according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



date of compilation: 2015-11-04

Revision: 2024-03-03

Ammonium nitrate ≥98 %, extra pure

article number: **X988** Version: **2.0 en** Replaces version of: 2021-01-29 Version: (1)

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

1.1 Product identifier

Identification of the substance	Ammonium nitrate ≥98 %, extra pure	
Article number	X988	
Registration number (REACH)	01-2119490981-27-xxxx	
EC number	229-347-8	
CAS number	6484-52-2	

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

Relevant identified uses:

Uses advised against:

Do not use for private purposes (household). Food, drink and animal feedingstuffs.

1.3 Details of the supplier of the safety data sheet

Carl Roth GmbH + Co. KG Schoemperlenstr. 3-5 D-76185 Karlsruhe Germany

Telephone:+49 (0) 721 - 56 06 0 **Telefax:** +49 (0) 721 - 56 06 149 **e-mail:** sicherheit@carlroth.de **Website:** www.carlroth.de

Competent person responsible for the safety data Department Health, Safety and Environment sheet:

e-mail (competent person):

sicherheit@carlroth.de

Laboratory chemical

Laboratory and analytical use

1.4 Emergency telephone number

Name	Street	Postal code/city	Telephone	Website
National Poisons Information Centre Beaumont Hospital	Beaumont Road	Dublin 9	+353 1 809 2166	https:// www.poisons.ie/

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

Section	ction Hazard class		Hazard class and category	Hazard statement
2.14	.14 Oxidising solid		Ox. Sol. 3	H272
3.3 Serious eye damage/eye irritation		2	Eye Irrit. 2	H319

For full text of abbreviations: see SECTION 16

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



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2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

Signal word Warning

Pictograms

GHS03, GHS07



Hazard statements

	May intensify fire; oxidiser
H319	Causes serious eye irritation

Precautionary statements

Precautionary statements - prevention

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition
	sources. No smoking
P220	Keep/store away from combustible materials

P280 Wear protective gloves/eye protection

Precautionary statements - response

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 P371+P380+P375 In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion

Labelling of packages where the contents do not exceed 125 ml

Signal word: Warning

Symbol(s)



2.3 Other hazards

Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\ge 0,1\%$.

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



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3.1

SECTION 3: Composition/information on ingredients

Substances	
Name of substance	Ammonium nitrate
Molecular formula	NH₄NO ₃
Molar mass	80,04 ^g / _{mol}
REACH Reg. No	01-2119490981-27-xxxx
CAS No	6484-52-2
EC No	229-347-8

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Take off contaminated clothing.

Following inhalation

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

Following skin contact

Rinse skin with water/shower. In all cases of doubt, or when symptoms persist, seek medical advice.

Following eye contact

Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. In case of eye irritation consult an ophthalmologist.

Following ingestion

Rinse mouth. Call a doctor if you feel unwell.

- **4.2 Most important symptoms and effects, both acute and delayed** Irritation
- **4.3 Indication of any immediate medical attention and special treatment needed** none

SECTION 5: Firefighting measures

5.1 Extinguishing media



Suitable extinguishing media

co-ordinate firefighting measures to the fire surroundings! water, foam, alcohol resistant foam, dry extinguishing powder, ABC-powder

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



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Unsuitable extinguishing media

water jet

5.2 Special hazards arising from the substance or mixture

Oxidising property. Non-combustible.

Hazardous combustion products

Ammonia (NH3), Nitrogen oxides (NOx)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures



For non-emergency personnel

Avoid contact with skin, eyes and clothes. Do not breathe dust.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains. Take up mechanically.

Advice on how to clean up a spill

Take up mechanically. Control of dust.

Other information relating to spills and releases

Place in appropriate containers for disposal.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid dust formation.

Measures to prevent fire as well as aerosol and dust generation

Keep away from combustible material.

Advice on general occupational hygiene

Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Store in a dry place. Keep container tightly closed. Hygroscopic solid.

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU

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Incompatible substances or mixtures

Observe hints for combined storage. Keep/store away from clothing/combustible materials. Take any precaution to avoid mixing with combustibles.

Protect against external exposure, such as

humidity, UV-radiation/sunlight, direct light irradiation

Consideration of other advice:

Specific designs for storage rooms or vessels

Recommended storage temperature: 15 - 25 °C

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

This information is not available.

