

according to Regulation (EC) No 1907/2006

# LCK 228 Kalium/Potassium, Sample cuvette; 1/3

Revision date: 21.03.2017

Product code: LCK228-1

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

### 1.1. Product identifier

LCK 228 Kalium/Potassium, Sample cuvette; 1/3

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

### Use of the substance/mixture

Water analysis

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

| Company name:                     | HACH LANGE GmbH  |
|-----------------------------------|--|
| Street:<br>Place:                 | Willstätterstr. 11<br>D-40549 Düsseldorf   |
|                                   |  |
| Telephone:<br>e-mail:             | +49 (0)211 5288-383<br>SDS@hach.com  |
| Internet:                         | www.de.hach.com  |
| Responsible Department:           | HACH LANGE Ltd.  |
|                                   | 5. Pacific Way   |
|                                   | Salford Manchester M50 1DL - United Kingdom  |
|                                   | Tel. +44 (0) 161 872 1487 * Fax +44 (0) 161 848 7324                               |
|                                   | e-Mail: info-uk@hach.com   |
|                                   | HACH LANGE Ltd.  |
|                                   | Unit 1, Chestnut Road Western Industrial Estate                                    |
|                                   | IRL-Dublin 12  |
|                                   | Tel. +353 (0)1 4602522   |
|                                   | e-Mail: info-ie@hach.com   |
| <br>Emergency telephone_<br>nber: | Poison Control Center Mainz: Tel: +49 (0) 6131 19240 - 24 hour emergency service - |

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

### 2.1. Classification of the substance or mixture

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

Hazard categories: Acute toxicity: Acute Tox. 4 Skin corrosion/irritation: Skin Irrit. 2 Serious eye damage/eye irritation: Eye Irrit. 2 Respiratory or skin sensitisation: Skin Sens. 1 Germ cell mutagenicity: Muta. 2 Carcinogenicity: Carc. 1B Specific target organ toxicity - single exposure: STOT SE 3 Hazard Statements: Harmful if swallowed. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation. Suspected of causing genetic defects. May cause cancer.

# 2.2. Label elements

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

Hazard components for labelling formaldehyde ... %



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Signal word: Pictograms:



### Hazard statements

| H302 | Harmful if swallowed.                 |
|------|---------------------------------------|
| H315 | Causes skin irritation.               |
| H317 | May cause an allergic skin reaction.  |
| H319 | Causes serious eye irritation.        |
| H335 | May cause respiratory irritation.     |
| H341 | Suspected of causing genetic defects. |
| H350 | May cause cancer.                     |

### Precautionary statements

| countionary states |  |
|--------------------|--|
| P201               | Obtain special instructions before use.                                    |
| P280               | Wear protective gloves/protective clothing/eye protection/face protection. |
| P281               | Use personal protective equipment as required.                             |
| P308+P313          | IF exposed or concerned: Get medical advice/attention.                     |
| P333+P313          | If skin irritation or rash occurs: Get medical advice/attention.           |
| P337+P313          | If eye irritation persists: Get medical advice/attention.                  |
| P363               | Wash contaminated clothing before reuse.                                   |
|                    |  |

### Additional advice on labelling

The product is classified as dangerous in accordance with Regulation (EC) No. 1272/2008.

### 2.3. Other hazards

None known.

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

### 3.2. Mixtures

### Hazardous components

| CAS No    | Chemical name   |              |          |  |  |
|-----------|---|--------------|----------|--|--|
|           | EC No   | Index No     | REACH No |  |  |
|           | Classification according to Regulation (EC) No. 1272/2008 [CLP]   |              |          |  |  |
| 7732-18-5 | Water   |              |          |  |  |
|           | 231-791-2   |              |          |  |  |
|           |   |              |          |  |  |
| 50-00-0   | formaldehyde %  |              |          |  |  |
|           | 200-001-8   | 605-001-00-5 |          |  |  |
|           | Carc. 1B, Muta. 2, Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, Skin Corr. 1B, Skin Sens. 1; H350<br>H341 H301 H311 H331 H314 H317 |              |          |  |  |

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

# SECTION 4: First aid measures

# 4.1. Description of first aid measures

# General information

Take off contaminated clothing and shoes immediately. Show this safety data sheet to the doctor in attendance.



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# After inhalation

Move to fresh air.

# After contact with skin

Wash off immediately with plenty of water for at least 15 minutes.

### After contact with eyes

In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

### After ingestion

Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person.

Consult a physician.

### 4.2. Most important symptoms and effects, both acute and delayed

irritant effects, sensitising effects

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

Treat symptomatically.

### **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### 5.2. Special hazards arising from the substance or mixture

Fire may liberate hazardous vapours.

### 5.3. Advice for firefighters

In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing. In the event of fire, wear self-contained breathing apparatus.

### Additional information

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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

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

Use personal protective equipment.

### 6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system.

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

Sweep up or vacuum up spillage and collect in suitable container for disposal.

### 6.4. Reference to other sections

13. Disposal considerations

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

### 7.1. Precautions for safe handling

### Advice on safe handling

Use only in well-ventilated areas. Avoid contact with skin and eyes.

