Ammonium sulfate 7783-20-2
EC (EINECS) number	231-984-1
Registration number	01-2119455044-46-0000

Recommended use

Food supplement. Special applications.

Substance uses advised against

Details of the supplier of the safety data sheet

Supplier

Name or trade name	Macco Organiques, s.r.o.
Address	Zahradní 1938/46c, Bruntál 1, 792 01 Czech Republic
Identification number (CRN)	26819210
VAT Reg No	CZ26819210
Phone	+420 555 530 300
E-mail	macco@macco.cz

Emergency telephone number

CHEMTREC®, Inside the USA: 800-424-9300

CHEMTREC®, Outside the USA: 001-703-527-3887

SECTION 2: Hazards identification

Classification of the substance or mixture

This chemical **is not considered hazardous** by the 2012 OSHA Hazard Communication Standard (29CFR 1910.1200)

Most serious adverse physico-chemical effects

Not specified.

Most serious adverse effects on human health and the environment

Not specified.

Label elements

none required

Hazard not otherwise classified (HNOC)

Non identified

SECTION 3: Composition/information on ingredients

Identification numbers	Substance name	Content in % weight	Classification according to 29CFR 1910.1200	Note
CAS: 7783-20-2 EC: 231-984-1 Registration number: 01-2119455044-46-0000	substance main component Ammonium sulfate	100	not classified as dangerous	

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SECTION 4: First aid measures

Take care of your own safety. In the event of unconsciousness, do not provide food by mouth. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet.

Inhalation

Terminate the exposure immediately; move the affected person to fresh air. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance.

Skin contact

Remove contaminated clothes. And wash it before reuse. Rinse skin with water or shower. Soap, soap solution or shampoo should be used if there is no skin injury.

Eye contact

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. No neutralization should be performed in any case! Provide medical treatment, specialized if possible.

Ingestion

Rinse out the mouth with clean water. DO NOT INDUCE VOMITING! If the affected person vomits, make sure to prevent inhalation of the vomit (as there is a danger of lung damage after inhalation of these liquids in the airways also in infinitesimal amount). In the event of issues, find medical help.

Most important symptoms and effects, both acute and delayed

Inhalation

May cause respiratory irritation.

Skin contact

Irritation, itching, redness.

Eye contact

Not expected.

Ingestion

Nausea, stomach pain, vomiting, diarrhoea.

Notes to Physician

Symptomatic treatment.

SECTION 5: Firefighting measures

Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist. Accommodate extinguishing components to the location of fire.

Unsuitable extinguishing media

Not defined.

Special hazards arising from the substance or mixture

At high temperatures, decomposition occurs to form gaseous ammonia, nitrous oxides and sulfur dioxide.

Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with chemical resistant gloves. Use a self-contained breathing apparatus and full-body protective clothing.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Follow the instructions in the Sections 7 and 8. Use personal protective equipment for work. Do not inhale dust. Provide sufficient ventilation. Avoid dust formation.

Environmental precautions

Prevent contamination of the soil and entering surface or ground water. In the event of substantial pollution, contact respective authorities and wastewater treatment plants.

Methods and material for containment and cleaning up

Place the product mechanically in an appropriate manner. Dispose of the collected material according to the instructions in the section 13. After removal of the product, wash the contaminated site with plenty of water.

Reference to other sections

See the Section 7, 8 and 13.

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SECTION 7: Handling and storage

Precautions for safe handling

Use personal protective equipment as per Section 8. Prevent contact with skin and eyes. Do not eat, drink or smoke when using this product. Wash hands and exposed parts of the body thoroughly after handling. Observe valid legal regulations on safety and health protection.

Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose.

