

Ammoniumnitrat technisch

Revision date: 27.05.2022

Product code: 19495

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

1.1. Product identifier

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REACH Registration Number:	01-2119490981-27-XXXX
CAS No:	6484-52-2
EC No:	229-347-8

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture

Laboratory chemicals

Industrial uses: Uses of substances as such or in preparations at industrial sites Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Uses advised against

Do not use for private purposes (household).

1.3. Details of the supplier of the safety data sheet

Company name:	Fa. Bernd Kraft GmbH	
Street:	Stempelstraße 6	
Place:	D-47167 Duisburg	
Telephone:	0203/5194-0	Telefax: 0203/5194-290
e-mail:	info@berndkraft.de	
Contact person:	Abteilung Produktsicherheit	Telephone: 0203/5194-107/117
e-mail:	produktsicherheit@berndkraft.de	
Internet:	www.berndkraft.de	
Responsible Department:	Abteilung Produktsicherheit	
1.4. Emergency telephone	For Hazardous Materials [or Dangerous Goods] Incidents Spill, Leak, Fire,	
number:	Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada	
	1-800-424-9300 Outside USA and Canada: +1 703-741-5970 (collect calls	
	accepted)	

Further Information

No data available

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Ox. Sol. 3; H272 Eye Irrit. 2; H319

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation	(FC)	No 1272/2008
Regulation		

Signal word:

Pictograms:



Warning

Hazard statements

H272

May intensify fire; oxidiser.



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Precautionary statements			
P210			
P221	Take any precaution to avoid mixing with combustibles.		
P220	Keep away from clothing and other combustible materials.		
P280			
P280			
P501	Dispose of contents/container in accordance with local/regional/national/international		
	regulations.		
2.3. Other hazards			
No data available			
SECTION 3: Composition/information on ingredients			

3.1. Substances

Sum formula:	NH4NO3
Molecular weight:	80,04 g/mol

Hazardous components

CAS No	Chemical name		Quantity	
	EC No Index No REACH No			
	Classification (Regulation (EC) No 1272/2008)			
6484-52-2	ammonium nitrate			100 %
	229-347-8 01-2119490981-27-XXXX			
	Ox. Sol. 3, Eye Irrit. 2; H272 H319			

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. I	imits, M-factors and ATE	
6484-52-2	229-347-8	ammonium nitrate	100 %
	oral: LD50 = 29	950 mg/kg	

Further Information

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

No data available

After inhalation

Provide fresh air. Call a doctor if you feel unwell.

After contact with skin

Wash immediately with: Water

Take off immediately all contaminated clothing and wash it before reuse.

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Protect uninjured eye. Remove contact lenses, if present and easy to do. Continue rinsing.



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After ingestion

Rinse mouth immediately and drink plenty of water. Call a physician immediately.

4.2. Most important symptoms and effects, both acute and delayed

Irritant Vomiting Gastrointestinal complaints Circulatory collapse Blood pressure drop Spasms Narcotic effects Respiratory complaints

4.3. Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media

Water Foam

5.2. Special hazards arising from the substance or mixture

Non-combustible solids
Oxidising solids
oxidising
Hazardous combustion products
In case of fire may be liberated:
Ammonia (NH3)
Nitrogen oxides (NOx)
Heating may cause an explosion.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. In case of fire and/or explosion do not breathe fumes. Avoid contact with skin, eyes and clothes.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Move undamaged containers from immediate hazard area if it can be done safely. Use water spray jet to protect personnel and to cool endangered containers.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Provide adequate ventilation. Use personal protection equipment. Avoid contact with skin, eyes and clothes. Remove persons to safety. Emergency procedures Do not breathe dust/fume/gas/mist/vapours/spray.



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For emergency responders

Precautionary statements For emergency responders : Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For containment

Cover drains.

Prevent spread over a wide area (e.g. by containment or oil barriers). Collect in closed and suitable containers for disposal.

Take up carefully when dry. Take up dust-free and set down dust-free.

For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

Other information

Provide adequate ventilation. Do not breathe dust/fume/gas/mist/vapours/spray. Wear breathing apparatus if exposed to vapours/dusts/aerosols.

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Read label before use. Handle and open container with care. When using do not eat, drink, smoke, sniff. Keep container tightly closed. Use personal protection equipment. Do not breathe dust. Provide adequate ventilation.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking.

