

Trade Name: Ferty® 4  
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Revised:**1. Identification of the substance/preparation and the company/undertaking**

- 1.1. Identification of the substance or preparation**  
Ferty® 4
- 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@plantafert.com](mailto:info@plantafert.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
7757-79-1	01-2119490981-27-0015	Potassium nitrate	231-818-8	0 – 20	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:** colourless  
**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. 250 g/l  
**Bulk density:** ca. 1210 g/dm<sup>3</sup>  
**pH-value (2 g/l) at 20°C:** ca. 3.7  
**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.