Human health values

Relevant DNELs and other threshold levels

Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
DNEL	36 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
DNEL	5,12 mg/kg bw/ day	human, dermal	worker (industry)	chronic - systemic effects

Environmental values

Relevant PNECs and other threshold levels				
End- point	Threshold level	Organism	Environmental com- partment	Exposure time
PNEC	18 ^{mg} / _l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)

8.2 Exposure controls

Individual protection measures (personal protective equipment)

Eye/face protection



Use safety goggle with side protection.

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU

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Skin protection



hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. 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. The times are approximate values from measurements at 22 ° C and permanent contact. Increased temperatures due to heated substances, body heat etc. and a reduction of the effective layer thickness by stretching can lead to a consider-able reduction of the breakthrough time. If in doubt, contact manufacturer. At an approx. 1.5 times larger / smaller layer thickness, the respective breakthrough time is doubled / halved. The data apply only to the pure substance. When transferred to substance mixtures, they may only be considered as a guide.

• type of material

NBR (Nitrile rubber)

• material thickness

>0,11 mm

• breakthrough times of the glove material

>480 minutes (permeation: level 6)

• other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

Respiratory protection



Respiratory protection necessary at: Dust formation. Particulate filter device (EN 143). P1 (filters at least 80 % of airborne particles, colour code: White).

Environmental exposure controls

Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	solid
Form	crystalline
Colour	colourless
Odour	odourless
Melting point/freezing point	169 °C at 1.013 hPa
Boiling point or initial boiling point and boiling range	not determined
Flammability	non-combustible
Lower and upper explosion limit	not determined



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Flash point	not applicable
Auto-ignition temperature	not determined
Decomposition temperature	>180 °C
pH (value)	4,5 – 7 (in aqueous solution: 100 ^g / _l , 20 °C)
Kinematic viscosity	not relevant
Solubility(ies)	
Water solubility	1.920 ^g / _l at 20 °C
Partition coefficient	
Partition coefficient n-octanol/water (log value):	not relevant (inorganic)
Vapour pressure	not determined
Density and/or relative density	
Density	1,72 ^g / _{cm³} at 20 °C
Relative vapour density	Information on this property is not available.
Bulk density	600 – 700 ^{kg} / _{m³}
Particle characteristics	No data available.
Other safety parameters	
Oxidising properties	oxidiser
	Oxidisei
Other information	
Information with regard to physical hazard classes:	There is no additional information.
Other safety characteristics:	There is no additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity

9.2

It's a reactive substance. Oxidising property.

10.2 Chemical stability

May cause decomposition by long-term light influence. Hygroscopic solid.

10.3 Possibility of hazardous reactions

Risk of ignition: Nitrites, Metals, Phosphorus, Acetic acid, **Exothermic reaction with:** Bases, Acids, Oxidisers, **Violent reaction with:** Alkali metals, Ammonia (NH3), Ammonium compounds, Combustible materials, Carbide, Chlorates, Ester, Hydrocarbons, Metal powder, Nitro compound, Organic substances, Perchlorates, Reducing agents, Sulphur, Permanganates, for example potassium permanganate, => Explosive properties

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



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10.4 Conditions to avoid

Keep away from heat. Decompositon takes place from temperatures above: >180 °C.

10.5 Incompatible materials

metals

10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

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

Classification according to GHS (1272/2008/EC, CLP)

Acute toxicity

Shall not be classified as acutely toxic.

Acute toxicity

Exposure route	Endpoint	Value	Species	Method	Source
oral	LD50	2.950 ^{mg} / _{kg}	rat		ECHA
dermal	LD50	>5.000 ^{mg} / _{kg}	rat		ECHA

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

Symptoms related to the physical, chemical and toxicological characteristics

If swallowed

diarrhoea, vomiting, nausea

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



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• If in eyes

Causes serious eye irritation

If inhaled

Data are not available.

• If on skin

Frequently or prolonged contact with skin may cause dermal irritation

Other information

Other adverse effects: Cardiac arrhythmias, Headache, Blood pressure drop, Spasms, Methaemoglobinaemia, Cyanosis (blue coloured blood)

11.2 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\ge 0,1\%$.

