# Safety data Sheet

in accordance with SANS

Printing date 01.04.2022

Endress+Hauser 🖪

eople for Process Automation

Revision: 01.04.2022

# **SECTION 1: Identification of the substance or mixture and of the supplier**

Version 3 (replaces version 2)

#### Product identifier

Trade name: <u>KCI-Elektrolytlösung CPY4 3,0 mol</u> Synonym: KCl solution CPY4 3.0 M

Article number: CPY4-2 /-5

Recommended use of the chemical and restrictions on use No further relevant information available.

Application of the substance / the mixture Laboratory chemicals

Supplier's details Manufacturer/Supplier: Endress+Hauser Conducta GmbH+Co. KG Dieselstraße 24 D-70839 Gerlingen

Further information obtainable from: Phone: +49 (0)7156 209-10117 E-Mail: MSDS.PCC@endress.com

Emergency phone number +27 (0)861 555 777

# **SECTION 2: Hazard identification**

Classification of the substance or mixture

The product is not classified, according to the Globally Harmonised System (GHS).

GHS label elements GHS label elements Void Hazard pictograms Void Signal word Void Hazard statements Void Other hazards The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds or formaldehydes. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.

# **SECTION 3: Composition or information on ingredients**

#### Mixtures

Description: aqueous solution

**Dangerous components:** Void **Additional information:** For the wording of the listed hazard phrases refer to section 16.

# **SECTION 4: First-aid measures**

Description of necessary first-aid measures

General information: No special measures required.

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact: Generally the product does not irritate the skin.

After eye contact: Rinse opened eye for several minutes under running water.

After swallowing: If symptoms persist consult doctor. Most important symptoms or effects, acute and delayed No further relevant information available. (Contd. on page 2) in accordance with SANS

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Indication of immediate medical attention and special treatment needed, if necessary No further relevant information available.

# **SECTION 5: Fire-fighting measures**

Suitable extinguishing media

Suitable extinguishing agents: CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. For safety reasons unsuitable extinguishing agents: no further information Specific hazards arising from the chemical No further relevant information available. Special protective actions for fire fighters No further relevant information available. Protective equipment: No special measures required.

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

Personal precautions, protective equipment and emergency procedures *Wear protective clothing*. Environmental precautions:

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

**Reference to other sections** 

No dangerous substances are released.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

# **SECTION 7: Handling and storage**

**Precautions for safe handling** *No special measures required.* **Information about fire - and explosion protection:** *No special measures required.* 

Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: *No special requirements.* Information about storage in one common storage facility: *Not required.* Further information about storage conditions: *None.* Storage class: *12* Specific end use(s) *No further relevant information available.* 

# **SECTION 8: Exposure controls or personal protection**

**Control parameters** 

Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information: The lists valid during the making were used as basis.

Exposure controls Appropriate engineering controls *No further data; see item 7.* Individual protection measures, such as personal protective equipment (PPE)

#### General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Respiratory protection: Not required.

Hand protection No chemical-protective gloves required.

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Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

#### Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye or face protection Not required.

Body protection: Protective work clothing

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

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Information on basic physical and chemical pro	perties	
General Information		
Physical state	Fluid	
Colour:	Colourless	
Odour:	Odourless	
Odour threshold:	Not determined.	
Melting point/freezing point:	Undetermined.	
نقطة الغليان أو نقطة الغليان الأولية ونطاق الغليان	Undetermined.	
Flammability	Not applicable.	
Upper or lower flammability or explosive limits		
Lower:	Not determined.	
Upper:	Not determined.	
Flash point:	Not applicable.	
Decomposition temperature:	Not determined.	
pH at 20 °C	6.2	
Viscosity:		
Viscosity	Not determined.	
Dynamic:	Not determined.	
Solubility		
water:	Fully miscible.	
Partition coefficient: n-octanol or water	Not determined.	
Vapour pressure at 20 °C:	23 hPa	
Vapour density + Relative density	20111 0	
Density at 20 °C:	1.219 g/cm³	
Relative density	Not determined.	
Vapour density	Not determined.	
Other information		
Appearance:		
Form:	Liquid	
Important information on protection of health		
and environment, and on safety.	<b>_</b>	
Auto-ignition temperature:	Product is not selfigniting.	
Explosive properties:	Product does not present an explosion hazar	d.
	Not determined.	
Solvent content:	<b>T0</b> 0 0/	
Water:	>70.0 %	
Solids content:	0.0 %	
Change in condition		
Evaporation rate	Not determined.	
Information with regard to physical hazard		
classes		
Explosives	Void	
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Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable	•
gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

# **SECTION 10: Stability and reactivity**

Reactivity No further relevant information available. Chemical stability Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications. Possibility of hazardous reactions No dangerous reactions known. Conditions to avoid No further relevant information available. Incompatible materials: No further relevant information available. Hazardous decomposition products: No dangerous decomposition products known.

# **SECTION 11: Toxicological information**

Information on other hazards

endocrine disrupting potential

None of the ingredients is listed.

# **SECTION 12: Ecological information**

Toxicity

Aquatic toxicity: No further relevant information available. Persistence and degradability No further relevant information available. Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Endocrine disrupting properties The product does not contain substances with endocrine disrupting properties. Other adverse effects Additional ecological information: General notes: Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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## **SECTION 13: Disposal considerations**

#### Waste treatment methods

Recommendation Smaller quantities can be disposed of with household waste.

**Uncleaned packaging:** 

**Recommendation:** Disposal must be made according to official regulations. **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

# **SECTION 14: Transport information**

UN number ADN, IMDG, IATA UN proper shipping name	Void
ADR, ADN, IMDG, IATA Transport hazard class(es)	Void
ADR, ADN, IMDG, IATA	
Class	Void
Packing group	
ADR, IMDG, IATA	Void
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Not applicable.
Transport in bulk according to Annex II o	
MARPOL 73/78 and the IBC Code	Not applicable.
Transport/Additional information: UN "Model Regulation":	Not dangerous according to the above specifications. Void

# **SECTION 15: Regulatory information**

Safety, health and environmental regulations specific for the product in question GHS label elements *Void* Hazard pictograms *Void* Signal word *Void* Hazard statements *Void* 

Directive 2012/18/EU Named dangerous substances - ANNEX I None of the ingredients is listed.

National regulations:

Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

# **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Department issuing SDS:** *PCC-TWR* 

Contact: MSDS.pcc @endress.com Abbreviations and acronyms: ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

\* Data compared to the previous version altered.