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

### Requirements for storage rooms and vessels

Keep container tightly closed in a dry and well-ventilated place. Accessible only for authorized persons.

# 7.3. Specific end use(s)



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Reagent for analysis

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

### 8.1. Control parameters

# Exposure limits (EH40)

| CAS No  | Substance    | ppm | mg/m³ | fibres/ml | Category      | Origin |
|---------|--------------|-----|-------|-----------|---------------|--------|
| 50-00-0 | Formaldehyde | 2   | 2.5   |           | TWA (8 h)     | WEL    |
|         |              | 2   | 2.5   |           | STEL (15 min) | WEL    |

### Additional advice on limit values

None known.

### 8.2. Exposure controls

### Appropriate engineering controls

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

### Protective and hygiene measures

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Wash hands before breaks and at the end of workday.

### Eye/face protection

Safety glasses with side-shields

### Hand protection

Use barrier skin cream.

Chemical resistant protective gloves

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. In full contact: Gloves material: Viton, Layer thickness: 0.70 mm, Breakthrough time: >480 min. In splash contact: Glove material: nitrile rubber, Layer thickness 0,20 mm, Breakthrough time: > 30 min

### Skin protection

Avoid contact with skin, eyes and clothing.

# **Respiratory protection**

Provide adequate ventilation.

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

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

| incal properties                         |                      |  |
|--|----------------------|--|
| liquid                                   |                      |  |
| colourless                               |                      |  |
| odourless                                |                      |  |
|  | 5                    |  |
|  |                      |  |
|  | not applicable       |  |
| Initial boiling point and boiling range: |                      |  |
| Sublimation point:                       |                      |  |
|  | not applicable       |  |
|  | not applicable       |  |
|  | no data available    |  |
|  | -                    |  |
|  | liquid<br>colourless |  |



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|---|--|-------------|
| Sustaining combustion:                            | No data available  |             |
| Flammability                                      |  |             |
| Solid:  | no data available  |             |
| Gas:  | no data available  |             |
| Explosive properties<br>no data available         |  |             |
| Lower explosion limits:                           | not applicable   |             |
| Upper explosion limits:                           | not applicable   |             |
| Ignition temperature:                             | no data available  |             |
| Auto-ignition temperature                         |  |             |
| Solid:  | no data available  |             |
| Gas:  | no data available  |             |
| Decomposition temperature:                        | no data available  |             |
| Oxidizing properties<br>no data available         |  |             |
| Vapour pressure:                                  | no data available  |             |
| Vapour pressure:                                  | no data available  |             |
| Density:  | 1,02 g/cm³   |             |
| Bulk density:                                     | not applicable   |             |
| Water solubility:<br>(at 20 °C)                   | soluble  |             |
| Solubility in other solvents<br>no data available |  |             |
| Partition coefficient:                            | no data available  |             |
| Viscosity / dynamic:                              | no data available  |             |
| Viscosity / kinematic:                            | no data available  |             |
| Flow time:  | no data available  |             |
| Vapour density:                                   | no data available  |             |
| Evaporation rate:                                 | no data available  |             |
| Solvent separation test:                          | no data available  |             |
| Solvent content:                                  | no data available  |             |
| 9.2. Other information                            |  |             |
| Solid content:                                    | not applicable   |             |
| no data available                                 |  |             |

# **SECTION 10: Stability and reactivity**

# 10.1. Reactivity

No dangerous reaction known under conditions of normal use.

# 10.2. Chemical stability

Stable under recommended storage conditions.

# 10.3. Possibility of hazardous reactions

To avoid thermal decomposition, do not overheat.

### 10.4. Conditions to avoid

Heat, flames and sparks.



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# 10.5. Incompatible materials

Strong acids and oxidizing agents

### 10.6. Hazardous decomposition products

Carbon oxides Methanol

# **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

### Toxicocinetics, metabolism and distribution

No toxicology information is available.

### Acute toxicity

No data is available on the product itself.

### **ATEmix calculated**

ATE (oral) 1061,8 mg/kg

| CAS No  | Chemical name           |              |          |         |        |        |
|---------|-------------------------|--------------|----------|---------|--------|--------|
|         | Exposure route          | Dose         |          | Species | Source | Method |
| 50-00-0 | formaldehyde %          |              |          |         |        |        |
|         | oral                    | ATE<br>mg/kg | 100      |         |        |        |
|         | dermal                  | ATE<br>mg/kg | 300      |         |        |        |
|         | inhalation (4 h) vapour | LC50         | 250 mg/l | rat     |        |        |
|         | inhalation aerosol      | ATE          | 0,5 mg/l |         |        |        |

### Irritation and corrosivity

The product causes irritation of eyes, skin and mucous membranes.

### Sensitising effects

May cause sensitisation by skin contact. (formaldehyde ... %)

### Carcinogenic/mutagenic/toxic effects for reproduction

May cause cancer. (formaldehyde ... %)

H341 - Suspected of causing genetic defects. (formaldehyde ... %)

### STOT-single exposure

The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

### STOT-repeated exposure

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

### Aspiration hazard

No aspiration toxicity classification

### Specific effects in experiment on an animal

No toxicology information is available.

### Additional information on tests

None known.