11.3 Information on other hazards

There is no additional information.

SECTION 12: Ecological information

12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

Aquatic toxicity (acute)						
Endpoint	Value	Species	Source	Exposure time		
LC50	447 ^{mg} / _l	fish	ECHA	48 h		
EC50	490 ^{mg} /l	aquatic invertebrates	ECHA	48 h		

Aquatic toxicity (chronic)

Endpoint	Value	Species	Source	Exposure time
EC50	>1.000 ^{mg} / _l	microorganisms	ECHA	180 min

12.2 Persistence and degradability

Biodegradation

The substance is readily biodegradable.

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\ge 0,1\%$.

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



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12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods



This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

Sewage disposal-relevant information

Do not empty into drains.

Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Handle contaminated packages in the same way as the substance itself. Completely emptied packages can be recycled.

13.2 Relevant provisions relating to waste

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

Properties of waste which render it hazardous

- HP 2 oxidising
- HP 4 irritant skin irritation and eye damage

13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions. Non-contaminated packages may be recycled.

SECTION 14: Transport information

14.1 UN number or ID number

	IMDG Codo	51
	IMDG-Code	5.1
	ADRRID	5.1
14.3	Transport hazard class(es)	
	ICAO-TI	Ammonium nitrate
	IMDG-Code	AMMONIUM NITRATE
	ADRRID	AMMONIUM NITRATE
14.2	UN proper shipping name	
	ICAO-TI	UN 1942
	IMDG-Code	UN 1942
	ADRRID	UN 1942

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



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	IMDG-Code	III				
	ICAO-TI	III				
14.5	Environmental hazards	non-environmentally hazardous acc. to the dan- gerous goods regulations				
14.6	Special precautions for user					
	Provisions for dangerous goods (ADR) should	l be complied within the premises.				
14.7	Maritime transport in bulk according to IMO instruments					
	The cargo is not intended to be carried in bull	k.				
14.8	Information for each of the UN Model Regu	ulations				
	Agreement concerning the International C information	arriage of Dangerous Goods by Road (ADR)Additional				
	Proper shipping name	AMMONIUM NITRATE				
	Particulars in the transport document	UN1942, AMMONIUM NITRATE, 5.1, III, (E)				
	Classification code	02				
	Danger label(s)	5.1				
	51					
	Special provisions (SP)	306, 611				
	Excepted quantities (EQ)	E1				
	Limited quantities (LQ)	5 kg				
	Transport category (TC)	3				
	Tunnel restriction code (TRC)	E				
	Hazard identification No	50				
	Regulations concerning the International (information	Carriage of Dangerous Goods by Rail (RID)Additional				
	Classification code	02				
	Danger label(s)	5.1				
	Special provisions (SP)	306, 611				
	Excepted quantities (EQ)	E1				
	Limited quantities (LQ)	5 kg				
	Transport category (TC)	3				
	Hazard identification No	50				

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International Maritime Dangerous Goods Coo	le (IMDG) - Additional information
Proper shipping name	AMMONIUM NITRATE
Particulars in the shipper's declaration	UN1942, AMMONIUM NITRATE, 5.1, III
Marine pollutant	-
Danger label(s)	5.1
Special provisions (SP)	900, 952, 967
Excepted quantities (EQ)	E1
Limited quantities (LQ)	5 kg
EmS	F-H, S-Q
Stowage category	C
Segregation group	2 - Ammonium compounds
International Civil Aviation Organization (ICA	O-IATA/DGR) - Additional information
Proper shipping name	Ammonium nitrate
Particulars in the shipper's declaration	UN1942, Ammonium nitrate, 5.1, III
Danger label(s)	5.1
Special provisions (SP)	A64
Excepted quantities (EQ)	E1
Limited quantities (LQ)	10 kg

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant provisions of the European Union (EU)

Restrictions according to REACH, Annex XVII

angerous substances with restrictions (REACH, Annex XVII)							
Name of substance	Name acc. to inventory	CAS No	Restriction	No			
Ammonium nitrate	ammonium nitrate (AN)	6484-52-2	R58	58			
Ammonium nitrate	inorganic ammonium salts		R65	65			
Ammonium nitrate	substances in tattoo inks and perman- ent make-up		R75	75			

Legend R58

1. Shall not be placed on the market for the first time after 27 June 2010 as a substance, or in mixtures that contain more than 28 % by weight of nitrogen in relation to ammonium nitrate, for use as a solid fertiliser, straight or compound, unless the fertiliser complies with the technical provisions for ammonium nitrate fertilisers of high nitrogen content set out in Annex III to Regulation (EC) No 2003/2003 of the European Parliament and of the Council (10).

