

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifiers

Product name: Monopotassium phosphate
CAS-N°: 7778-77-0

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Fertilizer

1.3 Details of the supplier of the safety data sheet

Company: Heliopotasse
25 place de la reunion
68100 Mulhouse - France
Telephone: +33 (0)3.89.36.39.50
Fax: +33 (0)3.89.46.01.22
E-mail address: motreff@heliopotasse.fr

1.4 Emergency telephone number

Emergency Phone N° I.N.R.S.:+33 (0)1 45 42 59 59

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

Name: Monopotassium phosphate
Synonyms: Potassium phosphate monobasic
Potassium dihydrogen phosphate
MKP

Formula:	H ₂ PO ₄
Molecular Weight	136.09 g/mol
CAS-N°	7778-77-0
EC-N°	231-913-4

3.2 Mixtures

Ingredient name	Weight %	EC N°	CAS N°
Monopotassium phosphate	99-100 %	231-913-4	7778-77-0

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

Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if irritation develops.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Give several glasses of water to drink to dilute. If large amounts were swallowed or symptoms occur, get medical advice. Never give anything by mouth to an unconscious person.

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
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- 5.2 Special hazards arising from the substance or mixture
Carbon oxides, nitrogen oxides (NO_x).
- 5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

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. Normal measures for preventive fire protection.
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.
- 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 parameters.

8.2 Exposure controls

Appropriate engineering controls

Use with adequate ventilation. If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Individual protection measures, such as personal protective equipment

(a) Eye/face protection

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

(b) Skin protection

(i) Hand protection

The personal protective equipment required varies, depending upon your risk assessment. For prolonged or repeated handling, use the following type of gloves: leather work gloves

(ii) Other

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Cotton or cotton/synthetic overalls or coveralls are normally suitable.

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

(c) Respiratory protection

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1	Information on basic physical and chemical properties	
	Appearance	White granular powder
	Odour	Odourless
	Odour threshold	No data available
	pH	No data available
	Melting point / Freezing point	253 °C
	Initial boiling point and boiling range	400 °C
	Flash point	No data available
	Evaporation rate	No data available
	Flammability (solid, gas)	No data available
	Upper/lower flammability or explosive limits	No data available
	Vapour pressure	No data available
	Vapour density	No data available
	Relative density	2.34
	Water solubility	22 g in 100 g of water
	Partition coefficient: n- octanol/water	No data available
	Auto-ignition temperature	No data available
	Decomposition temperature	No data available
	Viscosity	No data available
	Explosive properties	No data available
	Oxidizing properties	No data available
9.2	Other safety information	
	No data available	

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
No incompatibility data found
- 10.6 Hazardous decomposition products
Phosphorus oxides may form when heated to decomposition.
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
Potassium phosphate monobasic:
LD50 > 4640 mg/kg skin rabbit

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity
No data available

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

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

No data available

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			
	ARD/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)			
	ARD/RID: -	IMDG: -	IATA: -	
14.4	Packing group			
	ARD/RID: -	IMDG: -	IATA: -	
14.5	Environmental hazards			
	ARD/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.

SECTION 16: REGULATORY INFORMATION

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Heliopotasse shall not be held liable for any damage resulting from handling or from contact with the above product.