

according to Regulation (EC) No 1907/2006

**Potassium permanganate 0.02 mol/l**

Revision: 25.02.2025

Product code: 01021

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Potassium permanganate 0.02 mol/l

UFI: QPT2-X0GC-2009-6PG2

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**

Reagents and laboratory chemicals

Only for laboratory and analysis purposes.

**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                 |                              |
|                         | ACD                              |                              |
| Street:                 | Stempelstraße 6                  |                              |
| Place:                  | 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 number:**

For Hazardous Materials [or Dangerous Goods] Incidents Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-741-5970 (collect calls accepted)

**Further Information**

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

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No 1272/2008**

Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

**2.2. Label elements****Regulation (EC) No 1272/2008****Pictograms:****Hazard statements**

H411 Toxic to aquatic life with long lasting effects.

**Precautionary statements**

P273 Avoid release to the environment.

**2.3. Other hazards**

No data available

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**SECTION 3: Composition/information on ingredients****3.2. Mixtures****Chemical characterization**

Mixtures in aqueous solution

**Relevant ingredients**

| CAS No    | Chemical name                                                                                                                                         |              |                  | Quantity |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------------|----------|
|           | EC No                                                                                                                                                 | Index No     | REACH No         |          |
|           | Classification (Regulation (EC) No 1272/2008)                                                                                                         |              |                  |          |
| 7722-64-7 | potassium permanganate                                                                                                                                |              |                  | < 1 %    |
|           | 231-760-3                                                                                                                                             | 025-002-00-9 | 01-2119480139-34 |          |
|           | Ox. Sol. 2, Repr. 2, Acute Tox. 4, Skin Corr. 1C, Eye Dam. 1, STOT RE 2, Aquatic Acute 1, Aquatic Chronic 1; H272 H361d H302 H314 H318 H373 H400 H410 |              |                  |          |

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                                                                            |                        |          |
| 7722-64-7 | 231-760-3                                                                                                           | potassium permanganate | < 1 %    |
|           | dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2000 mg/kg Aquatic Acute 1; H400: M=10<br>Aquatic Chronic 1; H410: M=10 |                        |          |

**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.

Call a doctor if you feel unwell.

**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.

Remove contact lenses, if present and easy to do. Continue rinsing.

Protect uninjured eye.

**After ingestion**

Rinse mouth immediately and drink plenty of water.

Call a physician immediately.

**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**

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**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.

Avoid contact with skin, eyes and clothes.

**Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Move undamaged containers from immediate hazard area if it can be done safely.

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

Consult an expert

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 containment**

Cover drains.

Prevent spread over a wide area (e.g. by containment or oil barriers).

Collect in closed and suitable containers for disposal.

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

**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**

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**Advice on safe handling**

Read label before use. Handle and open container with care.  
When using do not eat, drink, smoke, sniff. Use personal protection equipment.  
Provide adequate ventilation. Avoid contact with skin, eyes and clothes.  
Do not breathe vapour/aerosol.

**Advice on protection against fire and explosion**

Usual measures for fire prevention.

**Advice on general occupational hygiene**

Keep away from food, drink and animal feedingstuffs. Remove contaminated, saturated clothing immediately.  
Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink. Avoid: aerosol or mist formation Do not breathe vapour/aerosol.

**Further information on handling**

Draw up and observe skin protection programme.  
Wash hands and face before breaks and after work and take a shower if necessary.  
Take off immediately all contaminated clothing and wash it before reuse.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep container tightly closed.

**Hints on joint storage**

national regulations

**Further information on storage conditions**

storage temperature: +15°C - +25°C

**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              |
| 7722-64-7                | potassium permanganate |                |          |                    |
| Worker DNEL, long-term   |                        | inhalation     | systemic | 0,218 mg/m³        |
| Consumer DNEL, long-term |                        | inhalation     | systemic | 0,039 mg/m³        |
| Consumer DNEL, long-term |                        | oral           | systemic | 0,011 mg/kg bw/day |

**PNEC values**

| CAS No                                           | Substance              |  |
|--------------------------------------------------|------------------------|--|
| Environmental compartment                        | Value                  |  |
| 7722-64-7                                        | potassium permanganate |  |
| Freshwater                                       | 0,00006 mg/l           |  |
| Freshwater (intermittent releases)               | 0,0006 mg/l            |  |
| Micro-organisms in sewage treatment plants (STP) | 1,64 mg/l              |  |

**8.2. Exposure controls**

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**Appropriate engineering controls**

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

If handled uncovered, arrangements with local exhaust ventilation have to be used.