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



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Legend R65

1. Shall not be placed on the market, or used, in cellulose insulation mixtures or cellulose insulation articles after 14 July 2018 unless the emission of ammonia from those mixtures or articles results in a concentration of less than 3 ppm by volume (2,12 mg/m3) under the test conditions specified in paragraph 4.

A supplier of a cellulose insulation mixture containing inorganic ammonium salts shall inform the recipient or con-sumer of the maximum permissible loading rate of the cellulose insulation mixture, expressed in thickness and dens-

ity. A downstream user of a cellulose insulation mixture containing inorganic ammonium salts shall ensure that the max-imum permissible loading rate communicated by the supplier is not exceeded. 2. By way of derogation, paragraph 1 shall not apply to placing on the market of cellulose insulation mixtures inten-ded to be used solely for the production of cellulose insulation articles, or to the use of those mixtures in the produc-tion of cellulose insulation articles.

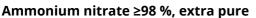
tion of cellulose insulation articles. 3. In the case of a Member State that, on 14 July 2016, has national provisional measures in place that have been au-thorised by the Commission pursuant to Article 129(2)(a), the provisions of paragraphs 1 and 2 shall apply from that date.

Compliance with the emission limit specified in the first subparagraph of paragraph 1 shall be demonstrated in accordance with Technical Specification CEN/TS 16516, adapted as follows:
 (a) the duration of the test shall be at least 14 days instead of 28 days;

- (b) the ammonia gas emission shall be measured at least once per day throughout the test;
- (c) the emission limit shall not be reached or exceeded in any measurement taken during the test;
 (d) the relative humidity shall be 90 % instead of 50 %;
- (e) an appropriate method to measure the ammonia gas emission shall be used;

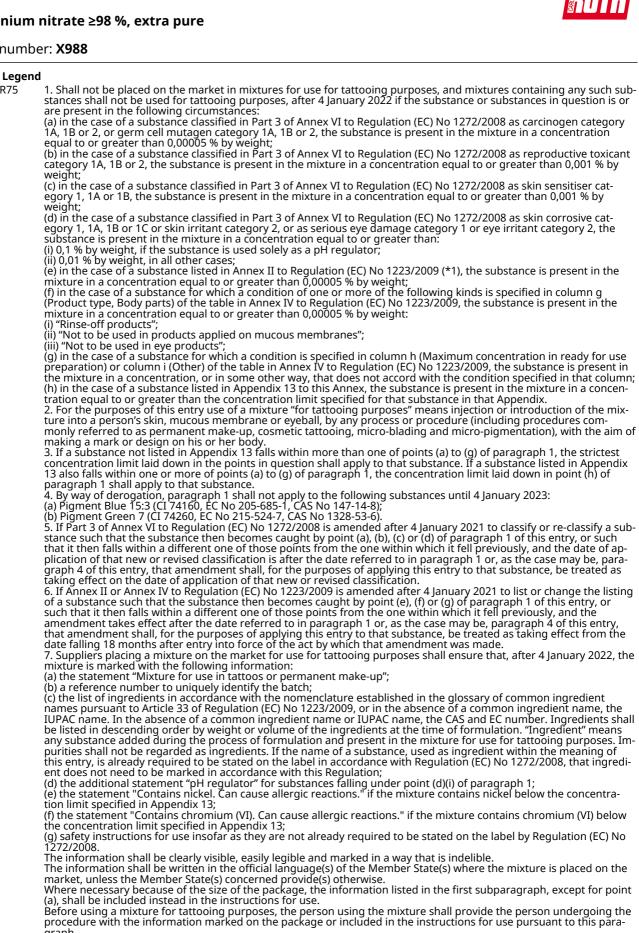
(f) the loading rate, expressed in thickness and density, shall be recorded during the sampling of the cellulose insulation mixtures or articles to be tested.

