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SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006 Version 8.2 Revision Date 18.03.2021 Print Date 08.10.2021 GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA - NO OEL DATA

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

1.1		:	Potassium dihydrogen phosphate cryst. EMPROVE® EXPERT Ph Eur, BP, JPC, NF	
	Catalogue No. Brand	:	<ul><li>1.37039</li><li>137039</li><li>Millipore</li><li>A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.</li></ul>	
1.2	2 Relevant identified uses of the substance or mixture and uses advised against			
	Identified uses	:	Pharmaceutical production, Cosmetic raw material	
1.3	Details of the supplier of the safety data sheet			
	Company	:	Sigma-Aldrich Chemie GmbH Eschenstrasse 5 D-82024 TAUFKIRCHEN	
	Fax	:	+49 (0)89 6513-1130 +49 (0)89 6513-1161 technischerservice@merckgroup.com	
1.4	Emergency telephone	mergency telephone		
	Emergency Phone #	:	0800 181 7059 (CHEMTREC Deutschland) +49 (0)696 43508409 (CHEMTREC weltweit)	

#### 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.

#### 2.2 Label elements

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

#### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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

#### 3.1 Substances

Molecular weight : 136,09 g/mol

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

After inhalation: fresh air.

#### In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

#### In case of eye contact

After eye contact: rinse out with plenty of water. Remove contact lenses.

#### If swallowed

After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

- **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 extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

# **5.2** Special hazards arising from the substance or mixture Oxides of phosphorus

Potassium oxides Not combustible. Ambient fire may liberate hazardous vapours.

## **5.3** Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

#### 5.4 Further information

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

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

- **6.1 Personal precautions, protective equipment and emergency procedures** Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert. 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** Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.
- **6.4 Reference to other sections** For disposal see section 13.

#### **SECTION 7: Handling and storage**

- **7.1 Precautions for safe handling** For precautions see section 2.2.
- 7.2 Conditions for safe storage, including any incompatibilities
  - Storage conditions

Tightly closed. Dry.

Recommended storage temperature see product label.

**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

Ingredients with workplace control parameters

8.2 Exposure controls

#### 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). Safety glasses

#### **Skin protection**

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Full contact

Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested:KCL 741 Dermatril® L

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This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Splash contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested:KCL 741 Dermatril® L

#### **Respiratory protection**

required when dusts are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system. Recommended Filter type: Filter type P1

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

#### **Control of environmental exposure**

Do not let product enter drains.

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

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

	•			
a)	Appearance	Form: solid Color: colorless		
b)	Odor	odorless		
c)	Odor Threshold	Not applicable		
d)	рН	4,2 - 4,6 at 20,0 g/l at 20,0 °C		
e)	Melting point/freezing point	Melting point: 252,6 °C		
f)	Initial boiling point and boiling range	450 °C at 1.013 hPa - Regulation (EC) No. 440/2008, Annex, A.2		
g)	Flash point	Not applicable		
h)	Evaporation rate	No data available		
i)	Flammability (solid, gas)	No data available		
j)	Upper/lower flammability or explosive limits	No data available		
k)	Vapor pressure	< 0,1 hPa at 25 °C - Regulation (EC) No. 440/2008, Annex, A.4		
I)	Vapor density	No data available		
m)	Relative density	2,33 at 21,5 °C - Regulation (EC) No. 440/2008, Annex, A.3		
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	n)	Water solubility	208 g/l at 20 °C - Regulation (EC) No. 440/2008, Annex, A.6- completely soluble			
	o)	Partition coefficient: n-octanol/water	- Not applicable for inorganic substances			
	p)	Autoignition temperature	No data available			
	q)	Decomposition temperature	No data available			
	r)	Viscosity	Viscosity, kinematic: No data available Viscosity, dynamic: No data available			
	s)	Explosive properties	No data available			
	t)	Oxidizing properties	No data available			
9.2	Otl	ner safety informatio	on			
		Bulk density	ca.1.200 kg/m3			
		Particle size	< 0,045 mm - Mean particle size			
SEC	ION	10: Stability and re	activity			
10.1		<b>activity</b> data available				
10.2		emical stability e product is chemically	stable under standard ambient conditions (room temperature) .			
10.3	<b>0.3 Possibility of hazardous reactions</b> Violent reactions possible with: Strong oxidizing agents Bases acids					
10.4	10.4 Conditions to avoid Strong heating (decomposition). no information available					
10.5		c <b>ompatible materials</b> data available	3			
<b>10.6 Hazardous decomposition products</b> In the event of fire: see section 5						
SECT	ION	N 11: Toxicological in	oformation			
11.1	Inf	ormation on toxicol	ogical effects			
	Acute toxicity LD50 Oral - Rat - female - > 2.000 mg/kg (OECD Test Guideline 420) Remarks:					
	The value is given in analogy to the following substances: dipotassium hydrogen phosphate					

