

AnalytiChem GmbH

according to Regulation (EC) No 1907/2006

# Kaliumoxalat-Oxalsäure-Pufferlösung für den AppliTek TitriLyzer®

Revision date: 13.05.2024

Product code: 33020

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

# 1.1. Product identifier

Kaliumoxalat-Oxalsäure-Pufferlösung für den AppliTek TitriLyzer®

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

#### Use of the substance/mixture

Laboratory chemical

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

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

# 2.2. Label elements

### Regulation (EC) No 1272/2008

### Special labelling of certain mixtures

Safety data sheet available on request.

# EUH210 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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### **Relevant ingredients**

| CAS No    | Chemical name                                 |              | Quantity |            |
|-----------|-----------------------------------------------|--------------|----------|------------|
|           | EC No                                         | Index No     | REACH No |            |
|           | Classification (Regulation (EC) No 1272/2008) |              |          |            |
| 6487-48-5 | di-Potassium oxalate monohydrate              |              |          | 5 - < 10 % |
|           | 209-506-8                                     | 607-007-00-3 |          |            |
|           | Acute Tox. 4, Acute Tox. 4; H312 H302         |              |          |            |

### 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. I | imits, M-factors and ATE          |            |
| 6487-48-5                                | 209-506-8        | di-Potassium oxalate monohydrate  | 5 - < 10 % |
|                                          | dermal: ATE =    | 1100 mg/kg; oral: ATE = 500 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.

Call a doctor if you feel unwell.

### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse.

### After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

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

### 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

Irritant Gastrointestinal complaints Vomiting Cough Dyspnoea Cardiac arrhythmias Circulatory collapse

### 4.3. Indication of any immediate medical attention and special treatment needed

No data available

# **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media



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# 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

Wear a self-contained breathing apparatus and chemical protective clothing. Avoid contact with skin, eyes and clothes.

### Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

### **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

### Advice on safe handling

Do not breathe vapour/aerosol.

# Advice on protection against fire and explosion

No special fire protection measures are necessary.



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### Advice on general occupational hygiene

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.

### Further information on handling

Take off contaminated clothing. 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

No data available

### Further information on storage conditions

Store in a dry place.

### 7.3. Specific end use(s)

Laboratory chemicals

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

### 8.1. Control parameters

### 8.2. Exposure controls

### Appropriate engineering controls

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

Provide adequate ventilation as well as local exhaustion at critical locations.

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

### Eye/face protection

Suitable eye protection: goggles.

# Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

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 Trade name/designation KCL 741 Dermatril® L Recommended material: NBR (Nitrile rubber) 0,11 mm Wearing time with permanent contact: > 480 min

By short-term hand contact Trade name/designation 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



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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.

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 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.

### **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:                                    | colourless    |                           |
| Odour:                                     | odourless     |                           |
| Melting point/freezing point:              |               | No data available         |
| Boiling point or initial boiling point and |               | No data available         |
| boiling range:                             |               |                           |
| Flammability:                              |               | No data available         |
| Lower explosion limits:                    |               | No data available         |
| Upper explosion limits:                    |               | No data available         |
| Flash point:                               |               | Х                         |
| Auto-ignition temperature:                 |               | No data available         |
| Decomposition temperature:                 |               | No data available         |
| pH-Value:                                  |               | 7,3                       |
| Viscosity / kinematic:                     |               | No data available         |
| Water solubility:                          |               | No data available         |
| Solubility in other solvents               |               |                           |
| not determined                             |               |                           |
| Partition coefficient n-octanol/water:     |               | No data available         |
| Vapour pressure:                           |               | No data available         |
| Vapour pressure:                           |               | No data available         |
| Density (at 20 °C):                        |               | 1,06256 g/cm <sup>3</sup> |
| Bulk density:                              |               | No data available         |
| Relative vapour density:                   |               | No data available         |
| 9.2. Other information                     |               |                           |
| Information with regard to physical ha     | azard classes |                           |
| Explosive properties                       |               |                           |
| not applicable                             |               |                           |
| Sustaining combustion:                     |               | No data available         |
| Self-ignition temperature                  |               |                           |
| Solid:                                     |               | No data available         |
| Gas:                                       |               | No data available         |
| Oxidizing properties<br>Not oxidising.     |               |                           |
| ·                                          |               |                           |
| Other safety characteristics               |               |                           |



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|---------------------------|---------------------|-------------|
| Evaporation rate:         | No data available   |             |
| Solvent separation test:  | No data available   |             |
| Solvent content:          | No data available   |             |
| Solid content:            | No data available   |             |
| 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

Oxidising agent, strong

### 10.4. Conditions to avoid

Heat

### 10.5. Incompatible materials

No data available

### 10.6. Hazardous decomposition products

In case of fire may be liberated: SECTION 5: Firefighting measures

# 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 |
| 6487-48-5 | di-Potassium oxalate monohydrate |                   |         |        |        |
|           | oral                             | ATE 500<br>mg/kg  |         |        |        |
|           | dermal                           | ATE 1100<br>mg/kg |         |        |        |



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### 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.

