



**Buffer solution pH 7.00 (20°C)**

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

**2.2. Label elements**

**REGULATION (EC) No 1272/2008**

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

**2.3. Other hazards**

Results of PBT and vPvB assessment, see chapter 12.5.

**SECTION 3: Composition/information on ingredients**

**3.1. Substance**

Not applicable

**3.2. Mixture**

Chemical name	CAS-No. Index-No. REACH Registration Number EC-No.	Classification 1272/2008	Concentration	Remarks
Potassium dihydrogenorthophosphate	7778-77-0 231-913-4		0,35 %	N.C.*
Disodium hydrogenorthophosphate	7558-79-4 231-448-7		0,73 %	N.C.*

N.C.\* - Non-hazardous substance - for information only

Remaining components of this product are non-hazardous and/or are present at concentrations below reportable limits.

Occupational Exposure Limit(s), if available, are listed in Section 8.  
For the full text of the H-Statements mentioned in this Section, see Section 16.

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**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

*General advice:*

First aider needs to protect himself. Move out of dangerous area. Take off all contaminated clothing immediately.

*Inhalation:*

If inhaled, remove to fresh air. Call a physician if irritation develops or persists.

*Skin contact:*

Wash off immediately with plenty of water.

*Eye contact:*

Immediately flush eye(s) with plenty of water. If eye irritation persists, consult a specialist.

*Ingestion:*

When swallowed, allow water to be drunk. Call a physician immediately.

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

No data available

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

Treat symptomatically.

See Section 11 for more detailed information on health effects and symptoms.

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**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

*Suitable extinguishing media:*

Water mist  
Carbon dioxide (CO<sub>2</sub>)  
Foam  
Dry powder

*Extinguishing media which shall not be used for safety reasons:*

High volume water jet

**5.2. Special hazards arising from the substance or mixture**

The product itself does not burn.

**5.3. Advice for firefighters**

In the event of fire, wear self-contained breathing apparatus.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Do not use a solid water stream as it may scatter and spread fire.

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**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation.

**6.2. Environmental precautions**

Should not be released into the environment. Prevent further leakage or spillage if safe to do so.

**6.3. Methods and materials for containment and cleaning up**

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Pick for disposal in tightly closed containers

**6.4. Reference to other sections**

For personal protection see section 8.

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**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

*Advice on safe handling:*

Exhaust ventilation at the object is necessary. Wear personal protective equipment. Never return unused material to storage receptacle. Protect from contamination.

*Advice on protection against fire and explosion:*

No special precautions required. Normal measures for preventive fire protection.

*Hygiene measures:*

When using do not eat or drink. When using do not smoke.

**7.2. Conditions for safe storage, including any incompatibilities**

*Requirements for storage areas and containers:*

Keep in original packaging, tightly closed.

*Further information on storage conditions:*

Do not leave vessels/containers open Avoid product residues in/on containers. Protect from extreme heat and cold.

**7.3. Specific end use(s)**

no additional data available

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

**8.1. Control parameters**

**Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

**DNEL/ PNEC-Values**

Component	End-use/impact	Exposure duration	Value	Exposure routes	Remarks
Potassium dihydrogenorthophosphate	Workers / Long-term systemic		14,82 mg/m <sup>3</sup>	Inhalation	

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	effects				
Potassium dihydrogenorthophosphate	Consumers / Long-term systemic effects		6,35 mg/m3	Inhalation	
Potassium dihydrogenorthophosphate	Consumers / Long-term systemic effects		70mg/kg bw/d	Oral	
Disodium hydrogenorthophosphate	Workers / Long-term systemic effects		4,07 mg/m3	Inhalation	
Disodium hydrogenorthophosphate	Consumers / Long-term systemic effects		3,04 mg/m3	Inhalation	

Component	Environmental compartment / Value	Remarks
Potassium dihydrogenorthophosphate	:	No data available
Disodium hydrogenorthophosphate	Fresh water: 0,05 mg/l	
Disodium hydrogenorthophosphate	Marine water: 0,005 mg/l	
Disodium hydrogenorthophosphate	Sewage treatment plant: 50 mg/l	

**8.2. Exposure controls**

**Occupational exposure controls**

Do not breathe vapour.