Keep away from combustible material.

Advice on general occupational hygiene

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink.

Further information on handling

Take off immediately all contaminated clothing and wash it before reuse.

Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. If handled uncovered, arrangements with local exhaust ventilation have to be used.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep in a cool place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. storage temperature +5°C - +30°C

Hints on joint storage

Keep away from combustible material.



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Further information on storage conditions

Keep cool. Protect from sunlight. Protect against: Light Heat Humidity

7.3. Specific end use(s)

Laboratory chemicals

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
6484-52-2	ammonium nitrate			
Worker DNEL	., long-term	inhalation	systemic	36 mg/m ³
Worker DNEL	., long-term	dermal	systemic	5,12 mg/kg bw/day
Consumer DN	IEL, long-term	inhalation	systemic	8,9 mg/m³
Consumer D	IEL, long-term	dermal	systemic	2,56 mg/kg bw/day
Consumer D	IEL, long-term	oral	systemic	2,56 mg/kg bw/day

PNEC values

CAS No	Substance	
Environmental	compartment	Value
6484-52-2 ammonium nitrate		
Micro-organisms in sewage treatment plants (STP) 18 mg/l		

8.2. Exposure controls

Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

If handled uncovered, arrangements with local exhaust ventilation have to be used.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear eye/face protection.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: vertrieb@kcl.de With specification (test according to EN374):

By long-term hand contact



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Trade name/designation: KCL 741 Dermatril® L Suitable material: NBR (Nitrile rubber) 0,11 mm Wearing time with permanent contact: > 480 min

By short-term hand contact Trade name/designation: KCL 741 Dermatril® L Suitable material: NBR (Nitrile rubber) 0,11 mm Wearing time with occasional contact (splashes): > 480 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet<(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Skin protection

Take off immediately all contaminated clothing and wash it before reuse. Protective clothing Wash hands and face before breaks and after work and take a shower if necessary.

Draw up and observe skin protection programme.

Respiratory protection

Wear breathing apparatus if exposed to vapours/dusts/aerosols. Filtering device with filter or ventilator filtering device of type: P2

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	solid	
Colour:	colourless	
Odour:	odourless	
Odour threshold:	No data available	
Changes in the physical state		
Melting point/freezing point:		169 °C
Boiling point or initial boiling point and		210 °C
boiling range:		
Sublimation point:		No data available
Softening point:		No data available
Pour point:		No data available
:		No data available
Flash point:		Х
Flammability		
Solid/liquid:		not determined
Gas:		not applicable
Lower explosion limits:		not determined
Upper explosion limits:		not determined
Auto-ignition temperature:		No data available
Self-ignition temperature		
Solid:		not determined



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Gas:	not applicable		
Decomposition temperature:	>180 °C		
pH-Value (at 20 °C):	4,5-7 (100 g/l)		
Viscosity / dynamic:	No data available		
Viscosity / kinematic:	No data available		
Flow time:	No data available		
Water solubility: (at 20 °C)	1920 g/L		
Solubility in other solvents not determined			
Partition coefficient n-octanol/water:	not determined		
Vapour pressure:	No data available		
Vapour pressure:	No data available		
Density:	1,72000 g/cm³		
Bulk density:	600-700 kg/m³		
Relative vapour density:	not determined		
9.2. Other information			
Information with regard to physical hazard classe	S		
Sustaining combustion:	No data available		
Oxidizing properties			
The product is: oxidising, Oxidising.			
Other safety characteristics			
Solvent separation test:	No data available		
Solvent content:	0		
Solid content:	100,00 %		
Evaporation rate:	not determined		
Further Information			
No data available			

SECTION 10: Stability and reactivity

10.1. Reactivity

oxidising, Oxidising.

10.2. Chemical stability

Protect against: Light Heat

sensitive to impact sensitive to friction Moisture-sensitive. Keep away from heat. Protect from moisture. Handle and store contents under inert gas. Protect from moisture.

10.3. Possibility of hazardous reactions

Ammonia



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Hydrocarbons Metal Water Nitric acid Alkali metals Alkaline earth metal Heavy metals Metal powder Acid Base Combustible substance Thermal decomposition Exothermic reaction with: Combustible substance

10.4. Conditions to avoid

Risk of explosion by shock, friction, fire or other sources of ignition. Remove all sources of ignition. Keep away from heat.