Specific end use(s)

not available

SECTION 8: Exposure controls/personal protection

Control parameters

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Ammonium sulfate DNEL					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Consumers	Dermal	12.8 mg/kg bw/day	Chronic effects systemic		
Consumers	Inhalation	1.667 mg/m ³	Chronic effects systemic		
Consumers	Oral	6.4 mg/kg bw/day	Chronic effects systemic		
Workers	Dermal	42.667 mg/kg bw/day	Chronic effects systemic		
Workers	Inhalation	11.167 mg/m ³	Chronic effects systemic		

Ammonium sulfate PNEC			
Route of exposure	Value	Value determination	Source
Drinking water	312 µg/l		
Water (intermittent release)	530 µg/l		
Marine water	31.2 µg/l		
Microorganisms in sewage treatment	16.18 mg/l		
Freshwater sediment	0.063 mg/kg of dry substance of sediment		
Soil (agricultural)	62.6 mg/kg of dry substance of soil		

Appropriate engineering controls

Good ventilation, showers, eyewash station

Personal protective equipment

Do not eat, drink and smoke during work. Follow the usual measures intended for health protection at work and especially for good ventilation. Provide showers and eye wash possibility. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

Eye/face protection

Protective goggles or face shield (based on the nature of the work performed).

Skin protection

When handling in long-term or repeatedly, use protective gloves. EN ISO 374-1. Other protection: protective workwear. Contaminated skin should be washed thoroughly.

Respiratory protection

Use a mask with anti-dust filter when the exposition limits of the substances are exceeded or at the place with insufficient ventilation. Respirator.

Thermal hazard

Not available.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.

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SECTION 9: Physical and chemical properties

Appearance	
Physical state	solid, crystalline
Colour	white
Odour	without fragrance
pH	5-6 (5% solution at 20 °C)
Melting point/freezing point	cannot be determined - decomposition occurs
Boiling point or initial boiling point and boiling range	cannot be determined - decomposition occurs
Flash point	not applicable
Flammability	non-flammable
Evaporation rate	not applicable
Upper and lower explosion limit	not applicable
Vapour pressure	not determined
vapour density	not applicable
relative density	1.78
Solubility in water	767g / L 25°C
Partition coefficient n-octanol/water (log value)	-5.1
Auto-ignition temperature	not applicable
Decomposition temperature	280 °C
Kinematic viscosity	not applicable
Oxidising properties	It is not oxidising.

SECTION 10: Stability and reactivity

Reactivity

The substance is non-flammable.

Chemical stability

The product is stable under normal conditions.

Possibility of hazardous reactions

Unknown.

Conditions to avoid

The product is stable and no degradation occurs under normal use. Humid air. Heat.

Incompatible materials

Alkaline substances and nitrites.

Hazardous decomposition products

Not developed under normal uses.

SECTION 11: Toxicological information

Acute toxicity

Based on available data the classification criteria are not met.

Ammonium sulfate						
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD ₅₀	OECD 401	4250 mg/kg		Rat	F/M
Dermal	LD ₅₀	OECD 434	>2000 mg/kg		Rat	F/M
Inhalation	LC ₀	OECD 433	3.5 mg/m ³ of air	4 hours	Rat	M

Skin corrosion/irritation

Based on available data the classification criteria are not met.

Ammonium sulfate				
Route of exposure	Result	Method	Exposure time	Species
Dermal	Not irritating	in vivo	20 hours	Rabbit

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Serious eye damage/irritation

Based on available data the classification criteria are not met.

Ammonium sulfate

Route of exposure	Result	Method	Exposure time	Species
Eye	No effect	in vivo		Rabbit

Respiratory or skin sensitisation

No data available for the substance. Based on available data the classification criteria are not met.

Germ cell mutagenicity

No data available for the substance. Based on available data the classification criteria are not met.

Carcinogenicity

No data available for the substance. Based on available data the classification criteria are not met.

IARC - not listed; NTP - not listed; ACGIH - not listed; OSHA - not listed; Mexico - not listed

Reproductive toxicity

No data available for the substance. Based on available data the classification criteria are not met.

Toxicity for specific target organ - single exposure

No data available for the substance. Based on available data the classification criteria are not met.