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

**Eye/face protection**

goggles

Wear eye/face protection.

**Hand protection**

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: [vertrieb@kcl.de](mailto: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

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](http://www.kcl.de)).

**Skin protection**

Wear suitable protective clothing. Take off immediately all contaminated clothing.

Wash hands before breaks and after work.

The choice of body protection depends on the concentration and quantity of hazardous substances. The chemical resistance of protective agents must be clarified with their suppliers.

**Respiratory protection**

Respiratory protection necessary at: aerosol or mist formation

The entrepreneur 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.

**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**

|                                                           |                   |                   |
|-----------------------------------------------------------|-------------------|-------------------|
| Physical state:                                           | Liquid            |                   |
| Colour:                                                   | violet            |                   |
| Odour:                                                    | odourless         |                   |
| Odour threshold:                                          | No data available |                   |
| Melting point/freezing point:                             |                   | No data available |
| Boiling point or initial boiling point and boiling range: |                   | No data available |
| Flammability:                                             |                   | No data available |
| Lower explosion limits:                                   |                   | No data available |

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|                                        |                           |
|----------------------------------------|---------------------------|
| Upper explosion limits:                | No data available         |
| Flash point:                           | No data available         |
| Auto-ignition temperature:             | No data available         |
| Decomposition temperature:             | No data available         |
| pH-Value:                              | 9,1                       |
| 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:                               | ~1,0025 g/cm <sup>3</sup> |
| Relative density:                      | No data available         |
| Bulk density:                          | No data available         |
| Relative vapour density:               | No data available         |
| Particle characteristics:              | No data available         |

**9.2. Other information**

**Information with regard to physical hazard classes**

Explosive properties

    No data available

Sustained combustibility:

No data available

Self-ignition temperature

    Solid:

No data available

    Gas:

No data available

Oxidizing properties

    Oxidizing

**Other safety characteristics**

Evaporation rate:

No data available

Solvent separation test:

No data available

Solvent content:

No data available

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**

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**

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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****Toxicokinetics, metabolism and distribution**

There are no data available on the mixture itself.

**Acute toxicity**

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

**ATE<sub>mix</sub> calculated**

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

| CAS No    | Chemical name          |                   |         |                     |                    |
|-----------|------------------------|-------------------|---------|---------------------|--------------------|
|           | Exposure route         | Dose              | Species | Source              | Method             |
| 7722-64-7 | potassium permanganate |                   |         |                     |                    |
|           | oral                   | LD50 > 2000 mg/kg | Rat     | Study report (2006) | EU Method B.1 tris |
|           | dermal                 | LD50 > 2000 mg/kg | Rat     | Study report (2006) | EU Method B.3      |

**Irritation and corrosivity**

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation: 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**

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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

Reproductive toxicity: 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.

**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.

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**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**

Toxic to aquatic life with long lasting effects.

| CAS No    | Chemical name           |                      |           |                                                     |                     |                |
|-----------|-------------------------|----------------------|-----------|-----------------------------------------------------|---------------------|----------------|
|           | Aquatic toxicity        | Dose                 | [h]   [d] | Species                                             | Source              | Method         |
| 7722-64-7 | potassium permanganate  |                      |           |                                                     |                     |                |
|           | Acute bacteria toxicity | EC50 164 mg/l<br>( ) | 3 h       | activated sludge of a predominantly domestic sewage | Study report (2006) | EU Method C.11 |

**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**

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**

There are no data available on the mixture itself.

**Further information**

Do not allow to enter into surface water or drains.

Discharge into the environment must be avoided.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations**

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

Send to a physico-chemical treatment facility under observation of official regulations.

Do not mix with other wastes.

Do not allow to enter into surface water or drains.

**Contaminated packaging**

Handle contaminated packages in the same way as the substance itself.

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

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Dispose of waste according to "Kreislaufwirtschafts- und Abfallgesetz (KrW-/AbfG)".

