

according to Regulation (EC) No 1907/2006

# Potassium chloride solution 0.001 mol/l - 0.001 N solution

Revision date: 11.08.2023

Product code: 03335

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

### 1.1. Product identifier

Potassium chloride solution 0.001 mol/l - 0.001 N solution

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### Use of the substance/mixture

Laboratory chemicals

Industrial uses: Uses of substances as such or in preparations at industrial sites

Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

#### Uses advised against

Do not use for private purposes (household).

#### 1.3. Details of the supplier of the safety data sheet

| Company name:            | AnalytiChem GmbH                    |  |
|--------------------------|-------------------------------------|--|
| Street:<br>Place:        | Stempelstraße 6<br>D-47167 Duisburg |  |
| Telephone:               | 0203/5194-0                         | Telefax: 0203/5194-290                   |
| E-mail:                  | info@analytichem.de                 |  |
| Contact person:          | Abteilung Produktsicherheit         | Telephone: 0203/5194-107/117             |
| E-mail:                  | produktsicherheit@analytichem.de    |  |
| Internet:                | www.analytichem.de                  |  |
| Responsible Department:  | Abteilung Produktsicherheit         |  |
| 1.4. Emergency telephone | For Hazardous Materials [or Danger  | rous Goods] Incidents Spill, Leak, Fire, |
| number:                  | Exposure, or Accident Call CHEMT    | REC Day or Night Within USA and Canada:  |
|                          | 1-800-424-9300 Outside USA and 0    | Canada: +1 703-741-5970 (collect calls   |

#### Further Information

This product is a mixture. REACH Registration Number see section 3.

accepted)

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

#### Regulation (EC) No 1272/2008

This mixture is not classified as hazardous in accordance with Regulation (EC) No 1272/2008.

#### 2.2. Label elements

#### 2.3. Other hazards

No data available

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

# 3.2. Mixtures

# Chemical characterization

Mixtures in aqueous solution



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#### Hazardous components

| CAS No    | Chemical name                      |            |     |       | Quantity |
|-----------|------------------------------------|------------|-----|-------|----------|
|           | EC No                              | Index No   | REA | CH No |          |
|           | Classification (Regulation (EC) No | 1272/2008) |     |       |          |
| 7447-40-7 | potassium chloride                 |            |     |       | < 0.01 % |
|           | 231-211-8                          |            |     |       |          |
|           |                                    |            |     |       |          |

#### Full text of H and EUH statements: see section 16.

| Specific Conc. Limits, M-factors and ATE |                |                           |          |  |  |
|--|----------------|---------------------------|----------|--|--|
| CAS No                                   | EC No          | Chemical name             | Quantity |  |  |
|  | Specific Conc  | Limits, M-factors and ATE |          |  |  |
| 7447-40-7                                | 231-211-8      | potassium chloride        | < 0.01 % |  |  |
|  | oral: LD50 = 0 | ca. 2600 mg/kg            |          |  |  |

#### **Further Information**

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

# **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

#### **General information**

No data available

#### After inhalation

Provide fresh air.

#### After contact with skin

Wash immediately with: Water Take off immediately all contaminated clothing and wash it before reuse.

#### After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water.

#### After ingestion

Rinse mouth immediately and drink plenty of water. Call a doctor if you feel unwell.

# 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

No data available

# **SECTION 5: Firefighting measures**

# 5.1. Extinguishing media

# Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

# Unsuitable extinguishing media

no restriction

# 5.2. Special hazards arising from the substance or mixture

Non-combustible liquids

# 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.



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#### Additional information

Use water spray jet to protect personnel and to cool endangered containers.

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

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

# For non-emergency personnel

Provide adequate ventilation. Use personal protection equipment. Avoid contact with skin, eyes and clothes. Remove persons to safety. Emergency procedures Do not breathe dust/fume/gas/mist/vapours/spray.

#### For emergency responders

Precautionary statements For emergency responders : Personal protection equipment: see section 8

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

#### 6.3. Methods and material for containment and cleaning up

#### For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

#### Other information

Provide adequate ventilation. Do not breathe dust/fume/gas/mist/vapours/spray. Wear breathing apparatus if exposed to vapours/dusts/aerosols.

#### 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

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

#### 7.1. Precautions for safe handling

#### Advice on safe handling

Keep container tightly closed. Avoid contact with skin, eyes and clothes.

# Advice on protection against fire and explosion

Usual measures for fire prevention.

# Advice on general occupational hygiene

Wash contaminated clothing prior to re-use. Do not breathe vapour/aerosol. Avoid contact with skin, eyes and clothes.

#### Further information on handling

Wash contaminated clothing before reuse. Wash hands before breaks and after work.

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

#### Requirements for storage rooms and vessels

Keep container tightly closed.

