

# Material Safety Data Sheet

SECTION 1: Identification of the substance/mixture and of the company/undertaking			
Product name		di-Potassium Hydrogen Ortho Phosphate (Dibasic) Anhydrous	
Mol. formula	K2HPO4	Cas no	7758-11-4
Mol. wt.	174,18 g/mol		
Manufacture name	Pioneers for laboratory chemicals		
Brand name	PIOCHEM		
Address	Area 540, Industrial Zone 6 <sup>th</sup> October city Giza, Egypt.		
Website	www.piochem.com		
E-mail	info@piochem.com		
Phone number	+201225728304, +201023932115		

## SECTION 2: Hazards identification 2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

This substance is not classified as dangerous according to Directive 67/548/EEC. **2.2 Label elements**

The product does not need to be labelled in accordance with EC directives or respective national laws.

## 2.3 Other hazards - none

## SECTION 3: Composition/information on ingredients 3.1 Substances

Synonyms : Dipotassium hydrogenphosphate  
Dipotassium phosphate sec.-  
Potassium phosphate

Formula : K<sub>2</sub>HPO<sub>4</sub>  
Molecular Weight : 174,18 g/mol  
CAS-No. : 7758-11-4  
EC-No. : 231-834-5

No components need to be disclosed according to the applicable regulations.

## SECTION 4: First aid measures 4.1 Description of first aid measures If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

### In case of skin contact

Wash off with soap and plenty of water.

### In case of eye contact

Flush eyes with water as a precaution.

### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

**4.2 Most important symptoms and effects, both acute and delayed**  
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

**4.3 Indication of any immediate medical attention and special treatment needed** no data available

## **SECTION 5: Firefighting measures**

### **5.1 Extinguishing media Suitable**

#### **extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**5.2 Special hazards arising from the substance or mixture**  
Oxides of phosphorus, Potassium oxides **5.3 Advice for firefighters**

Wear self contained breathing apparatus for fire fighting if necessary.

**5.4 Further information**  
no data available

## **SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures**  
Avoid dust formation. Avoid breathing vapours, mist or gas. For personal protection see section 8.

**6.2 Environmental precautions**  
Do not let product enter drains.

**6.3 Methods and materials for containment and cleaning up**  
Sweep up and shovel. Keep in suitable, closed containers for disposal.

**6.4 Reference to other sections** For disposal see section 13.

## **SECTION 7: Handling and storage 7.1 Precautions for safe handling**

Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

**7.2 Conditions for safe storage, including any incompatibilities**  
Store in cool place. Keep container tightly closed in a dry and well-ventilated place.  
hygroscopic

**7.3 Specific end use(s)**  
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

## **SECTION 8: Exposure controls/personal protection**

### **8.1 Control parameters Components with workplace**

#### **control parameters 8.2 Exposure controls**

**Appropriate engineering controls**  
General industrial hygiene practice.

#### **Personal protective equipment Eye/face protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### **Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### **Body Protection**

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### Control of environmental exposure

Do not let product enter drains.

## SECTION 9: Physical and chemical properties 9.1 properties

## Information on basic physical and chemical

- a) Appearance      Form: granules  
   Colour: white
- b) Odour      odourless
- c) Odour Threshold      no data available
- d) pH      8,7 - 9,3 at 50 g/l at 25 °C
- e) Melting point/freezing point      340 °C
- f) Initial boiling point and      no data available boiling range
- g) Flash point      no data available
- h) Evaporation rate      no data available
- i) Flammability (solid, gas) no data available
- j) Upper/lower      no data available flammability or explosive limits
- k) Vapour pressure      no data available
- l) Vapour density      no data available
- m) Relative density 2,300 g/cm<sup>3</sup>
- n) Water solubility      soluble
- o) Partition coefficient: n-      no data available octanol/water
- p) Auto-ignition      no data available temperature
- q) Decomposition      no data available temperature
- r) Viscosity      no data available
- s) Explosive properties      no data available
- t) Oxidizing properties      no data available

## 9.2 Other safety information

Bulk density      1.300 kg/m<sup>3</sup>

## SECTION 10: Stability and reactivity

**10.1 Reactivity** no data available

## 10.2 Chemical stability

Stable under recommended storage conditions.

**10.3 Possibility of hazardous reactions** no data available **10.4 Conditions to avoid** no data available **10.5 Incompatible materials** Strong oxidizing agents **10.6 Hazardous decomposition products**

Other decomposition products - no data available  
In the event of fire: see section 5

## SECTION 11: Toxicological information 11.1 Information on toxicological effects

**Acute toxicity** no data available

**Skin corrosion/irritation**  
no data available **Serious**  
**eye damage/eye irritation**  
no data available  
**Respiratory or skin**  
**sensitisation** no data  
available **Germ cell**  
**mutagenicity** no data  
available **Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**Reproductive toxicity**  
no data available  
**Specific target organ**  
**toxicity - single**  
**exposure** no data  
available **Specific target**  
**organ toxicity -**  
**repeated exposure** no  
data available  
**Aspiration hazard** no  
data available **Additional**  
**Information**  
RTECS: Not available

Lowered blood pressure, Abdominal pain, Nausea, Vomiting, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## SECTION 12: Ecological information

**12.1 Toxicity** no data  
available

**12.2 Persistence and degradability** no  
data available **12.3**  
**Bioaccumulative potential** no  
data available **12.4 Mobility in**  
**soil** no data available **12.5**  
**Results of PBT and vPvB**  
**assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**12.6 Other adverse effects** no  
data available

## SECTION 13: Disposal considerations 13.1 Waste treatment methods Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

### Contaminated packaging

Dispose of as unused product.

## SECTION 14: Transport information 14.1 UN number

ADR/RID: - IMDG: - IATA: -

**14.2 UN proper shipping name** ADR/RID:

Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

**14.3 Transport hazard class(es)**

ADR/RID: - IMDG: - IATA: -

**14.4 Packaging group**

ADR/RID: - IMDG: - IATA: -

**14.5 Environmental hazards**

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

**14.6 Special precautions for user** no  
data available

## **SECTION 15: Regulatory information**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture** no

data available **15.2 Chemical Safety Assessment**

For this product a chemical safety assessment was not carried out