

according to UK REACH Regulation

## Ammonium nitrate Fertiliser (18 % nitrogen)

Revision date: 09.02.2024

Product code: 12522.xxxxx

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

## 1.1. Product identifier

Ammonium nitrate Fertiliser (18 % nitrogen)

## UFI:

H3P3-01S8-A008-045X

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

#### Use of the substance/mixture

Ammonium nitrate (self-reactive fertilizer)

#### Uses advised against

Any non-intended use.

## 1.3. Details of the supplier of the safety data sheet

Street:	Schumannstr. 142/144	
Place:	D-63069 Offenbach	
Telephone:	+49 (0) 69 / 400 3019-60	Telefax: +49 (0) 69 / 400 3019-64
E-mail:	info@morphisto.de	
Contact person:	Morphisto GmbH	
E-mail:	gefahrstoffmanagement@morphisto.de	
Internet:	http://www.morphisto.de	
1.4. Emergency telephone	Poison Information Center Mainz, Germany, Te	l: +49(0)6131/19240

## number:

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

## GB CLP Regulation

Eye Irrit. 2; H319

Full text of hazard statements: see SECTION 16.

## 2.2. Label elements

GB CLP Regulation Signal word:

Pictograms:



Warning

Hazard statements

H319

Causes serious eye irritation.

# Precautionary statements

i recautionary statement	
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
Labelling of packages w	here the contents do not exceed 125 ml
Signal word:	Warning



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## 2.3. Other hazards

Pictograms:

This substance/mixture contains no components considered to be either persistent, bioaccumulating and toxic (PBT) or very persistent and very bioaccumulating (vPvB) at levels of 0.1% or higher. Ecological information: The substance/mixture does not contain any components that are considered to be hazardous according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in amounts of 0.1% or more have endocrine disrupting properties. Toxicological information: The substance/mixture does not contain any components that are to be classified according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more have endocrine disrupting properties.

## **SECTION 3: Composition/information on ingredients**

## 3.2. Mixtures

## **Relevant ingredients**

CAS No	Chemical name			Quantity	
	EC No Index No REACH No				
	Classification (GB CLP Regulation)				
6484-52-2	Ammonium nitrate			50 - < 55 %	
	229-347-8	01-2119490981-27			
	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			
	Specific Conc. Limits, M-factors and ATE				
6484-52-2	229-347-8 Ammonium nitrate 50 - < 55				
	inhalation: LC50 = >88,8 mg/l (dusts or mists); dermal: LD50 = >5000 mg/kg; oral: LD50 = 2950 mg/kg				

## **Further Information**

This product contains no substances of very high concern (SVHC) (>0,1%) which are included in the Candidate List according to Article 59 of REACH.

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### General information

First aider: Pay attention to self-protection! Remove casualty to fresh air and keep warm and at rest.

#### After inhalation

Provide fresh air. If unconscious but breathing normally, place in recovery position and seek medical advice. Bei Lungenreizung Erstbehandlung mit DexamethasonDosieraerosol.

#### After contact with skin

Wash with plenty of water. Take off contaminated clothing and wash it before reuse. IF ON SKIN: Gently wash with plenty of soap and water. In all cases of doubt, or when symptoms persist, seek medical advice.

## After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.



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## After ingestion

Observe risk of aspiration if vomiting occurs. Rinse mouth immediately and drink plenty of water. Medical treatment necessary.

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

Subsequent observance for pneumonia and lung oedema.

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

Treat symptomatically.

## **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

#### Suitable extinguishing media

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

#### 5.2. Special hazards arising from the substance or mixture

Non-flammable. Vapours can form explosive mixtures with air. Hazardous combustion products: Nitrogen monoxide, nitrogen dioxide, nitrous oxide, ammonia.

## 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

#### Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

#### **General advice**

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment. In case of inadequate ventilation wear respiratory protection.

#### 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 cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

#### Other information

Clean contaminated objects and areas thoroughly observing environmental regulations.

## 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

Keep the packing dry and well sealed to prevent contamination and absorbtion of humidity. Always close containers tightly after the removal of product. Use only outdoors or in a well-ventilated area. In case of inadequate ventilation wear respiratory protection.

## Advice on protection against fire and explosion

No special fire protection measures are necessary.



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## Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff.

## Further information on handling

Wash hands and face before breaks and after work and take a shower if necessary. Protect skin by using skin protective cream.

## 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep container tightly closed. Protect from moisture. Protect against: UV-radiation/sunlight. Do not dry up the product. Explosive when dry.