#### Hints on joint storage No data available

# Further information on storage conditions Keep container dry.



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### 7.3. Specific end use(s)

Laboratory chemicals

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

#### 8.1. Control parameters

#### **DNEL/DMEL** values

| CAS No      | Substance          |                |          |                        |
|-------------|--------------------|----------------|----------|------------------------|
| DNEL type   |                    | Exposure route | Effect   | Value                  |
| 7447-40-7   | potassium chloride |                |          |                        |
| Worker DNEL | long-term          | inhalation     | systemic | 1064 mg/m <sup>3</sup> |
| Worker DNEL | acute              | inhalation     | systemic | 5320 mg/m³             |
| Worker DNEL | long-term          | dermal         | systemic | 303 mg/kg bw/day       |
| Worker DNEL | acute              | dermal         | systemic | 910 mg/kg bw/day       |
| Consumer DN | EL, long-term      | inhalation     | systemic | 273 mg/m³              |
| Consumer DN | EL, acute          | inhalation     | systemic | 1365 mg/m³             |
| Consumer DN | EL, long-term      | dermal         | systemic | 182 mg/kg bw/day       |
| Consumer DN | EL, acute          | dermal         | systemic | 910 mg/kg bw/day       |
| Consumer DN | EL, long-term      | oral           | systemic | 91 mg/kg bw/day        |
| Consumer DN | EL, acute          | oral           | systemic | 455 mg/kg bw/day       |

#### **PNEC** values

| CAS No                       | Substance  |          |  |  |
|------------------------------|--|----------|--|--|
| Environmental                | Environmental compartment Value                          |          |  |  |
| 7447-40-7 potassium chloride |  |          |  |  |
| Freshwater                   | Freshwater 0,1 mg/l                                      |          |  |  |
| Freshwater (inter            | Freshwater (intermittent releases) 1 mg/l                |          |  |  |
| Marine water                 |  | 0,1 mg/l |  |  |
| Micro-organism               | Micro-organisms in sewage treatment plants (STP) 10 mg/l |          |  |  |

#### 8.2. Exposure controls

#### Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

#### Individual protection measures, such as personal protective equipment

#### Eye/face protection

goggles

#### Hand protection

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: vertrieb@kcl.de With specification (test according to EN374):

By long-term hand contact Recommended glove articles: KCL 741 Dermatril® L Recommended material: NBR (Nitrile rubber) 0,11 mm Wearing time with permanent contact: > 480 min

#### By short-term hand contact Recommended glove articles: KCL 741 Dermatril® L Recommended material: NBR (Nitrile rubber) 0,11 mm



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Wearing time with occasional contact (splashes): > 480 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. 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).

#### Skin protection

Wear suitable protective clothing.

Wash hands before breaks and after work.

#### **Respiratory protection**

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

#### **Environmental exposure controls**

Do not allow to enter into surface water or drains.

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

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

| 9.1. Information on basic physical an    |                   |                     |
|--|-------------------|---------------------|
| Physical state:                          | Liquid            |                     |
| Colour:                                  | colourless        |                     |
| Odour:                                   | odourless         |                     |
| Odour threshold:                         | No data available |                     |
| Melting point/freezing point:            |                   | No data available   |
| Boiling point or initial boiling point a | ind               | No data available   |
| boiling range:                           |                   |                     |
| Flammability:                            |                   | No data available   |
| Lower explosion limits:                  |                   | No data available   |
| Upper explosion limits:                  |                   | No data available   |
| Flash point:                             |                   | No data available   |
| Auto-ignition temperature:               |                   | No data available   |
| Decomposition temperature:               |                   | No data available   |
| pH-Value:                                |                   | No data available   |
| Viscosity / kinematic:                   |                   | No data available   |
| Water solubility:                        |                   | completely miscible |
| Solubility in other solvents             |                   |                     |
| No data available                        |                   |                     |
| Dissolution rate:                        |                   | No data available   |
| Partition coefficient n-octanol/water    |                   | No data available   |
| Dispersion stability:                    |                   | No data available   |
| Vapour pressure:                         |                   | No data available   |
| Vapour pressure:                         |                   | No data available   |
| Density:                                 |                   | ~1 g/cm³            |
| Relative density:                        |                   | No data available   |
| Bulk density:                            |                   | No data available   |
| Relative vapour density:                 |                   | No data available   |
| 9.2. Other information                   |                   |                     |
| Information with regard to physic        | al hazard classes |                     |
| Explosive properties                     |                   |                     |
| No data available                        |                   |                     |
| Sustaining combustion:                   |                   | No data available   |
| Self-ignition temperature                |                   |                     |
| Solid:                                   |                   | No data available   |
| Gas:                                     |                   | No data available   |



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| Oxidizing properties<br>No data available |                     |             |
| Other safety characteristics              |                     |             |
| Evaporation rate:                         | No data available   |             |
| Solvent separation test:                  | No data available   |             |
| Solvent content:                          | 0                   |             |
| Solid content:                            | 0                   |             |
| Sublimation point:                        | No data available   |             |
| Softening point:                          | No data available   |             |
| Pour point:                               | No data available   |             |
| No data available:                        |                     |             |
| Viscosity / dynamic:                      | No data available   |             |
| Flow time:                                | No data available   |             |
| Further Information                       |                     |             |
| Nie slede en slede                        |                     |             |

No data available

#### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No data available

#### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

# 10.3. Possibility of hazardous reactions

No data available

#### 10.4. Conditions to avoid

No data available

#### 10.5. Incompatible materials

No data available

#### 10.6. Hazardous decomposition products

No data available

#### Further information

No data available

#### **SECTION 11: Toxicological information**

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Toxicocinetics, metabolism and distribution

There are no data available on the mixture itself.

