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SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006 Version 8.3 Revision Date 18.03.2021 Print Date 04.10.2021 GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA - NO OEL DATA

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

1.1	Product identifiers Product name	:	Potassium chloride EMPROVE® EXPERT Pl Eur, BP, USP, JP	
	Catalogue No. Brand	:	1.37009 137009 Millipore 01-2119539416-36-XXXX 7447-40-7	
1.2	Relevant identified uses of the substance or mixture and uses advised against			
	Identified uses	:	Pharmaceutical production	
1.3	Details of the supplier of the safety data sheet			
	Company	:	Sigma-Aldrich Chemie GmbH Eschenstrasse 5 D-82024 TAUFKIRCHEN	
	Telephone Fax E-mail address	:	+49 (0)89 6513-1130 +49 (0)89 6513-1161 technischerservice@merckgroup.com	
1.4	Emergency 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

Formula	:	KCI
Molecular weight	:	74,56 g/mol
CAS-No.	:	7447-40-7
EC-No.	:	231-211-8

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

Hydrogen chloride gas Potassium oxides Not combustible. Fire may cause evolution of: Hydrogen chloride gas Ambient fire may liberate hazardous vapours.

### 5.3 Advice for firefighters

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

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# 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.

### **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.

# Storage stability

Recommended storage temperature 15 - 25 °C

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

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### **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

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

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: white
b)	Odor	odorless
c)	Odor Threshold	Not applicable
d)	рН	5,5 - 8,5 at 50,0 g/l at 20,0 °C
e)	Melting point/freezing point	Melting point: 770 °C
f)	Initial boiling point and boiling range	1.413 °C at 1.013 hPa
g)	Flash point	Not applicable

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01	Other safety information				
t)	Oxidizing properties	No data available			
s)	Explosive properties	No data available			
r)	Viscosity	Viscosity, kinematic: No data available Viscosity, dynamic: No data available			
q)	Decomposition temperature	No data available			
p)	Autoignition temperature	No data available			
o)	Partition coefficient: n-octanol/water	Not applicable for inorganic substances			
n)	Water solubility	355 g/l at 25 °C			
m	) Relative density	1,98			
I)	Vapor density	No data available			
k)	Vapor pressure	No data available			
j)	Upper/lower flammability or explosive limits	No data available			
i)	Flammability (solid, gas)	The product is not flammable.			
h)	Evaporation rate	No data available			

# Solubility in other Ethan solvents

# **SECTION 10: Stability and reactivity**

# **10.1 Reactivity**

9.2

No data available

**10.2 Chemical stability** The product is chemically stable under standard ambient conditions (room temperature) .

Ethanol 4,0 g/l

- **10.3 Possibility of hazardous reactions** No data available
- **10.4 Conditions to avoid** no information available

### **10.5 Incompatible materials** Strong acids, Strong oxidizing agents

**10.6 Hazardous decomposition products** In the event of fire: see section 5

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# **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

### **Acute toxicity**

LD50 Oral - Rat - female - 3.020 mg/kg Remarks: (ECHA)

**Skin corrosion/irritation** No data available

Serious eye damage/eye irritation No data available

**Respiratory or skin sensitization** No data available

### Germ cell mutagenicity

Ames test Salmonella typhimurium Result: negative Remarks: (ECHA) In vitro mammalian cell gene mutation test mouse lymphoma cells Result: negative Remarks: (ECHA) Mutagenicity (mammal cell test): chromosome aberration. Chinese hamster lung cells Result: positive 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**

Repeated dose toxicity - Rat - male - Oral - 2 yr - NOAEL (No observed adverse effect level) - 1.820 mg/kg - LOAEL (Lowest observed adverse effect level) - 110 mg/kgRemarks: (ECHA)

Not available

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hyperkalemia, Nausea, Vomiting, Abdominal pain, Diarrhea, Constipation., Paresthesia., Thirst, Dizziness, Rash, pruritus, Weakness, muscle cramps, minor psychiatric changes, minor visual changes

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

# **SECTION 12: Ecological information**

# 12.1 Toxicity

Toxicity to fish	static test LC50 - Pimephales promelas (fathead minnow) - 880 mg/l - 96 h (OECD Test Guideline 203)
Toxicity to daphnia and other aquatic invertebrates	static test EC50 - Daphnia magna (Water flea) - 440 - 880 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)

# 12.2 Persistence and degradability

The methods for determining biodegradability are not applicable to inorganic substances.

#### **12.3 Bioaccumulative potential** No data available

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.

### **SECTION 14: Transport information**

### 14.1 UN number

ADR/RID: -

IMDG: -

IATA: -

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<b>14.2 UN proper shipping name</b> ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA: Not dangerous goods					
14.3 Transpor ADR/RID:	t hazard class(es) -	IMDG: -	IATA: -		
14.4 Packagin ADR/RID:		IMDG: -	IATA: -		
<b>14.5 Environm</b> ADR/RID:		IMDG Marine pollutant: no	IATA: no		
14.6 Special n	recautions for use	۲r			

### 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

# **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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