Recommended storage temperature: 15-25 °C

## Hints on joint storage

Do not store together with: food and feed. pharmaceuticals. Infectious substances. Radioactive substances. Explosive substances. Oxidizing substances. Oxidizing liquids. Organic peroxides. Self-reactive substances and mixtures. Pyrophoric solids. Substances which in contact with water form flammable gases. Ammonium nitrate and preparations containing ammonium nitrate.

## 7.3. Specific end use(s)

Use as fertiliser.

## **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

#### Additional advice on limit values

To date, no national critical limit values exist.

## 8.2. Exposure controls



#### Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment. Provide washing facilities at the workplace, provide an eye shower or eyewash bottle and mark them.

## Individual protection measures, such as personal protective equipment

## Eye/face protection

Suitable eye protection: goggles.

#### 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.

Hand protection when used frequently.

- Suitable material:Breakthrough time (maximum wearing time): >480 min.
- NR (Natural rubber (Caoutchouc), Natural latex). (0,5 mm)
- CR (polychloroprenes, Chloroprene rubber). (0,5 mm)
- NBR (Nitrile rubber). (0,35 mm)
- Butyl rubber. (0,5 mm)
- fluoroelastomer (FKM). (0,4 mm)
- PVC (Polyvinyl chloride). (0,5 mm)



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# Skin protection

Use of protective clothing. Chemical protection clothing.

# Respiratory protection

In case of inadequate ventilation wear respiratory protection. Suitable respiratory protective equipment: particulates filter device (DIN EN 143).P1. Identification color: white .

#### Environmental exposure controls

Do not allow uncontrolled discharge of product into the environment.

## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state:	Liquid	
Colour:	colourless	
Odour:	stinging	
Melting point/freezing point:		not determined
Boiling point or initial boiling point and		100 °C
boiling range:		
Flammability:		not determined
Lower explosion limits:		not determined
Upper explosion limits:		not determined
Flash point:		not determined
Auto-ignition temperature:		not determined
Decomposition temperature:		not determined
pH-Value (at 20 °C):		6-7
Viscosity / kinematic:		not determined
Water solubility:		easily soluble
(at 20 °C)		
Solubility in other solvents not determined		
Partition coefficient n-octanol/water:		not determined
Vapour pressure:		23 hPa
(at 20 °C)		
Vapour pressure:		123 hPa
(at 50 °C)		
Density (at 20 °C):		1,26 g/cm <sup>3</sup>
Relative vapour density:		not determined
Particle characteristics:		not applicable
9.2. Other information		
Information with regard to physical has	zard classes	
Explosive properties		
The product is not: Explosive. none		
Sustaining combustion:		Not sustaining combustion
Oxidizing properties		
Explosive when dry.		
Other safety characteristics		
Evaporation rate:		not determined
SECTION 10: Stability and reactivity		

## 10.1. Reactivity

Explosive when dry.

# 10.2. Chemical stability



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The product is stable under storage at normal ambient temperatures.

## 10.3. Possibility of hazardous reactions

When exposed to alkalis, ammonia is formed.

#### 10.4. Conditions to avoid

Do not dry up the product.

#### 10.5. Incompatible materials

Sulphur, chlorites, chlorides, chlorates, hypochlorites, acidic or alkaline substances or alkaline reacting substances, flammable, oxidisable substances, nitrites, metal salts, metal powders, herbicides, chlorinated hydrocarbons, organic compounds.

#### 10.6. Hazardous decomposition products

Nitrogen monoxide, nitrogen dioxide, nitrous oxide, ammonia.

#### **SECTION 11: Toxicological information**

## 11.1. Information on hazard classes as defined in GB CLP Regulation

#### Acute toxicity

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

#### ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
6484-52-2	Ammonium nitrate					
	oral	LD50 mg/kg	2950	Ratte		OECD Prüfrichtlinie 401
	dermal	LD50 mg/kg	>5000	Kaninchen		OECD Prüfrichtlinie 404
	inhalation (4 h) dust/mist	LC50 mg/l	>88,8	Ratte	ECHA-Dossier	

#### Irritation and corrosivity

Causes serious eye irritation.

Skin corrosion/irritation: 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.

## 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.

## 11.2. Information on other hazards

## Endocrine disrupting properties

This product does not contain any substance that has endocrine disrupting properties in humans as no ingredient meets the criteria.

## Other information

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].



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## Further information

Notes: The product has not been tested. The declaration is derived from products of similar structure or composition.