The Personal Protective Equipment must be in accordance with EN standards:respirator EN 136, 140, 149; safety glasses EN 166; protective suit: EN 340, 463, 468, 943-1, 943-2; gloves EN 374, 511; safety shoes EN-ISO 20345.

**Engineering measures**

Ensure adequate ventilation.

**Personal protective equipment**

*Respiratory protection:*

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In the case of vapour formation use a respirator with an approved filter.

### *Hand protection:*

Glove material: Natural Latex

Glove thickness: 0,6 mm

Lapren®706

Gloves must be inspected prior to use.

Replace when worn.

Remarks: Supplementary note: The specifications are based on information and tests from similar substances by analogy.

Due to varying conditions ( e.g.temperature or other strains) it must be considered that the usage of a chemical protective glove in practice may be much shorter than the permeation time determined in accordance with EN 374.

Since actual conditions of practical use often deviate from standardised conditions according EN 374 the glove manufacturer recommends to use the chemical protective glove in practice not longer than 50% of the recommended permeation time.

Manufacturer's directions for use should be observed because of great diversity of types .

Suitable gloves tested according EN 374 are supplied e.g. from KCL GmbH, D-36124 Eichenzell, Vertrieb@kcl.de

### *Eye protection:*

Tightly fitting safety goggles

### *Skin and body protection:*

Lab coat

## **Environmental exposure controls**

Handle in accordance with local environmental regulations and good industrial practices.

## **SECTION 9: Physical and chemical properties**

### **9.1. Information on basic physical and chemical properties**

Physical state	:	liquid
Colour	:	colourless
Odour	:	odourless
Melting point/range	:	< 0 °C

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Boiling point/boiling range	: ca. 100 °C
Flammability	: Not applicable
Upper explosion limit	: Not applicable
Lower explosion limit	: Not applicable
Flash point	: does not flash
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No decomposition if used as directed.
pH	: 7 (undiluted)
Auto-ignition temperature	: not auto-flammable
Viscosity, kinematic	: No data available
Water solubility	: completely miscible
Partition coefficient: n-octanol/water	: No data available
Vapour pressure	: similar to water
Density	: ca. 1 g/cm <sup>3</sup>
Bulk density	: Not applicable
Relative vapour density	: No data available

**9.2 Other Information**

Oxidizing properties	: The substance or mixture is not classified as oxidizing.
Evaporation rate	: No data available



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Viscosity, dynamic : No data available

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**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

Stable under normal conditions.

**10.2. Chemical stability**

No decomposition if used as directed.

**10.3. Possibility of hazardous reactions**

Hazardous polymerisation does not occur.

**10.4. Conditions to avoid**

Protect from extreme heat and cold.

**10.5. Incompatible materials**

No dangerous reaction known under conditions of normal use.

**10.6. Hazardous decomposition products**

Possible in traces  
Phosphorus compounds

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**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

*Acute oral toxicity:*  
No data available

*Acute dermal toxicity:*  
No data available

*Acute inhalation toxicity:*  
No data available

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*Skin irritation:*

No data available

*Eye irritation:*

No data available

*Respiratory or skin sensitisation:*

No data available

*Aspiration hazard:*

No data available

**11.2. Information on other hazards**

Endocrine disrupting properties

No data available

*Other information:*

The product has not been tested. The information is derived from the properties of the individual components.

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**SECTION 12: Ecological information**

**12.1. Toxicity**

*Toxicity to fish:*

No data available

*Toxicity to aquatic plants:*

No data available

*Toxicity to aquatic invertebrates:*

No data available

**12.2. Persistence and degradability**

No data available

**12.3. Bioaccumulative potential**

No data available

**12.4. Mobility in soil**

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No data available

**12.5. Results of PBT and vPvB assessment**

No data available

**12.6. Endocrine disrupting properties**

No data available

**12.7. Other adverse effects**

The methods for determining biodegradability are not applicable to inorganic substances.  
The product has not been tested. The information is derived from the properties of the individual components.

