

Entec® 24+8+7+3 S

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Date of issue: 1/18/2017 Revision date: 1/18/2017 Version: 1.00

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

1.1. Product identifier

Trade name : Entec® 24+8+7+3 S
Article number : 5580

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Fertilizer

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier

EuroChem Agro GmbH
Reichskanzler-Müller-Str. 23
68165 Mannheim - Germany
T +49 621 87209-0 - F +49 621 87209-101
info.europe@eurochemgroup.com

Email competent person

sds@kft.de

1.4. Emergency telephone number

Emergency number : National Response Center (international)
TUIS-Emergency number: +49 1802 273112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

EUH-statements : EUH210 - Safety data sheet available on request

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Comments : Fertilizer

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
ammonium nitrate	(CAS No) 6484-52-2 (EC No) 229-347-8	10 - 70	Ox. Sol. 3, H272 Eye Irrit. 2, H319

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	(REACH-no) 01-2119490981-27-xxxx		
ammonium chloride	(CAS No) 12125-02-9 (EC No) 235-186-4 (EC Index No) 017-014-00-8 (REACH-no) 01-2119489385-24-xxxx	1 - 25	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319

Specific concentration limits:

Name	Product identifier	Specific concentration limits
ammonium nitrate	(CAS No) 6484-52-2 (EC No) 229-347-8 (REACH-no) 01-2119490981-27-xxxx	(C >= 80) Eye Irrit. 2, H319

Comments : Classification is not based on Dangerous Regulation (EG)1272/2008, because the ammonium chloride precursor was not classified as eye irritant by the manufacturer, based on his own test results.

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact : Wash skin with plenty of water. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact : If eye irritation persists: Get medical advice/attention. Rinse eyes with water as a precaution.
First-aid measures after ingestion : Get medical advice/attention if you feel unwell.

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

No additional information available

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

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray.
Unsuitable extinguishing media : Carbon dioxide. extinguishing powder. Foam.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Carbon monoxide. Carbon dioxide (CO₂). Ammonia. Nitrogen oxides. Hydrogen chloride.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
Other information : Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Do not allow into drains or water courses.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Mechanically recover the product.
Other information : Disposal must be done according to official regulations. Shovel into suitable and closed container for disposal.

6.4. Reference to other sections

Information for safe handling. See section 7. Concerning personal protective equipment to use, see section 8. For further information refer to section 13.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid dust formation. Ensure good ventilation of the work station. Wear personal protective equipment. Avoid contact with skin and eyes. Keep away from any flames or sparking source.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

Information about storage in one common storage facility : Keep away from food, drink and animal feeding stuffs. Do not store with: Organic materials.

Storage area : Protect from moisture. Store away from heat.

7.3. Specific end use(s)

Fertilizer.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

ammonium chloride (12125-02-9)

United Kingdom	Local name	Ammonium chloride
United Kingdom	WEL TWA (mg/m ³)	10 mg/m ³ fume
United Kingdom	WEL STEL (mg/m ³)	20 mg/m ³ fume

ammonium nitrate (6484-52-2)

DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	5.12 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	36 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	2.56 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	8.9 mg/m ³
Long-term - systemic effects, dermal	2.56 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0.45 mg/l
PNEC aqua (marine water)	0.045 mg/l
PNEC aqua (intermittent, freshwater)	4.5 mg/l
PNEC (STP)	
PNEC sewage treatment plant	18 mg/l

ammonium chloride (12125-02-9)

DNEL/DMEL (Workers)	
Acute - systemic effects, dermal	190 mg/kg bodyweight/day
Acute - systemic effects, inhalation	33.5 mg/m ³
Long-term - systemic effects, dermal	128.9 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	43.97 mg/m ³
DNEL/DMEL (General population)	
Acute - systemic effects, dermal	114 mg/kg bodyweight
Long-term - systemic effects, oral	55.2 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	9.4 mg/m ³
Long-term - systemic effects, dermal	55.2 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0.25 mg/l
PNEC aqua (marine water)	0.025 mg/l
PNEC aqua (intermittent, freshwater)	0.43 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0.9 mg/kg dwt
PNEC sediment (marine water)	0.09 mg/kg dwt
PNEC (Soil)	
PNEC soil	50.7 mg/kg dwt

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station. Wash hands before break and at end of works. Avoid dust formation.

