

Trade Name: Ferty® 1
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Revised:**1. Identification of the substance/preparation and the company/undertaking****1.1. Identification of the substance or preparation**

Ferty® 1

1.2. Use of the substance/preparation

Water-soluble fertilizer for horticulture and agriculture

1.3. Company/undertaking identification

Planta-Düngemittel GmbH

Schwanenstraße 22

D – 93128 Regenstauf

Tel.: ++ 49(0)9402/8125

info@plantafer.com**1.4. Emergency telephone****Poison Emergency Call Munich** ++49(0)89-19240**2. Hazards Identification****2.1. Classification of the substance/preparation**

Not classified as health or environmental hazard under (EC) Nr.1272/2008 (CLP)

2.2. Other hazards which do not result in classification

In case of fire: Nitrogen oxide and ammonia may develop.

3. Composition/Information on Ingredients**3.1. Substances**

This product is a preparation/mixture

3.2. Preparations

Mixture of ammonium, magnesium and potassium salts, sulphate, phosphate, nitrate and trace elements.

CAS-Nr.	REACH-Reg.-Nr.	Name	EINECS No.	Concentr. (%)	Classification (CLP)	DSD 67/548/CEE
6484-52-2	01-2119490981-27-0015	Ammonium nitrate	229-347-8	0 – 45	H 272	O
7757-79-1	01-2119490981-27-0015	Potassium nitrate	231-818-8	0 – 10	H 272	Hazard symbol O
10043-35-3	01-2119486683-25-0028	Boric acid	233-139-2	0 – 0,2	H 360 FD	-
14025-15-1	05-2117241977-31-0000	Copper chelate EDTA	237-864-5	0 – 0,2	H 302	Xn; R 22

(For R-phrases and H-statements in full: See section 16)

4. First Aid Measures**4.1. Inhalation**

Move person into fresh air; in case of respiratory problems: seek medical help.

4.2. Skin contact

Remove contaminated clothing; wash with soap and water.

4.3. Eye contact

Rinse immediately with plenty of water; remove contact lenses. In case of problems seek medical help.

4.4. After ingestion

Rinse mouth with water; give water to drink; if necessary seek medical help.

4.5. Additional information

Respiration of decomposition fumes: Seek medical help and show this information!

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5. Fire-fighting Measures

5.1. Extinguishing media

Suitable: For surrounding fires: Water
Not suitable: Do not use dry chemicals or foams.

5.2. Special exposure hazards

Do not inhale the decomposition fumes.

5.3. Protective equipment for fire fighters

Wear self-contained breathing apparatus and protective suit.

5.4. Special instructions

Avoid allowing the firefighting water into the ground water

6. Accidental Release Measures

6.1. Personal precautions

Avoid dust formation; see sections 7 and 8.

6.2. Environmental precautions

Do not allow the product to get into the ground water or sewage system.

6.3. Methods for cleaning up

After spilling: Sweep up or vacuum up material and dispose of (see section 13) or reuse material.

7. Handling and Storage

7.1. Handling procedures

Avoid contact with eyes and skin; avoid dust generation.

General hygiene measures:

- Don't eat, drink or smoke in working areas
- Wash hands after handling
- Remove contaminated clothing

7.2. Advice for fire protection

The product itself is incombustible. In case of surrounding fire: Nitrogen oxide and ammonia may develop.

7.3. Storage requirements

Keep dry at room temperature in closed packages; avoid contact with heat sources and oxidizing substances

Do not store with combustible substances, acids or bases.

Keep away from heat.

7.4. Requirements for rooms and containers

Observe regulations for water protection.

Keep dry, storage only in original packages.

8. Exposure Control/Personal Protection

8.1. Exposure limits

There are no determined exposure limits

8.2. Personal Protection

- Respiratory protection: Dust mask with filter type P1
- Hand protection: possibly protective gloves (rubber)
- Eye protection: wear safety glasses to avoid eye contact.

8.3. Environmental exposure control

See section 6 and 7.