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**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

*Product:*

Dispose according to legal requirements.

*Packaging:*

Legal requirements are to be considered in regard of reuse or disposal of used packaging materials

*Further information:*

Provisions relating to waste:  
EC Directive 2006/12/EC; 2008/98/EEC  
Regulation No. 1013/2006

For personal protection see section 8.

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**SECTION 14: Transport information**

**14.1 UN number**

ADR/RID:Not dangerous goods    IMDG:Not dangerous goods    IATA:Not dangerous goods

**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)**

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**14.4 Packaging group**

**14.5 Environmental hazards**

ADR/RID: no Marine pollutant: no

**14.6 Special precautions for user**

No data available

**14.7 Maritime transport in bulk according to IMO instruments**

No data available

**SECTION 15: Regulatory information**

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

Basis	Value	Remarks
Directive 2012/18/EC SEVESO III		Not applicable
Substances of very high concern (SVHC)		This product does not contain substances of very high concern according to Regulation (EC) No Article 57 above the respective regulatory 1907/2006 (REACH), concentration limit of $\geq 0.1$ % (w/w).

**VOC:**

Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control), 0 %

**VOC:**

Directive 2004/42/EC, 0 %

**Poison Control Center**

Country	Phone Number
Austria	+4314064343
Belgium	070 245245

Country	Phone Number
Liechtenstein	+41 442515151
Lithuania	+370532362052

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Bulgaria	(+359)29154233
Croatia	(+3851)23-48-342
Cyprus	+357 2240 5611
Czech Republic	+420224919293; +420224915402
Denmark	82121212
Estonia	16662; (+372)6269390
Finland	9471977
France	+33(0)145425959
Greece	+30 210 779 3777
Hungary	(+36-80)201-199
Iceland	5432222
Ireland	+353(1)8092166
Italy	0382 24444
Germany	Berlin : 030/19240
	Bonn : 0228/19240
	Erfurt : 0361/730730
	Freiburg : 0761/19240
	Göttingen : 0551/19240
	Homburg : 06841/19240
	Mainz : 06131/19240
Munich : 089/19240	
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Netherlands	030-2748888
Norway	22591300
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Portugal	800250250
Romania	+40 21 318 3606
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Slovenia	+386 1 400 6051
Spain	+34915620420
Sweden	112 (begär Gifftinformation); +46104566786
Switzerland	145
United Kingdom	(+44) 844 892 0111

**Other inventory information**

US. Toxic Substances Control Act  
On TSCA Inventory

Australia. Industrial Chemicals Act (AIIC), as amended  
On the inventory, or in compliance with the inventory

Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL)  
All components of this product are on the Canadian DSL

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Japan. Kashin-Hou Law List

On the inventory, or in compliance with the inventory

Korea. Existing Chemicals Inventory (KECI)

On the inventory, or in compliance with the inventory

Philippines. Inventory of Chemicals and Chemical Substances (PICCS)

On the inventory, or in compliance with the inventory

China. Inventory of Existing Chemical Substances (IECSC)

On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand

On the inventory, or in compliance with the inventory

Taiwan Chemical Substance Inventory (TCSI)

On the inventory, or in compliance with the inventory

**15.2 Chemical safety assessment**

A Chemical Safety Assessment has not been carried out.

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**SECTION 16: Other information**

**Further information**

All directives and regulations refer to amended versions.

Vertical lines in the left hand margin indicate a relevant amendment from the previous version.

Abbreviations:

EC European Community

CAS Chemical Abstracts Service

DNEL Derived no effect level

PNEC Predicted no effect level

vPvB Very persistent and very bioaccumulative substance

PBT Persistent, bioaccumulative und toxic substance

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not

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to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user.

This information should not constitute a guarantee for any specific product properties.

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