Hand protection:

Chemically resistant protective gloves. EN 374. The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Nitrile rubber. Butyl rubber. Chloroprene rubber

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Eye protection:

Chemical goggles

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Dust production: dust mask with filter type P1

Environmental exposure controls:

Avoid release to the environment.

Other information:

Do not eat, drink or smoke when using this product. Do not breathe dust. Wash hands before breaks and after work. Avoid contact with skin and eyes.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Granulate.
Colour	: Green.
Odour	: none to slight.
Odour threshold	: No data available
pH	: 5 (100 g/l)
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: > 130 °C
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: Not applicable
Solubility	: Soluble.
Log Pow	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available
Explosive properties	: Product is not explosive.
Oxidising properties	: Non oxidizing.
Explosive limits	: Not applicable

9.2. Other information

Bulk density : $\approx 1100 \text{ kg/m}^3$

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known. Stable under normal conditions of use.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

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10.5. Incompatible materials

Organic materials.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified (Based on available data, the classification criteria are not met)

ATE CLP (oral)	5100 mg/kg
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ammonium nitrate (6484-52-2)

LD50 oral rat	2950 mg/kg
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LD50 dermal rat	> 5000 mg/kg
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LC50 inhalation rat (mg/l)	> 88.8 mg/l/4h
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ammonium chloride (12125-02-9)

LD50 oral rat	1410 mg/kg
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LD50 dermal rat	> 2000 mg/kg
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Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)
pH: 5 (100 g/l)

Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met)
pH: 5 (100 g/l)

Additional information : Read-across

Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met)

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)

Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)

Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)

STOT-single exposure : Not classified (Based on available data, the classification criteria are not met)

STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)

Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

SECTION 12: Ecological information

12.1. Toxicity

ammonium nitrate (6484-52-2)

EC50 Daphnia 1	> 490 mg/l (48h; EC50 (Daphnia Magna))
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EC50 other aquatic organisms 1	447 mg/l (48h; Cyprinus carpio (Common carp))
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EC50 72h algae (1)	1700 mg/l (10 d; algae)
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ammonium chloride (12125-02-9)

LC50 fish 1	209 mg/l (96h; Cyprinus carpio (Karpfen))
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EC50 Daphnia 1	161 mg/l (48h; Daphnia magna)
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12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

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This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

No additional information available

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations : Do not dispose of with domestic waste. Comply with local regulations for disposal.

European List of Waste (LoW) code : 02 01 08* - agrochemical waste containing dangerous substances

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available				

14.6. Special precautions for user

- Overland transport

Not applicable

- Transport by sea

Not applicable

- Air transport

Not applicable

- Inland waterway transport

Not applicable

- Rail transport

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

58. Ammonium nitrate (AN) | ammonium nitrate

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Seveso Information : 1. Ammonium nitrate

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

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SECTION 16: Other information

Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
EC50	Median effective concentration
LC50	Median lethal concentration
LD50	Median lethal dose
PNEC	Predicted No-Effect Concentration
PBT	Persistent Bioaccumulative Toxic
vPvB	Very Persistent and Very Bioaccumulative

Data sources : ASSESSMENT OF THE CLASSIFICATION AS EYE IRRITANT
OF AMMONIUM NITRATE BASED FERTILIZERS ALSO CONTAINING AMMONIUM
CHLORIDE
Report prepared by Fertilizers Europe/November 2012.

Department issuing data specification sheet: : KFT Chemieservice GmbH
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Full text of H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Ox. Sol. 3	Oxidising Solids, Category 3
H272	May intensify fire; oxidiser
H302	Harmful if swallowed
H319	Causes serious eye irritation
EUH210	Safety data sheet available on request

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product