# Further information

Other dangerous properties can not be excluded. Handle in accordance with good industrial hygiene and safety practice.

# **SECTION 12: Ecological information**

### 12.1. Toxicity



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No information on ecology is available. **12.2. Persistence and degradability** 

### z. i ersistence and degradability

No data is available on the product itself.

# 12.3. Bioaccumulative potential

No data is available on the product itself.

12.4. Mobility in soil

no data available

### 12.5. Results of PBT and vPvB assessment

no data available

### 12.6. Other adverse effects

No known effect.

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

### 13.1. Waste treatment methods

### Advice on disposal

In accordance with local and national regulations. Our local agencies will accept used cuvettes to ensure their proper disposal.

### Waste disposal number of waste from residues/unused products

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals; hazardous waste

### Waste disposal number of used product

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals; hazardous waste

### Waste disposal number of contaminated packaging

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals; hazardous waste

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

### Land transport (ADR/RID)

| • • •                             |              |
|-----------------------------------|--------------|
| <u>14.1. UN number:</u>           | UN 3316      |
| 14.2. UN proper shipping name:    | Chemical kit |
| 14.3. Transport hazard class(es): | 9            |
| 14.4. Packing group:              | П            |
| Hazard label:                     | 9            |
|                                   |              |
| Classification code:              | M11          |
| Special Provisions:               | 251 340      |
| Limited quantity:                 | SP251        |
| Excepted quantity:                | SP340        |
| Transport category:               | 2            |
| Hazard No:                        | -            |
| Tunnel restriction code:          | E            |
| nland waterways transport (ADN)   |              |



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|---|-------------------------------|--|--|
| Other applicable information (inland waterways transport)<br>Not tested |                               |  |  |
| Marine transport (IMDG)   |                               |  |  |
| <u>14.1. UN number:</u>   | UN 3316                       |  |  |
| 14.2. UN proper shipping name:  | CHEMICAL KIT                  |  |  |
| 14.3. Transport hazard class(es):                                       | 9                             |  |  |
| 14.4. Packing group:  | II                            |  |  |
| Hazard label:   | 9                             |  |  |
|   |                               |  |  |
|   |                               |  |  |
|   | 9                             |  |  |
| Marine pollutant:   | -                             |  |  |
| Special Provisions:   | 251, 340                      |  |  |
| Limited quantity:   | See SP251                     |  |  |
| Excepted quantity:  | SP340                         |  |  |
| EmS:  | F-A, S-P                      |  |  |
| Air transport (ICAO-TI/IATA-DGR)  |                               |  |  |
| <u>14.1. UN number:</u>   | UN 3316                       |  |  |
| 14.2. UN proper shipping name:  | CHEMICAL KIT                  |  |  |
| 14.3. Transport hazard class(es):                                       | 9                             |  |  |
| 14.4. Packing group:  | II                            |  |  |
| Hazard label:   | 9                             |  |  |
|   |                               |  |  |
|   | 9                             |  |  |
| Special Provisions:   | A44 A163                      |  |  |
| Limited quantity Passenger:   | 1 kg                          |  |  |
| Passenger LQ:   | Y960                          |  |  |
| Excepted quantity:  | E0                            |  |  |
| IATA-packing instructions - Passenger:                                  | 960                           |  |  |
| IATA-max. quantity - Passenger:   | 10 kg<br>960                  |  |  |
| IATA-packing instructions - Cargo:<br>IATA-max. quantity - Cargo:       | 900<br>10 kg                  |  |  |
| 14.5. Environmental hazards   | i o kg                        |  |  |
| ENVIRONMENTALLY HAZARDOUS:  | no                            |  |  |
|   |                               |  |  |
| 14.6. Special precautions for user<br>no data available                 |                               |  |  |
| 14.7. Transport in bulk according to Annex<br>Not relevant              | II of Marpol and the IBC Code |  |  |
| Other applicable information  |                               |  |  |
| These transport data apply to the entire                                | e pack                        |  |  |
|   |                               |  |  |
| 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 28: formaldehyde ... %



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# Additional information

The product is classified as dangerous in accordance with Regulation (EC) No. 1272/2008.

### National regulatory information

Employment restrictions:

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). 2 - clearly water contaminating

# Water contaminating class (D): 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

### **SECTION 16: Other information**

### Changes

Revision Date 21.03.2017 Safety datasheet sections which have been updated: 7, 9, 14, 15

Revision: 1.03.2016 Safety datasheet sections which have been updated: 2, 11 Revision: 24.09.2014 Safety datasheet sections which have been updated: 4, 6, 7-12, 14, 15

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

| H301 | Toxic if swallowed.                      |
|------|--|
| H302 | Harmful if swallowed.                    |
| H311 | Toxic in contact with skin.              |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation.                  |
| H317 | May cause an allergic skin reaction.     |
| H319 | Causes serious eye irritation.           |
| H331 | Toxic if inhaled.                        |
| H335 | May cause respiratory irritation.        |
| H341 | Suspected of causing genetic defects.    |
| H350 | May cause cancer.                        |

### **Further Information**

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.

