

Trade Name: Ferty® MKP
Date: 2016-02-13

page 1 of 4
Revised:

1. Identification of the substance/preparation and the company/undertaking

1.1. Identification of the substance or preparation

Ferty® MKP 0+52+34,5

Use of the substance/preparation

Water-soluble fertilizer for horticulture and agriculture

1.2. Company/undertaking identification

Planta-Düngemittel GmbH

Schwanenstraße 22

D – 93128 Regenstauf

Contact for technical information

Telephone/Fax/email

++ 49(0)9402/8125 /++49(0)9402/6530 / info@plantafer.com

1.3. 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

None.

3. Composition/Information on Ingredients

3.1. Substances

This product is a substance

CAS-Nr.	Component	EC-No.	Weight%	Hazard classification
778-77-0	Potassiumdihydrogen-orthophosphate	231-913-4	0 - 100	

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 water and soap.

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.

Trade Name: Ferty® MKP
Date: 2016-02-13

page 2 of 4
Revised:

5. Fire-fighting Measures

5.1. Extinguishing media

Adapt extinguishing media to the environment.

5.2. Special exposure hazards

None.

5.3. Protective equipment for fire fighters

Wear self-contained breathing apparatus and protective suit.

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.

7.3. Storage requirements

Keep dry at room temperature in closed packages.

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. Control parameters

MONOPOTASSIUM PHOSPHATE(7778-77-0)

DNEL/DMEL (Workers): Long-term - systemic effects, inhalation 4,07 mg/m³

DNEL/DMEL (General population): Long-term - systemic effects, inhalation 3,04 mg/m³

PNEC (Water):

PNEC aqua (freshwater) 0,05 mg/l

PNEC aqua (marine water) 0,005 mg/l

PNEC aqua (intermittent, freshwater) 0,5 mg/l

PNEC (STP): PNEC sewage treatment plant 50 mg/l

8.2. Personal Protection

- Respiratory protection: Dust mask with filter type P1
- Hand protection: possibly protective gloves (rubber)
- Eye protection: normally not required

8.3. Environmental exposure control

See section 6 and 7.

Trade Name: Ferty® MKP
Date: 2016-02-13page 3 of 4
Revised:**9. Physical and Chemical Properties****9.1. General information****Appearance:** Chrystals**Color:** white**Odour:** none**Explosive properties:** product is not explosive**Vapor pressure:** 4,5x10⁻¹⁵ Pa at 25°C**Boiling point:** > 450°C**Melting point:** 253°C**Water solubility:** 226 g/l**Bulk density:** ca. 1300 g/dm³**pH-value (1 %) at 20°C:** 4.3 – 4.7**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

None.

10.4. Conditions to avoid

Humidity

10.5. Materials to avoid

None.

10.6. Dangerous decomposition products

Phosphorus oxides

11. Toxicological Information**11.1. Acute toxicity:**

Route of exposure	Parameter	Method	Value	Species
Oral	LD50	OCED 420	>2000 mg/kg	Rat
Dermal	LD50	OECD 402	>2000 mg/kg bw	Rat
Inhalation	LC50	4h – OECD 403	0,83 mg/l	Rat

Conclusion: Not classified for acute toxicity**11.2. Irritation:** Not irritating**11.3. Sensitizing:** Not expected to be a sensitizing agent**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

Trade Name: Ferty® MKP
Date: 2016-02-13page 4 of 4
Revised:**12. Ecological Information****12.1. Eco-toxicity**

	Parameter	Method	Value	Duration	Species
Acute toxicity fishes	LC50	OECD 203	>100 mg/l	96 h	Rainbow trout
Daphnia	EC 50	OECD 202	>100 mg/l	48 h	Daphnia magna
Algae	NOEC chronic	OECD 201	>100 mg/l	72 h	Desmodesmus subspicatus

12.2. Persistence

Not applicable

12.3. Bioaccumulation potential

No data available

12.4. Mobility

No data available

12.5. Results of PBT and vPvB assessment:

The criteria of PBT and vPvB as listed in Annex XIII of Regulation (EC) No 1907/2006 do not apply to inorganic substances.

12.5. Other information

Phosphates are plant nutrient and as such may contribute to the growth of phytoplanktons in water.

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**

Not subject

14.2. UN Proper Shipping Name

-

IMDG-Code: -**14.3. Packing group**

-

14.4. Ecological menace

Not harmful to the environment

14.5. Caution information for the user

See sections 6 – 8

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

Regulation (EC) Nr. 1907/2006 (REACH)

16. Other InformationContact person: Dipl.-Chem. Brigitte Gaudlitz
gaudlitz@plantafert.com**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.