Toxicity for specific target organ - repeated exposure

No data available for the substance. Based on available data the classification criteria are not met.

Aspiration hazard

No data available for the substance. Based on available data the classification criteria are not met.

Endocrine disruptor information

The substance does not have endocrine disrupting properties.

SECTION 12: Ecological information

Ecotoxicity

Based on available data the classification criteria are not met.

Acute toxicity

Ammonium sulfate

Parameter	Method	Value	Exposure time	Species	Environment	Value determination
LC ₅₀		53 mg/l	96 hours	Fish (Oncorhynchus mykiss)	Fresh water	
EC ₅₀		169 mg/l	48 hours	Daphnia (Daphnia magna)	Fresh water	
EC ₅₀		1.6 g/l	5 days	Algae and other aquatic plants		Static system
EC ₅₀	OECD 209	1618 mg/l	30 minutes	Microorganisms	Activated sludge	

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Chronic toxicity

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Parameter	Value	Exposure time	Species	Environment
EC ₁₀	5.29 mg/l	30 days	Fish (Lepomis macrochirus)	Fresh water
EC ₁₀	3.12 mg/l	70 days	Daphnia (Daphnia magna)	

Persistence and degradability

No data available for the substance.

Bioaccumulative potential

No data available for the substance.

Mobility in soil

No data available for the substance.

Other adverse effects

Not available.

SECTION 13: Disposal considerations

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

SECTION 14: Transport information

UN number or ID number

not subject to transport regulations

UN proper shipping name

not relevant

Transport hazard class(es)

not relevant

Packing group

not relevant

Environmental hazards

not relevant

Special precautions for user

Reference in the Sections 4 to 8.

Maritime transport in bulk according to IMO instruments

not relevant

SECTION 15: Regulatory information

United States of America Inventory

TSCA (Toxic Substances Control Act)

TSCA Inventory notification - Active-Inactive

TSCA - EPA Regulatory Flags

Listed
Active
not listed

U.S. Federal Regulations

SARA Title III (Superfund Amendments and Reauthorization Act)

SARA 302 Extremely Hazardous Substances, 40CFR355, Appendix A:

Not Listed

SARA 311 Hazard Class, 40CFR370:

Not Listed

SARA 312 Threshold Planning Quantity (TPQ), 40CFR370

Not Listed

SARA 313 Reportable Ingredients, 40CFR372

Ammonium Sulfate (CAS # 7783-20-2): "1.0 % de minimis concentration (10% of total aqueous Ammonia is reportable under this listing)" As Aqueous ammonia from water dissociable ammonium salts and other sources
Ammonium Sulfate (CAS # 7783-20-2): 1.0 % de minimis concentration (10% of total aqueous Ammonia is reportable under this listing).

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

CERCLA (Comprehensive Environmental Response Compensation and Liability Act):

There is no listed reportable quantity for this product.

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CWA (Clean Water Act), section 307/311:

CAA (Clean air Act), section 111/112:

California Proposition 65

Massachusetts Right-to-Know Regulations

Pennsylvania Right-to-Know Hazardous Substances

New Jersey Worker and Community Right-to-Know Components

Not Listed

Not regulated

Not Listed

Present

Present, Environmental hazard

Not Listed

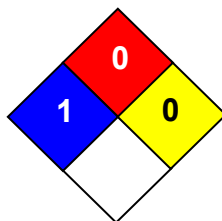
Chemical safety assessment

Not available.

SECTION 16: Other information

NFPA (National Fire Protection Association)

Health	1
Flammability	0
Reactivity	0
Special Hazard	None



4: Extreme, 3: High, 2: Moderate, 1: Slight, 0: Insignificant; OX: Oxidiser, W: Water Reactives, SA: Simple Asphyxiants

Competent person responsible for the safety data sheet

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Creation Date

01-Feb-2024

Revision Date

Revision Summary

Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.

End of SDS