#### Acute toxicity

Based on available data, the classification criteria are not met.

#### **ATEmix calculated**

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

| CAS No    | Chemical name      |               |          |         |  |        |
|-----------|--------------------|---------------|----------|---------|--|--------|
|           | Exposure route     | Dose          |          | Species | Source   | Method |
| 7447-40-7 | potassium chloride |               |          | -       |  |        |
|           | oral               | LD50<br>mg/kg | ca. 2600 |         | J Pharmacol Exp<br>Therap 35, 1-15, 1929<br>(1 |        |



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Product code: 03335 Revision date: 11.08.2023 Page 7 of 9 Irritation and corrosivity Based on available data, the classification criteria are not met. Sensitising effects Based on available data, the classification criteria are not met. Carcinogenic/mutagenic/toxic effects for reproduction Based on available data, the classification criteria are not met. STOT-single exposure Based on available data, the classification criteria are not met. STOT-repeated exposure Based on available data, the classification criteria are not met. Aspiration hazard Based on available data, the classification criteria are not met. Information on likely routes of exposure There are no data available on the mixture itself. Specific effects in experiment on an animal There are no data available on the mixture itself. Additional information on tests There are no data available on the mixture itself. **Practical experience** There are no data available on the mixture itself. 11.2. Information on other hazards **Endocrine disrupting properties** There are no data available on the mixture itself. Other information There are no data available on the mixture itself.

#### Further information

There are no data available on the mixture itself.

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

#### 12.1. Toxicity

Based on available data, the classification criteria are not met.

| CAS No    | Chemical name           |                |          |           |                               |   |                       |
|-----------|-------------------------|----------------|----------|-----------|-------------------------------|---|-----------------------|
|           | Aquatic toxicity        | Dose           |          | [h]   [d] | Species                       | Source  | Method                |
| 7447-40-7 | potassium chloride      |                |          |           |                               |   |                       |
|           | Acute fish toxicity     | LC50           | 880 mg/l | 96 h      | Pimephales promelas           | Environmental<br>Toxicology and<br>Chemistry, | OECD Guideline<br>203 |
|           | Acute algae toxicity    | ErC50<br>mg/l  | > 100    |           | Desmodesmus<br>subspicatus    | Study report<br>(2010)                        | OECD Guideline<br>201 |
|           | Acute bacteria toxicity | (EC50<br>mg/l) | > 1000   |           | activated sludge,<br>domestic | Study report<br>(2010)                        | OECD Guideline<br>209 |

#### 12.2. Persistence and degradability

There are no data available on the mixture itself.

#### 12.3. Bioaccumulative potential

There are no data available on the mixture itself.

#### 12.4. Mobility in soil

There are no data available on the mixture itself.

## 12.5. Results of PBT and vPvB assessment



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The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

#### 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

#### 12.7. Other adverse effects

Discharge into the environment must be avoided.

#### **Further information**

There are no data available on the mixture itself.

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

#### 13.1. Waste treatment methods

#### **Disposal recommendations**

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

#### Contaminated packaging

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

No dangerous good in sense of this transport regulation.

No dangerous good in sense of this transport regulation.

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

#### Land transport (ADR/RID)

 14.1. UN number or ID number:

 14.2. UN proper shipping name:

 14.3. Transport hazard class(es):

 14.4. Packing group:

 Inland waterways transport (ADN)

 14.1. UN number or ID number:

 14.2. UN proper shipping name:

 14.3. Transport hazard class(es):

 14.4. Packing group:

 Marine transport (IMDG)

 14.1. UN number or ID number:

 14.2. UN proper shipping name:

<u>14.3. Transport hazard class(es):</u> <u>14.4. Packing group:</u> Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number:14.2. UN proper shipping name:14.3. Transport hazard class(es):

14.4. Packing group:

# 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS:

### 14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

#### 14.7. Maritime transport in bulk according to IMO instruments

No dangerous good in sense of this transport regulation.

#### **SECTION 15: Regulatory information**

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

No

#### EU regulatory information



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| Information according to 2012/18/EU<br>(SEVESO III):       | Not subject to 2012/18/EU (SEVESO III) |             |  |  |
| National regulatory information                            |  |             |  |  |
| Water hazard class (D):                                    | non-hazardous to water                 |             |  |  |
| Additional information                                     |  |             |  |  |
| No data available  |  |             |  |  |
| SECTION 16: Other information                              |  |             |  |  |

#### Changes

This data sheet contains changes from the previous version in section(s): 3,12.

#### Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material. The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)