#### SECTION 14: Transport information

##### Land transport (ADR/RID)

|                                          |                                                                                 |
|------------------------------------------|---------------------------------------------------------------------------------|
| <b>14.1. UN number or ID number:</b>     | UN 3082                                                                         |
| <b>14.2. UN proper shipping name:</b>    | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>(potassium permanganate) |
| <b>14.3. Transport hazard class(es):</b> | 9                                                                               |
| <b>14.4. Packing group:</b>              | III                                                                             |
| Hazard label:                            | 9                                                                               |
| Classification code:                     | M6                                                                              |
| Special Provisions:                      | 274 335 375 601                                                                 |
| Limited quantity:                        | 5 L                                                                             |
| Excepted quantity:                       | E1                                                                              |
| Transport category:                      | 3                                                                               |
| Hazard No:                               | 90                                                                              |
| Tunnel restriction code:                 | -                                                                               |

##### Inland waterways transport (ADN)

|                                          |                                                                                 |
|------------------------------------------|---------------------------------------------------------------------------------|
| <b>14.1. UN number or ID number:</b>     | UN 3082                                                                         |
| <b>14.2. UN proper shipping name:</b>    | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>(potassium permanganate) |
| <b>14.3. Transport hazard class(es):</b> | 9                                                                               |
| <b>14.4. Packing group:</b>              | III                                                                             |
| Hazard label:                            | 9                                                                               |
| Classification code:                     | M6                                                                              |
| Special Provisions:                      | 274 335 375 601                                                                 |
| Limited quantity:                        | 5 L                                                                             |
| Excepted quantity:                       | E1                                                                              |

##### Marine transport (IMDG)

|                                          |                                                                                 |
|------------------------------------------|---------------------------------------------------------------------------------|
| <b>14.1. UN number or ID number:</b>     | UN 3082                                                                         |
| <b>14.2. UN proper shipping name:</b>    | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>(potassium permanganate) |
| <b>14.3. Transport hazard class(es):</b> | 9                                                                               |
| <b>14.4. Packing group:</b>              | III                                                                             |
| Hazard label:                            | 9                                                                               |
| Special Provisions:                      | 274, 335, 969                                                                   |
| Limited quantity:                        | 5 L                                                                             |
| Excepted quantity:                       | E1                                                                              |
| EmS:                                     | F-A, S-F                                                                        |

##### Air transport (ICAO-TI/IATA-DGR)

|                                          |                                                                                 |
|------------------------------------------|---------------------------------------------------------------------------------|
| <b>14.1. UN number or ID number:</b>     | UN 3082                                                                         |
| <b>14.2. UN proper shipping name:</b>    | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>(potassium permanganate) |
| <b>14.3. Transport hazard class(es):</b> | 9                                                                               |
| <b>14.4. Packing group:</b>              | III                                                                             |
| Hazard label:                            | 9                                                                               |
| Special Provisions:                      | A97 A158 A197                                                                   |
| Limited quantity Passenger:              | 30 kg G                                                                         |
| Passenger LQ:                            | Y964                                                                            |
| Excepted quantity:                       | E1                                                                              |
| IATA-packing instructions - Passenger:   | 964                                                                             |

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IATA-max. quantity - Passenger: 450 L  
IATA-packing instructions - Cargo: 964  
IATA-max. quantity - Cargo: 450 L

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: Yes  
Danger releasing substance: potassium permanganate

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 75

Information according to Directive  
2012/18/EU (SEVESO III):

E2 Hazardous to the Aquatic Environment

**National regulatory information**

Employment restrictions:

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water hazard class (D):

3 - highly hazardous to water

**SECTION 16: Other information****Changes**

This data sheet contains changes from the previous version in section(s): 1,3,9.

**Abbreviations and acronyms**

Ox. Sol. 2: Oxidising solids, hazard category 2

Acute Tox. 4: Acute toxicity, hazard category 4

Skin Corr. 1C: Skin corrosion, sub-category 1C

Eye Dam. 1: Serious eye damage, hazard category 1

Repr. 2: Reproductive toxicity, hazard category 2

STOT RE 2: Specific target organ toxicity - repeated exposure, hazard category 2

Aquatic Acute 1: Hazardous to the aquatic environment, hazard category: Acute 1

Aquatic Chronic 1: Hazardous to the aquatic environment, long-term hazard category: Chronic 1

**Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]**

| Classification          | Classification procedure |
|-------------------------|--------------------------|
| Aquatic Chronic 2; H411 | Calculation method       |

**Relevant H and EUH statements (number and full text)**

H272 May intensify fire; oxidiser.  
H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H318 Causes serious eye damage.  
H361d Suspected of damaging the unborn child.  
H373 May cause damage to organs (brain) through prolonged or repeated exposure if inhaled.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.  
H411 Toxic to aquatic life with long lasting effects.

**Further Information**

Provide appropriate information, instructions and training to users

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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.

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