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

**Product identifier** 

Trade name: KCI-Elektrolytlösung CPY4 1,5 mol

Synonym: KCl solution CPY4 1.5 M

Article number: CPY4-4-6

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



STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

# **GHS** label elements

**GHS** label elements

The product is classified and labelled according to the Globally Harmonised System (GHS).

#### **Hazard pictograms**



GHS08

#### Signal word Warning

## Hazard-determining components of labelling:

ethanediol

#### **Hazard statements**

May cause damage to organs through prolonged or repeated exposure.

#### **Precautionary statements**

Do not breathe dust/fume/gas/mist/vapours/spray.

Get medical advice/attention if you feel unwell.

Dispose of contents/container in accordance with local/regional/national/international regulations.

#### 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.

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

**Mixtures** 

**Description:** Mixture of substances listed below with nonhazardous additions.

**Dangerous components:** CAS: 107-21-1 ethanediol 🚸 STOT RE 2, H373; 아 Acute Tox. 4, H302 30-50% EINECS: 203-473-3

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

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.

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

During heating or in case of fire poisonous gases are produced.

Special protective actions for fire fighters No further relevant information available.

Protective equipment: Mount respiratory protective device.

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

#### Personal precautions, protective equipment and emergency procedures

Mount respiratory protective device.

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).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

## Reference to other sections

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

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

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Information about fire - and explosion protection: Keep respiratory protective device available.

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:

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

#### Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

#### **Hand protection**



Protective gloves

To avoid skin problems reduce the wearing of gloves to the required minimum.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. No chemical-protective gloves required.

## **Material of gloves**

Nitrile rubber, NBR

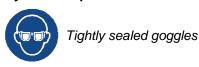
Chloroprene rubber, CR

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



Body protection: Protective work clothing

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

Information on basic physical and chemical properties

**General Information** 

Physical state Fluid
Colour: Colourless
Odour: Odourless
Odour threshold: Not determined.
Melting point/freezing point: Undetermined.
Welting point/freezing point: Undetermined.
Flammability Vot applicable.

Upper or lower flammability or explosive limits

**Decomposition temperature:** Not determined.

pH at 20 °C >6

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

Density at 20 °C:

Relative density

Vapour density

1.1 g/cm³

Not determined.

Not determined.

Other information Appearance:

Form: Fluid

Important information on protection of health

and environment, and on safety.

**Auto-ignition temperature:** Product is not selfigniting.

Explosive properties: Product does not present an explosion hazard.

Not determined.

Solvent content:

**Water:** <40.0 % **Solids content:** 0.0 %

Change in condition

**Evaporation rate**Not determined.

Information with regard to physical hazard

classes

**Explosives** Void 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

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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 hazard classes as defined in Regulation (EC) No 1272/2008 Acute toxicity

LD/LC50 values relevant for classification:		
CAS: 107-21-1 ethanediol		
Oral	LD50	5,840 mg/kg (rat)
Dermal	LD50	9,530 mg/kg (rbt)

# Specific target organ toxicity - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

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

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

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 Void

**UN** proper shipping name

ADR, ADN, IMDG, IATA Void

Transport hazard class(es)

ADR, ADN, IMDG, IATA

Class

Packing group

ADR, IMDG, IATA Void

**Environmental hazards:**Special precautions for user
Not applicable.
Not applicable.

Transport in bulk according to Annex II of

MARPOL 73/78 and the IBC Code Not applicable.

UN "Model Regulation": Void

# **SECTION 15: Regulatory information**

# Safety, health and environmental regulations specific for the product in question GHS label elements

The product is classified and labelled according to the Globally Harmonised System (GHS).

**Hazard pictograms** 



GHS08

#### Signal word Warning

# Hazard-determining components of labelling:

ethanediol

#### **Hazard statements**

May cause damage to organs through prolonged or repeated exposure.

#### **Precautionary statements**

Do not breathe dust/fume/gas/mist/vapours/spray.

Get medical advice/attention if you feel unwell.

Dispose of contents/container in accordance with local/regional/national/international regulations.

# 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.

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#### **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:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity - Category 4

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

\* Data compared to the previous version altered.