



SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

Potassium Dihydrogen Phosphate

Section 1: Identification of the substance/ mixture and of the company/ undertaking.

1.1 Product identifier

Product name	Potassium Dihydrogen Phosphate
Other names	
CAS No.	7778-77-0
Index No.	
EC No.	231-913-4
Product code	0004245

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

Product use	Laboratory chemicals, manufacture of substances, Scientific R&D
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1.3 Details of the supplier of the safety data sheet

Company	Breckland Scientific Supplies Ltd	
Address	Antom Court, Tollgate Drive, Stafford, ST16 3AF	
Web	www.brecklandscientific.co.uk	
Telephone	01785 227 227	
Fax	01785 227 444	
Email	msds@brecklandscientific.co.uk	
Emergency telephone	08:30-17:00 24hrs	01785 227227 112

Section 2: Hazards identification

2.1 Classification of the substance or mixture

2.1.1 Classification - 67/548/EEC	Not a hazardous substance or mixture
2.1.2 Classification – EC 1272/2008	

2.2 Label elements

Hazard Pictograms	
Signal word	
Hazard statement	: Not a hazardous substance or mixture
Precautionary statement	

Section 3: Composition/information on ingredients

3.1 Substances

67/548/EEC/1999/45/EC

Chemical name	Index No.	CAS No.	EINECS No.	Classification	Conc
Potassium Dihydrogen Phosphate		7778-77-0	231-913-4		98

EC 1272/2008

Chemical name	Index No.	CAS No.	EINECS No.	Classification	Conc
Potassium Dihydrogen Phosphate		7778-77-0	231-913-4	Not a hazardous substance or mixture	98

Section 4: First aid measures

4.1 Description of first aid measures

Inhalation:	Move the exposed person to fresh air. If breathing stops, provide artificial respiration.
Eye contact:	Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention.
Skin contact:	Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash off immediately with plenty of soap and water. Seek medical attention if irritation or symptoms persist.
Ingestion:	DO NOT INDUCE VOMITING. Never give anything by mouth to an unconscious person. Rinse mouth thoroughly. Seek medical attention.
General information:	If you feel unwell, seek medical advice (show the label where possible).

Section 5: Firefighting measures

5.1 Extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment
5.2 Special hazards arising from substances or mixture	No data available
5.3 Advice for firefighters	Wear suitable respiratory equipment when necessary

Section 6: Accidental release measures

6.1 Personal precaution, protective equipment and emergency procedures	Wear suitable protective clothing. Avoid breathing vapours, mist or gas. Avoid formation of dust. Ensure adequate ventilation of the working area. Evacuate personnel to a safe area.
6.2 Environmental precautions	Prevent further spillage if safe. Do not allow product to enter drains
6.3 Methods and materials for containments and cleaning up	Avoid raising dust. Sweep up. Transfer to suitable, labelled containers for disposal.

Section 7: Handling and storage

7.1 Precautions for safe handling	Handle in accordance with good industrial hygiene and safety practice. Avoid formation of dust. Ensure adequate ventilation of the working area.
7.2 Conditions for safe storage including any incompatibilities.	Store in a cool, dry area. Keep container tightly closed.

Section 8: Exposure controls/ personal protection

8.1 Control parameters

8.1.1 Exposure limit values

Potassium Dihydrogen Phosphate CAS No: 7778-77-0	Long Term (8hr TWA)	Short term (15min period STEL)
ppm	N/A	N/A
Mg/m ³	N/A	N/A

8.2 Exposure controls

Appropriate engineering controls	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the working day. Ensure adequate ventilation of the working area.
Eye/ face protection	Approved safety glasses. Face shield where appropriate.
Skin/ hand protection	Wear suitable protective clothing and gloves.
Respiratory protection	Where risk assessment shows it is necessary, use a dust mask type or breathing apparatus.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

State:	Solid
Colour:	White
Melting point °C:	252.6
Boiling point °C:	>450
Relative density g/cm ³ :	2.338
Chemical formula:	KH ₂ PO ₄
Molecular weight g/mol:	136.09

Section 10: Stability and reactivity

10.1 Reactivity	No data available
10.2 Chemical stability	Stable under normal conditions
10.3 Possibility of hazardous reactions	No data available
10.4 Conditions to avoid	No data available
10.5 Incompatible materials	No data available
10.6 Hazardous decomposition products	No data available

Section 11: Toxicological information

11.1 Information on toxicological effects:

Acute toxicity	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available

11.4 Toxicological information

Potassium Dihydrogen Phosphate	Oral Rat LD50 mg/kg: 2000
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Section 12: Ecological information

12.1 Toxicity

Toxicity to daphnia and other aquatic vertebrates

Potassium Dihydrogen Phosphate	EC50 Daphnia magna: No data available (Water flea) mg/l - 48hr
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Section 13: Disposal considerations

General information	Dispose of in compliance with all local and national regulations.
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Disposal methods	Contact a licensed waste disposal company. Dispose of this material and its container to hazardous or special waste collection point
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Section 14: Transport information

ARD/RID

14.1. UN Number:

ADR/RID:

IMDG:

IATA:

14.2 UN Proper shipping name: Potassium Dihydrogen Phosphate

14.3. Transport hazard class(es): N/A

14.4. Packing group:

14.5 Environmental hazards:

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

Section 15: Regulatory information

15.1 Safety, health and environmental regulations/ legislation specific for the substance or mixture

Regulations	Labelling according to Regulation (EC) No 1272/2008.
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Section 16: Other information

16.1: Other information

Text of risk phrases in Section 3

Not a hazardous substance or mixture

Not a hazardous substance or mixture

Text of hazard statements in Section 3

Not a hazardous substance or mixture

16.2 Further information

Further information	<p>The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials. Breckland Scientific Supplies Limited will not be held liable for any damage or injury caused by this product and does not obviate the requirement for end users to carry out their own workplace and specific use risk assessment.</p>
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