10.5. Incompatible materials

Keep away from combustible material. Metal Steel

10.6. Hazardous decomposition products

Formation of: Oxygen.

SECTION 5: Firefighting measures

Further information

No data available

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicocinetics, metabolism and distribution

No data available

Acute toxicity

Based on available data, the classification criteria are not met.

CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
6484-52-2	ammonium nitrate					
	oral	LD50 2 mg/kg	2950	Rat	Study report (1981)	OECD Guideline 401

Irritation and corrosivity

Based on available data, the classification criteria are not met.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.



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STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Information on likely routes of exposure

No data available

Specific effects in experiment on an animal

No data available

Additional information on tests No data available

Practical experience

No data available

11.2. Information on other hazards

Endocrine disrupting properties

No data available

Other information

Irritating to respiratory system.

Further information

Irritant Vomiting Gastrointestinal complaints Circulatory collapse Blood pressure drop Spasms Narcotic effects Respiratory complaints

SECTION 12: Ecological information

12.1. Toxicity

No data available

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII. No data available

12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

No data available

Further information

Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods



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Disposal recommendations

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Send to a physico-chemical treatment facility under observation of official regulations. Handle contaminated packages in the same way as the substance itself.

Contaminated packaging

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

SECTION 14: Transport information

Land transport (ADR/RID)

Land transport (ADR/RID)			
14.1. UN number or ID number:	UN 1942		
14.2. UN proper shipping name:	Ammonium nitrate		
14.3. Transport hazard class(es):	5.1		
14.4. Packing group:	III		
Hazard label:	5.1		
Classification code:	02		
Special Provisions:	306 611		
Limited quantity:	5 kg		
Excepted quantity:	E1		
Transport category:	3		
Hazard No:	50		
Tunnel restriction code:	E		
Inland waterways transport (ADN)			
14.1. UN number or ID number:	UN 1942		
14.2. UN proper shipping name:	Ammonium nitrate		
14.3. Transport hazard class(es):	5.1		
14.4. Packing group:	111		
Hazard label:	5.1		
Classification code:	02		
Special Provisions:	306 611		
Limited quantity:	5 kg		
Excepted quantity:	E1		
Marine transport (IMDG)			
<u>14.1. UN number or ID number:</u>	UN 1942		
14.2. UN proper shipping name:	Ammonium nitrate		
14.3. Transport hazard class(es):	5.1		
14.4. Packing group:			
Hazard label:	5.1		
Special Provisions:	900, 952, 967		
Limited quantity:	5 kg		
Excepted quantity:	E1		
EmS:	F-H, S-Q		
Air transport (ICAO-TI/IATA-DGR)	,		
<u>14.1. UN number or ID number:</u>	UN 1942		
14.2. UN proper shipping name:	Ammonium nitrate		
14.3. Transport hazard class(es):	5.1		
14.4. Packing group:	UI		
	5.1		
Hazard label:	A64 A803		
Special Provisions:	10 kg		
Limited quantity Passenger:	Y546		
Passenger LQ:	1 J4U		



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Excepted quantity:	E1					
IATA-packing instructions - Passenger:		559				
IATA-max. quantity - Passenger:		25 kg				
IATA-packing instructions - Cargo:		563				
IATA-max. quantity - Cargo:		100 kg				
14.5. Environmental hazards						
ENVIRONMENTALLY HAZARDOUS:	No					
14.6. Special precautions for user						
Warning: Oxidising substances.						
14.7. Maritime transport in bulk according to	o IMO instruments					
not applicable						
SECTION 15: Regulatory information						
15.1. Safety, health and environmental regu	lations/legislation spe	cific for the substance or mixture				
EU regulatory information						
Restrictions on use (REACH, annex XVII): Entry 58						
National regulatory information						
Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).					
Water hazard class (D):	1 - slightly hazardous to water					
SECTION 16: Other information						
Abbreviations and acronyms						

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service LC50: Lethal concentration, 50% LD50: Lethal dose, 50%

Relevant H and EUH statements (number and full text)

H272	May intensify fire; oxidiser.
H319	Causes serious eye irritation.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.