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU





R75



graph. 8. Mixtures that do not contain the statement "Mixture for use in tattoos or permanent make-up" shall not be used for tattooing purposes.



according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



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Legend

9. This entry does not apply to substances that are gases at temperature of 20 °C and pressure of 101,3 kPa, or gener-ate a vapour pressure of more than 300 kPa at temperature of 50 °C, with the exception of formaldehyde (CAS No 50-00-0, EC No 200-001-8).

10. This entry does not apply to the placing on the market of a mixture for use for tattooing purposes, or to the use of a mixture for tattooing purposes, when placed on the market exclusively as a medical device or an accessory to a medical device, within the meaning of Regulation (EU) 2017/745, or when used exclusively as a medical device or an accessory to a medical device, within the same meaning. Where the placing on the market or use may not be exclusively as a medical device or an accessory to a medical device, the requirements of Regulation (EU) 2017/745 and of this Device the requirements of Regulation (EU) 2017/745 and of this Regulation shall apply cumulatively.

List of substances subject to authorisation (REACH, Annex XIV)/SVHC - candidate list

Not listed.

Seveso Directive

2012/	2012/18/EU (Seveso III)					
Νο	Dangerous substance/hazard categories		(tonnes) for the ap- and upper-tier re- ments	Notes		
03	ammonium nitrate (technical grade)	350	2.500	03)		

Notation

03)

This applies to ammonium nitrate and mixtures of ammonium nitrate in which the nitrogen content as a result of the ammonium nitrate is

- between 24,5 % and 28 % by weight, and which contain not more than 0,4 % combustible substances,

- more than 28 % by weight, and which contain not more than 0,2 % combustible substances. It also applies to aqueous ammonium nitrate solutions in which the concentration of ammonium nitrate is more than 80 % by weight

Deco-Paint Directive

VOC content	0 %
VOC content	0 ^g / _l

Industrial Emissions Directive (IED)

VOC content	0 %
VOC content	0 ^g / _l

Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

not listed

Regulation concerning the establishment of a European Pollutant Release and Transfer **Register (PRTR)**

not listed

Water Framework Directive (WFD)

List of pollutants (WFD)				
Name of substance	Name acc. to inventory	CAS No	Listed in	Remarks
Ammonium nitrate	Substances which contribute to eutrophication (in particular, ni- trates and phosphates)		a)	

Legend

a)

Indicative list of the main pollutants

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



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Regulation on the marketi	Regulation on the marketing and use of explosives precursors							
Explosives precursors which are subject to restrictions								
Name of substance	CAS No	Wt%	Type of registration	Re- marks	Limit value	Upper limit value for the pur- pose of licens- ing un- der Art- icle 5(3)		
Ammonium nitrate	6484-52-2	100	Annex I	>16 %	16 % w/w of nitro- gen in re- lation to ammoni- um ni- trate	No licens- ing per- mitted		

Legend

>16 % In concentration of 16 % by weight of nitrogen in relation to ammonium nitrate or higher

Annex I Substances which shall not be made available to members of the general public on their own, or in mixtures or substances including them, except if the concentration is equal to or lower than the limit values set out below

Additional statements

If the product is passed on to third parties, in accordance with Article 7 "Notification of the supply chain" of Regulation EU 2019/1148, the information obligation is subject to the entire supply chain and all other provisions mentioned in Article 7 on restricted and regulated raw materials.

Regulation on drug precursors

not listed

Regulation on substances that deplete the ozone layer (ODS)

not listed

Regulation concerning the export and import of hazardous chemicals (PIC)

not listed

Regulation on persistent organic pollutants (POP)

not listed

Other information

Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

National inventories

Country	Inventory	Status
AU	AIIC	substance is listed
CA	DSL	substance is listed
CN	IECSC	substance is listed
EU	ECSI	substance is listed
EU	REACH Reg.	substance is listed
JP	CSCL-ENCS	substance is listed
KR	KECI	substance is listed

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Country	Inventory	Status
MX	INSQ	substance is listed
NZ	NZIoC	substance is listed
PH	PICCS	substance is listed
TR	CICR	substance is listed
TW	TCSI	substance is listed
US	TSCA	substance is listed (ACTIVE)
VN	NCI	substance is listed