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



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

### 1.1. Product identifier

LCK 228 Kalium/Potassium, LCK 228 A; 2/3

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

# Use of the substance/mixture

Water analysis

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

| Company name:                              | HACH LANGE GmbH  |
|--|--|
| Street:                                    | Willstätterstr. 11   |
| Place:                                     | D-40549 Düsseldorf   |
| Telephone:                                 | +49 (0)211 5288-383  |
| e-mail:                                    | SDS@hach.com   |
| Internet:                                  | www.de.hach.com  |
| Responsible Department:                    | HACH LANGE Ltd.  |
|  | 5, Pacific Way   |
|  | Salford Manchester M50 1DL - United Kingdom  |
|  | Tel. +44 (0) 161 872 1487 * Fax +44 (0) 161 848 7324                               |
|  | e-Mail: info-uk@hach.com   |
|  | HACH LANGE Ltd.  |
|  | Unit 1, Chestnut Road Western Industrial Estate                                    |
|  | IRL-Dublin 12  |
|  | Tel. +353 (0)1 4602522   |
|  | e-Mail: info-ie@hach.com   |
| <u>1.4. Emergency telephone</u><br>number: | Poison Control Center Mainz: Tel: +49 (0) 6131 19240 - 24 hour emergency service - |

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

### 2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008 Hazard categories:

Serious eye damage/eye irritation: Eye Dam. 1 Hazard Statements: Causes serious eye damage.

### 2.2. Label elements

# Regulation (EC) No. 1272/2008

Hazard components for labelling tetrasodium ethylene diamine tetraacetate

Signal word:

Danger



### Hazard statements

H318

**Pictograms:** 

Causes serious eye damage.

# **Precautionary statements**

P280 P305+P351+P338 Wear protective gloves/protective clothing/eye protection/face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if



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P310

present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

### Additional advice on labelling

The product is classified as dangerous in accordance with Regulation (EC) No. 1272/2008.

### 2.3. Other hazards

None known.

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

### 3.2. Mixtures

### Hazardous components

| CAS No    | Chemical name   |              |          | Quantity |
|-----------|---|--------------|----------|----------|
|           | EC No   | Index No     | REACH No |          |
|           | Classification according to Regulation (EC) No. 1272/2008 [CLP] |              |          |          |
| 7732-18-5 | Water   |              |          | > 90 %   |
|           | 231-791-2   |              |          |          |
|           |   |              |          |          |
| 64-02-8   | tetrasodium ethylene diamine tetraacetate                       |              |          | < 10 %   |
|           | 200-573-9   | 607-428-00-2 |          |          |
|           | Acute Tox. 4, Eye Dam. 1; H302 H318                             |              |          |          |

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

# SECTION 4: First aid measures

### 4.1. Description of first aid measures

### **General information**

Take off contaminated clothing and shoes immediately.

### After inhalation

Move to fresh air.

# After contact with skin

Wash off immediately with plenty of water for at least 15 minutes.

### After contact with eyes

Immediately flush eye(s) with plenty of water.

### After ingestion

Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person.

Consult a physician.

# 4.2. Most important symptoms and effects, both acute and delayed

Irritation and corrosion

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

Treat symptomatically.

### **SECTION 5: Firefighting measures**

# 5.1. Extinguishing media

### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### 5.2. Special hazards arising from the substance or mixture

Fire may liberate hazardous vapours.



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### 5.3. Advice for firefighters

In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing. In the event of fire, wear self-contained breathing apparatus.

### Additional information

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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

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

Use personal protective equipment.

### 6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system.

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

Keep in suitable, closed containers for disposal.

# 6.4. Reference to other sections

13. Disposal considerations

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

### 7.1. Precautions for safe handling

### Advice on safe handling

Use only in well-ventilated areas. Avoid contact with skin and eyes.

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

### Requirements for storage rooms and vessels

Keep container tightly closed in a dry and well-ventilated place.

# 7.3. Specific end use(s)

Reagent for analysis

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

### 8.1. Control parameters

### Additional advice on limit values

None known.

### 8.2. Exposure controls

### Protective and hygiene measures

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Wash hands before breaks and at the end of workday.

# Eye/face protection

Safety glasses with side-shields

# Hand protection

Use barrier skin cream. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

### Skin protection

Avoid contact with skin, eyes and clothing.

# Respiratory protection

Provide adequate ventilation.



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

### 9.1. Information on basic physical and chemical properties Physical state: liquid Colour: colourless Odour: odourless pH-Value (at 20 °C): Changes in the physical state Melting point: no data available 100 °C Initial boiling point and boiling range: Sublimation point: not applicable Softening point: not applicable Pour point: not applicable no data available Flash point: Sustaining combustion: No data available Flammability Solid: not applicable Gas: not applicable **Explosive properties** not applicable Lower explosion limits: not applicable Upper explosion limits: not applicable Ignition temperature: not applicable Auto-ignition temperature Solid: not applicable Gas: not applicable Decomposition temperature: not applicable **Oxidizing properties** not applicable no data available Vapour pressure: Vapour pressure: no data available Density (at 20 °C): 1 g/cm<sup>3</sup> Bulk density: not applicable Water solubility: soluble (at 20 °C) Solubility in other solvents no data available Partition coefficient: no data available no data available Viscosity / dynamic: no data available Viscosity / kinematic: no data available Flow time: no data available Vapour density: no data available Evaporation rate: no data available Solvent separation test:



according to Regulation (EC) No 1907/2006

# LCK 228 Kalium/Potassium, LCK 228 A; 2/3 Page 5 of 8 Revision date: 21.03.2017 Product code: LCK228-2 Page 5 of 8 Solvent content: no data available Page 5 of 8 9.2. Other information Not applicable Vertice Solid content: not applicable Vertice no data available Section 10: Stability and reactivity Vertice

### 10.1. Reactivity

No dangerous reaction known under conditions of normal use.

