

Ref.: 348/1.4/BS/BS  
Revision Date: 21.01.1998**Urea phosphate**  
Previous date: 17.03.1997Print Date: 07.01.2003  
Page: 1 / 4**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING****Product name**

Urea phosphate

**Manufacturer, importer, supplier**Kemira Agro Oy  
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P.O. Box 330  
FIN-00101 HELSINKI  
FINLAND

# Tel. +358 10 861 511 Fax. +358 10 862 1707

**Emergency telephone number**

# Tel. +358 10 861 517 Fax. +358 10 862 4219

**2. COMPOSITION/INFORMATION ON INGREDIENTS****Chemical characterisation**

Urea phosphate

**Hazardous components****CAS-No.****Chemical name of the  
substance /  
Classification****Weight %**

4861-19-2

Urea phosphate  
C, R 34  
EU no 2254643

ca. 100 %

**3. HAZARDS IDENTIFICATION**

Causes burns, forms phosphoric acid and urea in water.

**4. FIRST AID MEASURES****General advice**

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**Inhalation**

Remove from exposure, lie down. Move to fresh air. If symptoms, call a physician.

**Skin contact**

Wash off with plenty of water. Remove contaminated clothing.

**Eye contact**

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**Ingestion**

Immediately give plenty of water. If you feel unwell, seek medical advice. Do not induce vomiting.

**5. FIRE-FIGHTING MEASURES****Suitable extinguishing media**

The product itself does not burn.

**Extinguishing media which must not be used for safety reasons**

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**Specific hazards**Heating can release hazardous gases (NH<sub>3</sub> and CO<sub>2</sub>).**Special protective equipment for firefighters**

Standard procedure for chemical fires. Wear self-contained breathing apparatus and protective suit.

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## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Avoid contact with the skin and the eyes. Use personal protective equipment.

### Environmental precautions

Should not be released into the environment.

### Methods for cleaning up

Flush with plenty of water. Dispose of as special waste in compliance with local and national regulations (e.g. use as P- and N-fertilizers).

## 7. HANDLING AND STORAGE

### Handling

#### Safe handling advice

Wear personal protective equipment. Avoid dust formation.

#### Technical measures/Precautions

Use only in area provided with appropriate exhaust ventilation.

### Storage

#### Technical measures/Storage conditions

Keep in a dry place or keep container tightly closed.

#### Incompatible products

Keep away from combustible material. Incompatible with bases.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Engineering measures

Provide sufficient air exchange and/or exhaust in work rooms. Consult a physician if necessary. Wear suitable gloves and eye/face protection. Wear respirator with dust filter.

### National occupational exposure limits

Exposure limit(s):

Phosphoric acid

HTP(8h) = 1 mg/m<sup>3</sup> Finland

mg/m<sup>3</sup> Finland

TLV = 1 mg/m<sup>3</sup> (TWA) USA

HTP(15min) = 3

### Personal protective equipment

#### Hygiene measures

Avoid contact with skin, eyes and clothing.

#### Respiratory protection

In case of insufficient ventilation wear suitable respiratory equipment (filter type P2).

#### Hand protection

PVC or other plastic material gloves

#### Eye protection

goggles / face-shield

#### Skin and body protection

Wear suitable protective clothing and gloves.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Form, Colour, Odour

crystalline powder; white; odourless

### pH

1,8 (1 % solution )

### Boiling point/range

no data available

### Melting point/range

117 °C

### Decomposition temperature

no data available

### Flash point

not applicable

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<b>Flammability (solid, gas)</b>	no data available
<b>Autoignition temperature</b>	does not ignite
<b>Explosive properties</b>	not applicable
<b>Explosion limits</b>	
- lower	not applicable
- upper	not applicable
<b>Vapour pressure</b>	no data available
<b>Relative density</b>	1759 kg/m <sup>3</sup> (21 °C)
<b>Bulk density</b>	1000 kg/m <sup>3</sup>
<b>Solubility</b>	
- water solubility	96 g/100 ml (20 °C)
- fat solubility	no data available
<b>Partition coefficient (n-octanol/water)</b>	no data available
<b>Viscosity</b>	no data available

### 10. STABILITY AND REACTIVITY

**Conditions to avoid**

High temperatures

**Materials to avoid**

bases, oxidizing and reducing agents

**Hazardous decomposition products**

High temperatures can release hazardous gases, e.g. NH<sub>3</sub> and CO<sub>2</sub>.

### 11. TOXICOLOGICAL INFORMATION

**Acute toxicity**

LD50/oral/mouse = 5840 mg/kg

**Primary irritation**

Causes burns. Irritating to eyes and skin.

**Sensitisation**

no data available

**Long term toxicity**

no data available

**Human experience**

Irritating to eyes and skin.

### 12. ECOLOGICAL INFORMATION

**Persistence and degradability**

Not biodegradable.

**Bioaccumulation**

Does not bioaccumulate.

**Mobility**

Soluble in water, forms phosphoric acid and urea.

**Ecotoxicity effects**

May be harmful to aquatic organisms (pH). Eutrophication.

### 13. DISPOSAL CONSIDERATIONS

**Contaminated packaging**

Clean container with water. Dispose of as special waste in compliance with local and national regulations. Empty containers should be returned to the supplier.

**Waste from residues / unused products**

Solutions with low pH-value must be neutralized. Dispose of as special waste in compliance with local and national regulations.

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Page: 4 / 4**14. TRANSPORT INFORMATION**

<b>UN-No</b>	1759
<b>Packaging group</b>	III
<b>Land transport</b>	
<b>Class</b>	8
<b>Item</b>	65(c)
<b>Risk code</b>	80/1759
<b>ADR/RID-Labels</b>	8 - Corrosive
<b>Description of the goods</b>	1759 Corrosive solid, n.o.s. (Urea phosphate)
<b>Sea transport</b>	
<b>Class</b>	8
<b>Proper shipping name</b>	CORROSIVE SOLID, N.O.S. (Urea phosphate)
<b>EmS</b>	8-15
<b>Packaging group</b>	III
<b>Marine pollutant</b>	not
<b>IMO-Labels</b>	8 -Corrosive
<b>Air transport</b>	
<b>ICAO</b>	8
<b>Proper shipping name</b>	Corrosive solid, n.o.s. (Urea phosphate)
<b>ICAO-Labels</b>	8 -Corrosive

**15. REGULATORY INFORMATION**

The product is classified and labelled in accordance with EU directives.

**Symbol(s)**

C Corrosive

**Contains**

Urea phosphate

**R-phrases**

R34 Causes burns.

**S-phrases**

S2 Keep out of reach of children.  
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S39 Wear eye/face protection.  
S45 In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).

**16. OTHER INFORMATION****Recommended use**

Raw material for fertilizers and other suitable purposes.

**Further information**

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