Legend

AIIC	Australian Inventory of Industrial Chemicals
CICR	Chemical Inventory and Control Regulation
CSCL-ENCS	List of Existing and New Chemical Substances (CSCL-ENCS)
DSL	Domestic Substances List (DSL)
ECSI	EC Substance Inventory (EINECS, ELINCS, NLP)
IECSC	Inventory of Existing Chemical Substances Produced or Imported in China
INSQ	National Inventory of Chemical Substances
KECI	Korea Existing Chemicals Inventory
NCI	National Chemical Inventory
NZIoC	New Zealand Inventory of Chemicals
PICCS	Philippine Inventory of Chemicals and Chemical Substances (PICCS)
REACH Reg.	REACH registered substances
TCSI	Taiwan Chemical Substance Inventory
TSCA	Toxic Substance Control Act

15.2 Chemical safety assessment

According to REACH, Article 14 (1) a chemical safety assessment has been carried out for this substance or components of this mixture when the substance has been registered in quantities of 10 tonnes or more per year per registrant.

SECTION 16: Other information

Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
1.1		EC number: 229-347-8	yes
1.1	EC number: 229-347-8	CAS number: 6484-52-2	yes
2.1		Classification according to Regulation (EC) No 1272/2008 (CLP): change in the listing (table)	yes
2.1	Remarks: For full text of Hazard- and EU Hazard-state- ments: see SECTION 16.		yes
2.2		Pictograms: change in the listing (table)	yes
2.2		Precautionary statements - prevention: change in the listing (table)	yes
2.2		Labelling of packages where the contents do not exceed 125 ml: change in the listing (table)	yes
2.3	Other hazards: There is no additional information.	Other hazards	yes

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU

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Ammonium nitrate ≥98 %, extra pure

Section	Former entry (text/value)	Actual entry (text/value)	Safety relev ant
2.3		Results of PBT and vPvB assessment: According to the results of its assessment, this substance is not a PBT or a vPvB.	yes
2.3		Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.	yes
11.1		Acute toxicity: change in the listing (table)	yes
14.1	UN number: 1942	UN number or ID number	yes
14.1		ADRRID: UN 1942	yes
14.1		IMDG-Code: UN 1942	yes
14.1		ICAO-TI: UN 1942	yes
14.2	UN proper shipping name: AMMONIUM NITRATE	UN proper shipping name	yes
14.2	Hazardous ingredients: Ammonium nitrate		yes
14.2		ADRRID: AMMONIUM NITRATE	yes
14.2		IMDG-Code: AMMONIUM NITRATE	yes
14.2		ICAO-TI: Ammonium nitrate	yes
14.3	Class: 5.1 (oxidizing substances)		yes
14.3		ADRRID: 5.1	yes
14.3		IMDG-Code: 5.1	yes
14.3		ICAO-TI: 5.1	yes
14.4	Packing group: III (substance presenting low danger)	Packing group	yes
14.4		ADRRID: III	yes
14.4		IMDG-Code: III	yes
14.4		ICAO-TI: III	yes
14.5	Environmental hazards: none (non-environmentally hazardous acc. to the dangerous goods regulations)	Environmental hazards: non-environmentally hazardous acc. to the dan- gerous goods regulations	yes
14.8	UN number: 1942		yes