### 10.2. Chemical stability

Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

Hazardous polymerisation does not occur.

### 10.4. Conditions to avoid

No decomposition if used as directed.

### 10.5. Incompatible materials

None known.

### 10.6. Hazardous decomposition products

No hazardous decomposition products are known.

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

### 11.1. Information on toxicological effects

### Toxicocinetics, metabolism and distribution

No toxicology information is available.

### Acute toxicity

No data is available on the product itself.

| CAS No  | Chemical name                             |                    |         |        |        |
|---------|---|--------------------|---------|--------|--------|
|         | Exposure route                            | Dose               | Species | Source | Method |
| 64-02-8 | tetrasodium ethylene diamine tetraacetate |                    |         |        |        |
|         | oral                                      | LD50 1658<br>mg/kg | rat     |        |        |

### Irritation and corrosivity

H318 - Causes serious eye damage.

### Sensitising effects

No known effect.

# Carcinogenic/mutagenic/toxic effects for reproduction

Contains no ingredient listed as a carcinogen

### STOT-single exposure

The substance or mixture is not classified as specific target organ toxicant, single exposure.

### STOT-repeated exposure

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

# Aspiration hazard

No aspiration toxicity classification

# Specific effects in experiment on an animal

No toxicology information is available.



according to Regulation (EC) No 1907/2006

# LCK 228 Kalium/Potassium, LCK 228 A; 2/3

Revision date: 21.03.2017

Product code: LCK228-2

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### **Further information**

Other dangerous properties can not be excluded. Handle in accordance with good industrial hygiene and safety practice.

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

### 12.1. Toxicity

No information on ecology is available.

### 12.2. Persistence and degradability

No data is available on the product itself.

### 12.3. Bioaccumulative potential

No data is available on the product itself.

### 12.4. Mobility in soil

no data available

12.5. Results of PBT and vPvB assessment

### no data available

12.6. Other adverse effects

No known effect.

# **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

### Advice on disposal

In accordance with local and national regulations.

Our local agencies will accept used cuvettes to ensure their proper disposal.

# Waste disposal number of waste from residues/unused products

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals; hazardous waste

### Waste disposal number of used product

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals; hazardous waste

### Waste disposal number of contaminated packaging

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals; hazardous waste

UN 3316

g

Ш

g

M11 251 340

Chemical kit

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

# Land transport (ADR/RID) <u>14.1. UN number:</u> <u>14.2. UN proper shipping name:</u> <u>14.3. Transport hazard class(es):</u> <u>14.4. Packing group:</u> Hazard label:

Classification code: Special Provisions:



| Berigin  |                         |                      |             |
|--|-------------------------|----------------------|-------------|
|  |                         | sium, LCK 228 A; 2/3 |             |
| Revision date: 21.03.2017                                    | Product code            | e: LCK228-2          | Page 7 of 8 |
| Limited quantity:  | SP 251                  |                      |             |
| Excepted quantity:   | SP 340                  |                      |             |
| Transport category:<br>Hazard No:                            | 2                       |                      |             |
| Tunnel restriction code:                                     | E                       |                      |             |
| Inland waterways transport (ADN)                             | -                       |                      |             |
| Other applicable information (inland wa                      | aterways transport)     |                      |             |
| Not tested   | lion nayo tranoport,    |                      |             |
| Marine transport (IMDG)                                      |                         |                      |             |
| <u>14.1. UN number:</u>                                      | UN 3316                 |                      |             |
| 14.2. UN proper shipping name:                               | CHEMICAL KIT            |                      |             |
| 14.3. Transport hazard class(es):                            | 9                       |                      |             |
| 14.4. Packing group:   | II                      |                      |             |
| Hazard label:  | 9                       |                      |             |
|  |                         |                      |             |
|  |                         |                      |             |
|  | 9                       |                      |             |
| Marine pollutant:  | -                       |                      |             |
| Special Provisions:<br>Limited quantity:                     | 251, 340<br>SP251       |                      |             |
| Excepted quantity:   | SP340                   |                      |             |
| EmS:   | F-A, S-P                |                      |             |
| Air transport (ICAO-TI/IATA-DGR)                             |                         |                      |             |
| <u>14.1. UN number:</u>                                      | UN 3316                 |                      |             |
| 14.2. UN proper shipping name:                               | CHEMICAL KIT            |                      |             |
| 14.3. Transport hazard class(es):                            | 9                       |                      |             |
| 14.4. Packing group:   | II                      |                      |             |
| Hazard label:  | 9                       |                      |             |
|  |                         |                      |             |
|  | 9                       |                      |             |
| Special Provisions:  | A44 A163                |                      |             |
| Limited quantity Passenger:                                  | 1 kg                    |                      |             |
| Passenger LQ:  | Y960                    |                      |             |
| Excepted quantity:<br>IATA-packing instructions - Passenger: | E0                      | 960                  |             |
| IATA-packing instructions - rassenger:                       |                         | 10 kg                |             |
| IATA-packing instructions - Cargo:                           |                         | 960                  |             |
| IATA-max. quantity - Cargo:                                  |                         | 10 kg                |             |
| 14.5. Environmental hazards                                  |                         |                      |             |
| ENVIRONMENTALLY HAZARDOUS:                                   | no                      |                      |             |
| 14.6. Special precautions for user<br>no data available      |                         |                      |             |
| 14.7. Transport in bulk according to Annex                   | II of Marpol and the IB | C Code               |             |
| Not relevant   |                         |                      |             |
| Other applicable information                                 |                         |                      |             |
| These transport data apply to the enti                       | re pack                 |                      |             |