## **SECTION 12: Ecological information**

## 12.1. Toxicity

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

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method
6484-52-2	Ammonium nitrate						
	Acute fish toxicity	LC50 mg/l	>100		Cyprinus carpio (Karpfen)	SDS external	
	Acute crustacea toxicity	EC50	490 mg/l		Daphnia pulex (water flea)	SDS external	
	Acute bacteria toxicity	EC50 mg/l()	>1000	3 h	Belebtschlamm		

## 12.2. Persistence and degradability

The product has not been tested.

12.3. Bioaccumulative potential Bioaccumulation is not expected.

## 12.4. Mobility in soil

The product has not been tested.

## 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

## 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

## 12.7. Other adverse effects

slightly hazardous to water.

## Further information

Avoid release to the environment. Do not allow uncontrolled discharge of product into the environment.

## **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

## **Disposal recommendations**

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation. Consult the local waste disposal expert about waste disposal.

#### List of Wastes Code - residues/unused products

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals; hazardous waste

## List of Wastes Code - used product

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals; hazardous waste

## List of Wastes Code - contaminated packaging



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150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

#### Contaminated packaging

Wash with plenty of water. Completely emptied packages can be recycled.

#### **SECTION 14: Transport information**

#### Land transport (ADR/RID)

14.1. UN number or ID number: No dangerous good in sense of this transport regulation. 14.2. UN proper shipping name: No dangerous good in sense of this transport regulation. 14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. 14.4. Packing group: Inland waterways transport (ADN) 14.1. UN number or ID number: No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. 14.2. UN proper shipping name: 14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. 14.4. Packing group: Marine transport (IMDG) 14.1. UN number or ID number: No dangerous good in sense of this transport regulation. 14.2. UN proper shipping name: No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. 14.3. Transport hazard class(es): 14.4. Packing group: No dangerous good in sense of this transport regulation. Air transport (ICAO-TI/IATA-DGR) 14.1. UN number or ID number: No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. 14.2. UN proper shipping name: 14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation. 14.4. Packing group: No dangerous good in sense of this transport regulation. 14.5. Environmental hazards ENVIRONMENTALLY HAZARDOUS: No 14.6. Special precautions for user Not controlled under ADR 14.7. Maritime transport in bulk according to IMO instruments Not controlled under ADR

## **SECTION 15: Regulatory information**

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU regulatory information

Restrictions on use (REACH, annex XVII): Entry 3, Entry 58

## Additional information

This preparation is hazardous in the sense of regulation (EC) No 1272/2008 [GHS].

#### National regulatory information

Employment restrictions:Observe restrictions to employment for juveniles according to the 'juvenile<br/>work protection guideline' (94/33/EC).Water hazard class (D):1 - slightly hazardous to water

## 15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:



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Ammonium nitrate

## **SECTION 16: Other information**

#### Changes

This data sheet contains changes from the previous version in section(s): 1,2,3,4,5,6,7,8,9,10,11,12,13,15,16. Rev. 1,00; 18.02.2021; Initial release Rev. 2,0; 09.02.2024; general adjustment(s) Abbreviations and acronyms

Ox. Sol: Oxidising solids Eve Irrit: Eve irritation CLP: Classification, labelling and Packaging REACH: Registration, Evaluation and Authorization of Chemicals GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals **UN: United Nations** CAS: Chemical Abstracts Service DNEL: Derived No Effect Level DMEL: Derived Minimal Effect Level PNEC: Predicted No Effect Concentration ATE: Acute toxicity estimate LC50: Lethal concentration, 50% LD50: Lethal dose. 50% LL50: Lethal loading, 50% EL50: Effect loading, 50% EC50: Effective Concentration 50% ErC50: Effective Concentration 50%, growth rate NOEC: No Observed Effect Concentration BCF: Bio-concentration factor PBT: persistent, bioaccumulative, toxic vPvB: very persistent, very bioaccumulative ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) RID: Regulations concerning the international carriage of dangerous goods by rail ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures) IMDG: International Maritime Code for Dangerous Goods EmS: Emergency Schedules MFAG: Medical First Aid Guide IATA: International Air Transport Association ICAO: International Civil Aviation Organization MARPOL: International Convention for the Prevention of Marine Pollution from Ships IBC: Intermediate Bulk Container SVHC: Substance of Very High Concern For abbreviations and acronyms, see table at http://abbrev.esdscom.eu EC/EEC: European Community/European Economic Community EU: European Union M-factor: Multiplying factor IATA: International Air Transport Association DGR: Dangerous Goods Regulations ICAO: International Civil Aviation Organization **TI: Technical Instructions** For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).



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## Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Eye Irrit. 2; H319	Calculation method

## Relevant H and EUH statements (number and full text)

May intensify fire; oxidiser.

Causes serious eye irritation.

## **Further Information**

H272

H319

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations. 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.

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)