Safety Data Sheet

according to Regulation (EU) 2015/830 Date of issue: 12/09/2012 Revision date 21/02/2018 P0574

Version: 2.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier	
Product form	: Substance
Trade name	: Potassium dihydrogenphosphate cryst.
EC-No.	: 231-913-4
CAS-No.	: 7778-77-0
REACH registration No	: 01-2119490224-41-xxxx
Product code	: P0574
Formula	: KH2PO4
Synonyms	: Kaliumbiphosphat Kaliumdihydrogenphosphat Monobasic potassium phosphate.
Product group	: Raw material

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

1.2.1. Relevant identified uses	
Main use category	: Professional use
Industrial/Professional use spec	· For professional use only. Duchofa Bieche

Industrial/Professional use spec : For professional use only. Duchefa Biochemie B.V. products are intended only for "in vitro laboratory" research purposes.

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier

Duchefa Biochemie B.V. A. Hofmanweg 71 2031 BH Haarlem - The Netherlands T +31(0)23-5319093 - F +31(0)23-5318027 info@duchefa.nl

1.4. Emergency telephone number

Emergency number

: Supplier contact information:

+31(0)23-5319093 (M-F 09:00-17:00)

+31(0)6-30109355 (outside office hours)

Organisation/Company	Address	Comment
World Health Organization world directory of poison centres	http://apps.who.int/poisoncentres/	Consult website for a local poison centre

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

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2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Name	: Potassium dihydrogenphosphate cryst.
CAS-No.	: 7778-77-0
EC-No.	: 231-913-4
-	

Name	Product identifier	%
Potassium dihydrogenphosphate	(CAS-No.) 7778-77-0	> 98
	(EC-No.) 231-913-4	

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation	: Move to fresh air.
First-aid measures after skin contact	: Wash skin with mild soap and water.
First-aid measures after eye contact	: Rinse with water.
First-aid measures after ingestion	: Rinse mouth.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects : Ingestion may cause nausea, vomiting and diarrhea.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures				
5.1. Extinguishing media Suitable extinguishing media	 Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2). Water spray. 			
5.2. Special hazards arising from Hazardous decomposition products in case of fire		emits toxic fumes:		
5.3. Advice for firefightersFirefighting instructionsProtection during firefighting	: Avoid (reject) fire-fighting water : Wear proper protective equipme			
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures

: Wear suitable protective clothing.

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

: Sweep up dry powder and dispose properly.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Handle in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

: Store in dry, well-ventilated area Store at ambient temperature.

7.3. Specific end use(s)

For professional use only. Duchefa Biochemie B.V. products are intended only for "in vitro laboratory" research purposes.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Potassium dihydrogenphosphate cryst. (7778-77-0)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, inhalation	4,07 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, inhalation	3,04 mg/m ³
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. Exposure controls	

Hand protection:

Туре	Material	Permeation	Thickness (mm)	Standard
Gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	0,11	EN 374

Eye protection:

Safety glasses (to European standard EN 166 or equivalent)

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Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Where excessive dust may result, wear approved mask. Type P1 (EN 143)

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Appearance Molecular mass Colour	 Solid Crystals. 136,08 g/mol White to off-white.
Odour Odour threshold pH Relative evaporation rate (butylacetate=1)	 Odourless. No data available ≈ 4,4 (50 g/l, 20 °C) No data available
Melting point Freezing point Boiling point Flash point Auto-ignition temperature Decomposition temperature Flammability (solid, gas) Vapour pressure Relative vapour density at 20 °C Relative density Density Solubility	 No data available ≈ 253 °C No data available Wo data available No data available No data available Wo data available No data available No data available No data available 2,34 g/cm³ Water: ≈ 220 g/l (20 °C)
Log Pow Viscosity, kinematic Viscosity, dynamic Explosive properties Oxidising properties Explosive limits 9.2. Other information	 No data available
Bulk density	: 1200 - 1400 kg/m³

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No additional information available

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10.4. Conditions to avoid

Overheating Water, humidity.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

When heated to decomposition, emits dangerous fumes:

- Phosphorus oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: Not classified	
Potassium dihydrogenphosphate cryst. (7778-77-0)		
LD50 dermal rabbit	> 4640 mg/kg	
Skin corrosion/irritation	: Not classified	
	pH: ≈ 4,4 (50 g/l, 20 °C)	
Serious eye damage/irritation	: Not classified	
	pH: ≈ 4,4 (50 g/l, 20 °C)	
Respiratory or skin sensitisation	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Reproductive toxicity	: Not classified	
STOT-single exposure	: Not classified	
STOT-repeated exposure	: Not classified	
Aspiration hazard	: Not classified	
Other information	: See actual entry in RTECS for complete information: TC6615500.	

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

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12.6. Other adverse effects

Additional information

: Prevent entry to sewers and public waters. Avoid release to the environment

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

: This product is not hazardous. Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: Transport information

In accordance with ADN / ADR / IATA

ADR	ΙΑΤΑ	ADN
14.1. UN number		
Not regulated	Not regulated	Not applicable
14.2. UN proper shipping name		
Not regulated	Not regulated	Not applicable
Not regulated	Not regulated	Not applicable
14.3. Transport hazard class(es)		
Not regulated	Not regulated	Not applicable
Not regulated	Not regulated	Not applicable
14.4. Packing group		
Not regulated	Not regulated	Not applicable
14.5. Environmental hazards		
Not regulated	Not regulated	Not applicable
No supplementary information available		

14.6. Special precautions for user

Overland transport

Not regulated

- Air transport

Not regulated

- Inland waterway transport

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Potassium dihydrogenphosphate cryst. is not on the REACH Candidate List Potassium dihydrogenphosphate cryst. is not on the REACH Annex XIV List

15.1.2. National regulations

Ensure all national/local regulations are observed.

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Germany

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Reference t	to AwSV	: Water hazard class (WGK) 1, low hazard to waters (Classification according to VwVwS, Annex 3; ID No. 8173)
12th Ordina 12.BImSch	ance Implementing the Federal Immission Control Act - V	: Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)
Netherland	ls	
SZW-lijst va	an kankerverwekkende stoffen	: The substance is not listed
SZW-lijst va	an mutagene stoffen	: The substance is not listed
NIET-limitat	tieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: The substance is not listed
NIET-limitat Vruchtbaarl	tieve lijst van voor de voortplanting giftige stoffen – heid	: The substance is not listed
NIET-limitat	tieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: The substance is not listed
15.2. Ch	emical safety assessment	
No addition	al information available	

No additional information available

SECTION 16: Other information

Indication of changes:

1.4	Emergency number	Modified	
8.1	Long-term - systemic effects, inhalation	Added	
8.1	Long-term - systemic effects, inhalation	Added	
8.1	PNEC aqua (freshwater)	Added	
8.1	PNEC aqua (marine water)	Added	
8.1	PNEC aqua (intermittent, freshwater)	Added	
8.1	PNEC sewage treatment plant	Added	
8.2	Hand protection	Modified	Specified material, thickness, et cetera of gloves

Abbreviations and acronyms:

Acute Toxicity Estimate		
European Agreement concerning the International Carriage of Dangerous Goods by Road		
Bioconcentration factor		
Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008		
Dangerous Preparations Directive 1999/45/EC		
Dangerous Substances Directive 67/548/EEC		
International Air Transport Association		
International Maritime Dangerous Goods		
Median lethal concentration		
Median lethal dose		
Lowest Observed Adverse Effect Level		
No-Observed Adverse Effect Concentration		
Persistent Bioaccumulative Toxic		
Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006		
Safety Data Sheet		

Data sources

: Supplier.

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product