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9. Physical and Chemical Properties

9.1. General information

Appearance: powder
Color: pink
Odour: odourless
Explosive properties: product is not explosive
Boiling point: not applicable
Vapor pressure: not applicable
Flash point: not applicable
Melting point: not applicable (mixture)
Water solubility: max. ca. 300 g/l
Bulk density: ca. 1070 g/dm³
pH-value (2 g/l) at 20°C: ca. 4.3
Viscosity: not applicable
Vapor density: not applicable

9.2. Other Information

No further physical and chemical data determined

10. Stability and Reactivity

10.1. Reactivity

Hygroscopic

10.2. Chemical stability

Stable under normal conditions

10.3. Possible dangerous reactions

No dangerous reaction if used as intended

10.4. Conditions to avoid

Humidity; high temperatures

10.5. Materials to avoid

Combustible material, strong acids and bases, reducing material, chlorates, chlorites, hypochlorite, nitrites, chlorate containing herbicides

10.6. Dangerous decomposition products

In case of burning: Nitrogen oxides, ammonia.

11. Toxicological Information

11.1. Acute toxicity: no data available

11.2. Irritation: Weakly irritating

11.3. Sensitizing: Not sensitizing.

11.4. Chronic toxicity: no data available

11.5. Carcinogenicity: no data available

11.6. Mutagenicity: no data available

11.7. Reproductive effects: no data available

12. Ecological Information

12.1. Eco-toxicity

Low hazardous to waters (self-classified)

12.2. Persistence

Biodegradable

12.3. Bioaccumulation potential

No Bioaccumulation potential

12.4. Mobility

Product is water-soluble and shouldn't get into the ground water

12.5. Other harmful effects

No data available

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13. Disposal Considerations

13.1. Methods of disposal

Product: Safest to dispose of product by using it as intended, possibly in agriculture; otherwise: hazardous waste site. European Waste Catalogue and Hazardous Waste List: 02 01 09 "Agrochemical waste other than those mentioned in 02 01 08".

Packages: Emptied packages: Recycling or residual waste.

14. Transport Information

14.1. UN number

2071

14.2. UN Proper shipping name

ADR/RID: UN 2071 Ammonium nitrate fertilizers: uniform non-segregating mixtures of nitrogen/phosphate or nitrogen/potash types or complete fertilizers of nitrogen/phosphate/potash type, with not more than 70 percent ammonium nitrate and not more than 0.4 percent total combustible/organic material calculated as carbon or with not more than 45% ammonium nitrate and unrestricted combustible material.

IMDG-Code: UN 2071 Ammonium nitrate containing fertilizers

14.3. Class

9 (Miscellaneous dangerous substances and articles)

14.4. Packing group

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14.5. Ecological menace

Not harmful to the environment

14.6. Caution information for the user

See sections 6 – 8

Additional information: Not subject to ADR; no special measures required. (Exceptional rule for UN 2071)

15. Regulatory Information

15.1. EU regulations

Regulation (EC) No 2003/2003 of the European Parliament and of the Council of 13 October 2003 relating to fertilizers

15.2. National regulations

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Germany:

Regulation on protection against hazardous substances (Gefahrstoffverordnung – GefStoffV), dated 26.11.2010

WGK 1: Low hazardous to waters (self-classified)

15.3. Safety Assessment

Mixture was not subject of a safety assessment.

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16. Other Information

Revision information

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Information source

Regulation (EC) Nr. 1907/2006 (REACH)
Regulation (EC) Nr. 1272, 2008 (CLP/GHS)
Directive 1999/45/EC (DPD)
Directive 67/548/CEE (DSD)

Links

<http://www.baua.de>
<http://www.gischem.de>
<http://reach.bdi.info>

R-phrases and H-statements in full from section 3

H 272	May intensify fire; oxidizer.
H 360 FD	May impair fertility or cause harm to the unborn child
H 302	Harmful if swallowed

Explanation of the labeling as per Directive 67/548/CEE

Hazard symbol	O	Oxidizer
Xn		Harmful
R 22		Harmful if swallowed

Disclaimer

This information bases on our practical experience and know-how. It corresponds to the best of our knowledge, but it excludes any obligation on our part. As we have no influence on stock-keeping and application, we only guarantee for the perfect quality of our products at the moment of delivery.