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LC50 Inhalation - Rat - male and female - 4 h - > 0,83 mg/l (OECD Test Guideline 403) Remarks: (in analogy to similar products) The value is given in analogy to the following substances: sodium dihydrogen phosphate LD50 Dermal - Rabbit - male and female - > 2.000 mg/kg (OECD Test Guideline 402)

#### Skin corrosion/irritation

Skin - Rabbit Result: No skin irritation - 4 h (Draize Test) Remarks: (ECHA)

#### Serious eye damage/eye irritation

Eyes - Rabbit Result: No eye irritation - 30 s (Draize Test) Remarks: (ECHA)

**Respiratory or skin sensitization** No data available

#### Germ cell mutagenicity

Micronucleus test Human lymphocytes Result: negative In vitro mammalian cell gene mutation test mouse lymphoma cells Result: negative Remarks: (ECHA)

#### Carcinogenicity

IARC: No ingredient 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

#### **11.2 Additional Information**

Not available

irritant effects, Discomfort, Nausea, Diarrhea, Vomiting, gastric pain To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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Hazardous properties cannot be excluded but are unlikely when the product is handled appropriately.

Inhalation of the dusts should be avoided as even inert dusts may impair respiratory organ functions.

Handle in accordance with good industrial hygiene and safety practice.

#### **SECTION 12: Ecological information**

#### **12.1 Toxicity**

Toxicity to fish	semi-static test LC50 - Oncorhynchus mykiss (rainbow trout) - > 100 mg/l - 96 h (OECD Test Guideline 203)
Toxicity to daphnia and other aquatic invertebrates	static test EC50 - Daphnia magna (Water flea) - > 100 mg/l $$ - 48 h (OECD Test Guideline 202)
Toxicity to algae	static test ErC50 - Desmodesmus subspicatus (green algae) - > 100 mg/l - 72 h (OECD Test Guideline 201)
Toxicity to bacteria	static test EC50 - activated sludge - > 1.000 mg/l - 3 h (OECD Test Guideline 209)
	static test NOEC - activated sludge - > 1.000 mg/l - 3 h (OECD Test Guideline 209)

#### **12.2** Persistence and degradability

The methods for determining the biological degradability are not applicable to inorganic substances.

#### **12.3 Bioaccumulative potential** Does not bioaccumulate.

### 12.4 Mobility in soil

No data available

#### 12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

#### **12.6 Other adverse effects**

No data available

#### **SECTION 13: Disposal considerations**

#### **13.1 Waste treatment methods**

#### Product

See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

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SECTION 14: Transport information							
<b>14.1 UN number</b> ADR/RID: -	IMDG: -	IATA: -					
14.2 UN proper shipping nameADR/RID:Not dangerous goodsIMDG:Not dangerous goodsIATA:Not dangerous goods							
14.3 Transport hazard class( ADR/RID: -	( <b>es)</b> IMDG: -	IATA: -					
14.4 Packaging group ADR/RID: -	IMDG: -	IATA: -					
<b>14.5 Environmental hazards</b> ADR/RID: no	IMDG Marine pollutant: no	IATA: no					
14.6 Special precautions for user							

#### Further information

Not classified as dangerous in the meaning of transport regulations.

#### SECTION 15: Regulatory information

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

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

#### **National legislation**

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. : Not applicable

#### **15.2 Chemical Safety Assessment**

For this product a chemical safety assessment was not carried out

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#### **SECTION 16: Other information**

#### **Further 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. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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