# LCK 228 Kalium/Potassium, LCK 228 A; 2/3

Revision date: 21.03.2017

Product code: LCK228-2

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

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

### National regulatory information

Water contaminating class (D):

2 - clearly water contaminating

### 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

### **SECTION 16: Other information**

### Changes

Revision Date 21.03.2017 Safety datasheet sections which have been updated: 9

Revision: 1.03.2016 Safety datasheet sections which have been updated: 2, 11 Revision: 24.09.2014 Safety datasheet sections which have been updated: 4, 6, 7-12, 14, 15

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

H302 H318 Harmful if swallowed. Causes serious eye damage.

### **Further Information**

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.

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



according to Regulation (EC) No 1907/2006

# LCK 228 Kalium/Potassium, LCK B; 3/3

Revision date: 21.03.2017

Product code: LCK228-3

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

# 1.1. Product identifier

LCK 228 Kalium/Potassium, LCK B; 3/3 CAS No: 143-66-8 EC No: 205-605-5

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

| Use of the substance/mixture |
|------------------------------|
| Water analysis               |

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

| Company name:            | HACH LANGE GmbH  |
|--------------------------|--|
| Street:                  | Willstätterstr. 11   |
| Place:                   | D-40549 Düsseldorf   |
| Telephone:               | +49 (0)211 5288-383  |
| e-mail:                  | SDS@hach.com   |
| Internet:                | www.de.hach.com  |
| Responsible Department:  | HACH LANGE Ltd.  |
|                          | 5, Pacific Way   |
|                          | Salford Manchester M50 1DL - United Kingdom                              |
|                          | Tel. +44 (0) 161 872 1487 * Fax +44 (0) 161 848 7324                     |
|                          | e-Mail: info-uk@hach.com   |
|                          | HACH LANGE Ltd.  |
|                          | Unit 1, Chestnut Road Western Industrial Estate                          |
|                          | IRL-Dublin 12  |
|                          | Tel. +353 (0)1 4602522   |
|                          | e-Mail: info-ie@hach.com   |
| 1.4. Emergency telephone | Poison Control Center Mainz: Tel: +49 (0) 6131 19240 - 24 hour emergency |

service -

number:

# SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

# Regulation (EC) No. 1272/2008

Hazard categories: Acute toxicity: Acute Tox. 3 Hazard Statements: Toxic if swallowed.

### 2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling Sodium tetraphenyl borate

Signal word:

Pictograms:



Danger

# Hazard statements

H301

Toxic if swallowed.



### according to Regulation (EC) No 1907/2006

### LCK 228 Kalium/Potassium, LCK B; 3/3

Revision date: 21.03.2017

Product code: LCK228-3

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### **Precautionary statements**

P280 P301+P310 Wear protective gloves/protective clothing/eye protection/face protection. IF SWALLOWED: Immediately call a POISON CENTER/doctor.

### Additional advice on labelling

The product is classified as dangerous in accordance with Regulation (EC) No. 1272/2008.

### 2.3. Other hazards

None known.

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

### 3.1. Substances

### Hazardous components

| CAS No   | Chemical name   |                           |          | Quantity |
|----------|---|---------------------------|----------|----------|
|          | EC No   | Index No                  | REACH No |          |
|          | Classification according to Regulation (EC) No. 1272/2008 [CLP] |                           |          |          |
| 143-66-8 | Sodium tetraphenyl borate                                       | Sodium tetraphenyl borate |          |          |
|          | 205-605-5   |                           |          |          |
|          | Acute Tox. 3; H301  |                           |          |          |

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

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

### 4.1. Description of first aid measures

### General information

Take off contaminated clothing and shoes immediately. Show this safety data sheet to the doctor in attendance.

### After inhalation

Move to fresh air.

### After contact with skin

Wash off immediately with plenty of water for at least 15 minutes.

### After contact with eyes

In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

### After ingestion

Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person.

Consult a physician.

### 4.2. Most important symptoms and effects, both acute and delayed

If swallowed: Nausea, Vomiting, Spasm,

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

Treat symptomatically.