### **Practical experience**

There are no data available on the mixture itself.

# 11.2. Information on other hazards

### Other information

There are no data available on the mixture itself.

### **Further information**

Irritant Gastrointestinal complaints Vomiting Cough Dyspnoea Cardiac arrhythmias Circulatory collapse

# **SECTION 12: Ecological information**

### 12.1. Toxicity

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

# 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

Do not allow to enter into surface water or drains.



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### **Further information**

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. Do not mix with other wastes.

### Contaminated packaging

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

# **SECTION 14: Transport information**

# Land transport (ADR/RID)

| Land transport (ADR/RID)                                                                             |                                                          |  |
|------------------------------------------------------------------------------------------------------|----------------------------------------------------------|--|
| <u>14.1. UN number or ID number:</u>                                                                 | No dangerous good in sense of this transport regulation. |  |
| 14.2. UN proper shipping name:                                                                       | No dangerous good in sense of this transport regulation. |  |
| 14.3. Transport hazard class(es):                                                                    | No dangerous good in sense of this transport regulation. |  |
| 14.4. Packing group:                                                                                 | No dangerous good in sense of this transport regulation. |  |
| Inland waterways transport (ADN)                                                                     |                                                          |  |
| 14.1. UN number or ID number:                                                                        | No dangerous good in sense of this transport regulation. |  |
| 14.2. UN proper shipping name:                                                                       | No dangerous good in sense of this transport regulation. |  |
| 14.3. Transport hazard class(es):                                                                    | No dangerous good in sense of this transport regulation. |  |
| 14.4. Packing group:                                                                                 | No dangerous good in sense of this transport regulation. |  |
| Marine transport (IMDG)                                                                              |                                                          |  |
| 14.1. UN number or ID number:                                                                        | No dangerous good in sense of this transport regulation. |  |
| 14.2. UN proper shipping name:                                                                       | No dangerous good in sense of this transport regulation. |  |
| 14.3. Transport hazard class(es):                                                                    | No dangerous good in sense of this transport regulation. |  |
| 14.4. Packing group:                                                                                 | No dangerous good in sense of this transport regulation. |  |
| Air transport (ICAO-TI/IATA-DGR)                                                                     |                                                          |  |
| 14.1. UN number or ID number:                                                                        | No dangerous good in sense of this transport regulation. |  |
| 14.2. UN proper shipping name:                                                                       | No dangerous good in sense of this transport regulation. |  |
| 14.3. Transport hazard class(es):                                                                    | No dangerous good in sense of this transport regulation. |  |
| 14.4. Packing group:                                                                                 | No dangerous good in sense of this transport regulation. |  |
| 14.5. Environmental hazards                                                                          |                                                          |  |
| ENVIRONMENTALLY HAZARDOUS:                                                                           | No                                                       |  |
| 14.6. Special precautions for user                                                                   |                                                          |  |
| No dangerous good in sense of this trai                                                              | nsport regulation.                                       |  |
| 14.7. Maritime transport in bulk according to                                                        | IMO instruments                                          |  |
| not applicable                                                                                       |                                                          |  |
| SECTION 15: Regulatory information                                                                   |                                                          |  |
| 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture |                                                          |  |
| EU regulatory information                                                                            |                                                          |  |
| Information according to Directive                                                                   | Not subject to 2012/18/EU (SEVESO III)                   |  |
| 2012/18/EU (SEVESO III):                                                                             |                                                          |  |
| National regulatory information                                                                      |                                                          |  |
| National regulatory information                                                                      |                                                          |  |

1 - slightly hazardous to water



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# **SECTION 16: Other information**

# Changes

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

# Abbreviations and acronyms

Acute Tox: Acute toxicity ADR: Accord européen sur le transport 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 GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service LC50: Lethal concentration, 50% LD50: Lethal dose, 50%

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

| H302   | Harmful if swallowed.                   |
|--------|-----------------------------------------|
| H312   | Harmful in contact with skin.           |
| EUH210 | Safety data sheet available on request. |

### **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. Provide appropriate information, instructions and training to users

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