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Section	Former entry (text/value)	Actual entry (text/value)	Safety relev- ant
14.8	Particulars in the transport document: UN1942, AMMONIUM NITRATE, (ammonium ni- trate), 5.1, III, (E)	Particulars in the transport document: UN1942, AMMONIUM NITRATE, 5.1, III, (E)	yes
14.8	Class: 5.1		yes
14.8	Packing group: III		yes
14.8		Regulations concerning the International Car- riage of Dangerous Goods by Rail (RID)Addition- al information	yes
14.8		Classification code: O2	yes
14.8		Danger label(s): 5.1	yes
14.8		Danger label(s): change in the listing (table)	yes
14.8		Special provisions (SP): 306, 611	yes
14.8		Excepted quantities (EQ): E1	yes
14.8		Limited quantities (LQ): 5 kg	yes
14.8		Transport category (TC): 3	yes
14.8		Hazard identification No: 50	yes
14.8	UN number: 1942		yes
14.8	Particulars in the shipper's declaration: UN1942, AMMONIUM NITRATE, (ammonium ni- trate), 5.1, III	Particulars in the shipper's declaration: UN1942, AMMONIUM NITRATE, 5.1, III	yes
14.8	Class: 5.1		yes
14.8	Packing group: III		yes
14.8		Marine pollutant: -	yes
14.8		International Civil Aviation Organization (ICAO- IATA/DGR) - Additional information	yes
14.8		Proper shipping name: Ammonium nitrate	yes
14.8		Particulars in the shipper's declaration: UN1942, Ammonium nitrate, 5.1, III	yes
14.8		Danger label(s): 5.1	yes
14.8		Danger label(s): change in the listing (table)	yes

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Section	Former entry (text/value)	Actual entry (text/value)	Safety relev ant
14.8		Special provisions (SP): A64	yes
14.8		Excepted quantities (EQ): E1	yes
14.8		Limited quantities (LQ): 10 kg	yes
15.1	• Regulation 649/2012/EU concerning the ex- port and import of hazardous chemicals (PIC): Not listed.		yes
15.1	• Regulation 1005/2009/EC on substances that deplete the ozone layer (ODS): Not listed.		yes
15.1	• Regulation 850/2004/EC on persistent organic pollutants (POP): Not listed.		yes
15.1		Restrictions according to REACH, Annex XVII	yes
15.1		Dangerous substances with restrictions (REACH, Annex XVII): change in the listing (table)	yes
15.1		96/82/EC (Seveso II): change in the listing (table)	yes
15.1		Deco-Paint Directive	yes
15.1		VOC content: 0 %	yes
15.1		VOC content: 0 ^g / _l	yes
15.1		Industrial Emissions Directive (IED)	yes
15.1		VOC content: 0 %	yes
15.1		VOC content: 0 ^g / _l	yes
15.1	Directive 2000/60/EC establishing a framework for Community action in the field of water policy (WFD): not listed	Water Framework Directive (WFD)	yes
15.1	National inventories: Substance is listed in the following national in- ventories: - EINECS/ELINCS/NLP (Europe) - REACH (Europe)		yes
15.1		List of pollutants (WFD): change in the listing (table)	yes
15.1		Regulation on the marketing and use of explos- ives precursors	yes
15.1		Explosives precursors which are subject to re- strictions: change in the listing (table)	yes

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Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
15.1		Additional statements: If the product is passed on to third parties, in accordance with Article 7 "Notification of the supply chain" of Regulation EU 2019/1148, the information obligation is subject to the entire supply chain and all other provisions men- tioned in Article 7 on restricted and regulated raw materials.	yes
15.1		Regulation on drug precursors: not listed	yes
15.1		Regulation on substances that deplete the ozone layer (ODS): not listed	yes
15.1		Regulation concerning the export and import of hazardous chemicals (PIC): not listed	yes
15.1		Regulation on persistent organic pollutants (POP): not listed	yes
15.1		Other information: Directive 94/33/EC on the protection of young people at work. Observe employment restric- tions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.	yes
15.1		National inventories	yes
15.1		National inventories: change in the listing (table)	yes
15.2	Chemical Safety Assessment: No Chemical Safety Assessment has been car- ried out for this substance.	Chemical safety assessment: According to REACH, Article 14 (1) a chemical safety assessment has been carried out for this substance or components of this mixture when the substance has been registered in quantities of 10 tonnes or more per year per registrant.	yes

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concern- ing the International Carriage of Dangerous Goods by Road)
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identi- fier of substances commercially available within the EU (European Union)
ED	Endocrine disruptor
EINECS	European Inventory of Existing Commercial Chemical Substances

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Abbr.	Descriptions of used abbreviations
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Na- tions
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code
IMDG-Code	International Maritime Dangerous Goods Code
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
NLP	No-Longer Polymer
РВТ	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regula- tions concerning the International carriage of Dangerous goods by Rail)
SVHC	Substance of Very High Concern
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

List of relevant phrases (code and full text as stated in section 2 and 3)

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

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.