### **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### 5.2. Special hazards arising from the substance or mixture

Fire may liberate hazardous vapours.



according to Regulation (EC) No 1907/2006

### LCK 228 Kalium/Potassium, LCK B; 3/3

Revision date: 21.03.2017

Product code: LCK228-3

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### 5.3. Advice for firefighters

In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing. In the event of fire, wear self-contained breathing apparatus.

### Additional information

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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

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

Use personal protective equipment. Ensure adequate ventilation.

### 6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system.

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

Use mechanical handling equipment. Keep in suitable, closed containers for disposal.

# 6.4. Reference to other sections

13. Disposal considerations

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

### 7.1. Precautions for safe handling

### Advice on safe handling

Use only in well-ventilated areas. Avoid contact with skin and eyes. Use barrier skin cream. Wash hands before breaks and at the end of workday.

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

### Requirements for storage rooms and vessels

Keep container tightly closed in a dry and well-ventilated place.

### Further information on storage conditions

Accessible only for authorized persons.

### 7.3. Specific end use(s)

Reagent for analysis

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

### 8.1. Control parameters

Additional advice on limit values

None known.

# 8.2. Exposure controls

### Protective and hygiene measures

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Wash hands before breaks and at the end of workday.

### Eye/face protection

Safety glasses with side-shields

### Hand protection

Use barrier skin cream.

Chemical resistant protective gloves

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. In full contact: Gloves material: Viton, Layer thickness: 0.70 mm, Breakthrough time: >480 min. In splash contact: Glove material: nitrile rubber, Layer thickness 0,20 mm, Breakthrough time: > 30



# LCK 228 Kalium/Potassium, LCK B; 3/3

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Product code: LCK228-3

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min

### Skin protection

Avoid contact with skin, eyes and clothing.

# **Respiratory protection**

Provide adequate ventilation.

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

# 9.1. Information on basic physical and chemical properties

| Physical state:<br>Colour:<br>Odour:                           | solid<br>colourless<br>phenol-like |  |
|--|------------------------------------|--|
| pH-Value (at 20 °C):   |                                    | 8 (5 % solution)                       |
| Changes in the physical state                                  |                                    |  |
| Melting point:   |                                    | > 300 °C                               |
| Initial boiling point and boiling range:<br>Sublimation point: |                                    | no data available<br>no data available |
| Softening point:   |                                    | not applicable                         |
| Pour point:  |                                    | not applicable                         |
| Flash point:   |                                    | not applicable                         |
| Sustaining combustion:   |                                    | No data available                      |
| Flammability   |                                    |  |
| Solid:   |                                    | no data available                      |
| Gas:   |                                    | no data available                      |
| Explosive properties<br>not applicable                         |                                    |  |
| Lower explosion limits:  |                                    | not applicable                         |
| Upper explosion limits:  |                                    | not applicable                         |
| Ignition temperature:  |                                    | no data available                      |
| Auto-ignition temperature<br>Solid:                            |                                    | no data available                      |
| Gas:   |                                    | no data available                      |
| Decomposition temperature:                                     |                                    | no data available                      |
| Oxidizing properties<br>no data available                      |                                    |  |
| Vapour pressure:   |                                    | no data available                      |
| Density:<br>Bulk density:                                      |                                    | no data available<br>500 kg/m³         |
| Water solubility:<br>(at 20 °C)                                |                                    | soluble                                |
| Solubility in other solvents<br>no data available              |                                    |  |
| Partition coefficient:   |                                    | no data available                      |
| Viscosity / dynamic:   |                                    | no data available                      |
| Viscosity / kinematic:   |                                    | no data available                      |
| Flow time:   |                                    | no data available                      |
| Vapour density:  |                                    | no data available                      |
| vision No: 1.4   | GB - EN                            |  |



according to Regulation (EC) No 1907/2006

| LCK 228 Kalium/Potassium, LCK B; 3/3 |                        |             |  |  |  |
|--------------------------------------|------------------------|-------------|--|--|--|
| Revision date: 21.03.2017            | Product code: LCK228-3 | Page 5 of 8 |  |  |  |
| Evaporation rate:                    | no data available      |             |  |  |  |
| Solvent separation test:             | no data available      |             |  |  |  |
| Solvent content:                     | no data available      |             |  |  |  |
| 9.2. Other information               |                        |             |  |  |  |
| Solid content:                       | no data available      |             |  |  |  |
| no data available                    |                        |             |  |  |  |

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

### 10.1. Reactivity

No dangerous reaction known under conditions of normal use.

### 10.2. Chemical stability

Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

Reacts with the following substances: Oxidizing agents, Acids, Bases

### 10.4. Conditions to avoid

To avoid thermal decomposition, do not overheat. Exposure to moisture.

### 10.5. Incompatible materials

None known.

# 10.6. Hazardous decomposition products

None known.

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

### 11.1. Information on toxicological effects

### Toxicocinetics, metabolism and distribution

No toxicology information is available.

### Acute toxicity

No data is available on the product itself.

| CAS No   | Chemical name             |                   |         |        |        |
|----------|---------------------------|-------------------|---------|--------|--------|
|          | Exposure route            | Dose              | Species | Source | Method |
| 143-66-8 | Sodium tetraphenyl borate |                   |         |        |        |
|          |                           | LD50 288<br>mg/kg | Ratte   |        |        |

### Irritation and corrosivity

No known effect.

### Sensitising effects

No known effect.

### Carcinogenic/mutagenic/toxic effects for reproduction

Contains no ingredient listed as a carcinogen

### STOT-single exposure

The substance or mixture is not classified as specific target organ toxicant, single exposure.

### STOT-repeated exposure

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

### Aspiration hazard

No aspiration toxicity classification



# LCK 228 Kalium/Potassium, LCK B; 3/3

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### Further information

Other dangerous properties can not be excluded. Handle in accordance with good industrial hygiene and safety practice.

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

### 12.1. Toxicity

No information on ecology is available.

| CAS No   | Chemical name             |              |                                    |        |        |
|----------|---------------------------|--------------|------------------------------------|--------|--------|
|          | Aquatic toxicity          | Dose         | [h]   [d] Species                  | Source | Method |
| 143-66-8 | Sodium tetraphenyl borate |              |                                    |        |        |
|          | Acute crustacea toxicity  | EC50 32 mg/l | 48 h Daphnia magna<br>(Water flea) |        |        |

### 12.2. Persistence and degradability

No data is available on the product itself.

### 12.3. Bioaccumulative potential

No data is available on the product itself.

### 12.4. Mobility in soil

no data available

### 12.5. Results of PBT and vPvB assessment

no data available

### 12.6. Other adverse effects

Discharge into the environment must be avoided.

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

### 13.1. Waste treatment methods

### Advice on disposal

In accordance with local and national regulations.

Our local agencies will accept used cuvettes to ensure their proper disposal.

# Waste disposal number of waste from residues/unused products

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals; hazardous waste

### Waste disposal number of used product

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals; hazardous waste

### Waste disposal number of contaminated packaging

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals; hazardous waste

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

| UN 3316      |
|--------------|
| Chemical kit |
| 9            |
| II           |
|              |



| Be Right <sup>™</sup> according to Regulation (EC) No 1907/2006   |   |                              |             |  |  |
|---|---|------------------------------|-------------|--|--|
| LCK 228 Kalium/Potassium, LCK B; 3/3         Revision date: 21.03.2017       Product code: LCK228-3       Page 7 of 8   |   |                              |             |  |  |
|   | FIGUUCICOU  |                              | Page 7 of 8 |  |  |
| Hazard label:   | °   |                              |             |  |  |
| Classification code:<br>Special Provisions:<br>Limited quantity:<br>Excepted quantity:<br>Transport category:<br>Hazard No:<br>Tunnel restriction code:<br>Inland waterways transport (ADN)<br>Other applicable information (inland water<br>Not tested   | M11<br>251 340<br>SP 251<br>SP 340<br>2<br>-<br>E |                              |             |  |  |
|   |   |                              |             |  |  |
| Marine transport (IMDG)<br><u>14.1. UN number:</u><br><u>14.2. UN proper shipping name:</u><br><u>14.3. Transport hazard class(es):</u><br><u>14.4. Packing group:</u><br>Hazard label:   | UN 3316<br>CHEMICAL KIT<br>9<br>II<br>9           |                              |             |  |  |
| Marine pollutant:<br>Special Provisions:<br>Limited quantity:<br>Excepted quantity:<br>EmS:   | -<br>251, 340<br>SP 251<br>SP 340<br>F-A, S-P     |                              |             |  |  |
| Air transport (ICAO-TI/IATA-DGR)  |   |                              |             |  |  |
| <u>14.1. UN number:</u><br><u>14.2. UN proper shipping name:</u><br><u>14.3. Transport hazard class(es):</u><br><u>14.4. Packing group:</u><br>Hazard label:  | UN 3316<br>CHEMICAL KIT<br>9<br>II<br>9           |                              |             |  |  |
| Special Provisions:<br>Limited quantity Passenger:<br>Passenger LQ:<br>Excepted quantity:<br>IATA-packing instructions - Passenger:<br>IATA-max. quantity - Passenger:<br>IATA-packing instructions - Cargo:<br>IATA-max. quantity - Cargo:<br><b>14.5. Environmental hazards</b><br>ENVIRONMENTALLY HAZARDOUS: | A44 A163<br>1 kg<br>Y960<br>E0                    | 960<br>10 kg<br>960<br>10 kg |             |  |  |



according to Regulation (EC) No 1907/2006

# LCK 228 Kalium/Potassium, LCK B; 3/3

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# 14.6. Special precautions for user

no data available

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not relevant

### Other applicable information

These transport data apply to the entire pack

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

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

### EU regulatory information

### Additional information

The product is classified as dangerous in accordance with Regulation (EC) No. 1272/2008.

### National regulatory information

Employment restrictions:

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). 2 - clearly water contaminating

# Water contaminating class (D): 15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

### **SECTION 16: Other information**

### Changes

Revision Date 21.03.2017 Safety datasheet sections which have been updated: 7, 9, 15

Revision: 1.03.2016 Safety datasheet sections which have been updated: 2, 11 Revision: 24.09.2014 Safety datasheet sections which have been updated: 4, 6, 7-12, 14, 15

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

H301 Toxic if swallowed.

### **Further Information**

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.