

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### LCK 304 Ammonium, Sample cuvette; 1/2

Revision date: 17.07.2018

Product code: LCK304-1

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

### 1.1. Product identifier

LCK 304 Ammonium, Sample cuvette; 1/2

### 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 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:

Skin corrosion/irritation: Skin Corr. 1B

Serious eye damage/eye irritation: Eye Dam. 1

Hazard Statements:

Causes severe skin burns and eye damage.

Causes serious eye damage.

### 2.2. Label elements

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

#### Hazard components for labelling

sodium hydroxide; caustic soda

Signal word: Danger

Pictograms:



#### Hazard statements

H314

Causes severe skin burns and eye damage.

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#### Precautionary statements

- P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 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

no data available

### 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   |              |          | >80 %    |
|           | 231-791-2   |              |          |          |
| 54-21-7   | Sodium salicylate   |              |          | <10 %    |
|           | 200-198-0   |              |          |          |
|           | Acute Tox. 4, Eye Irrit. 2; H302 H319                           |              |          |          |
| 6132-04-3 | tri-Sodium citrate dihydrate                                    |              |          | <10 %    |
|           | 200-675-3   |              |          |          |
| 1310-73-2 | sodium hydroxide; caustic soda                                  |              |          | <1,5 %   |
|           | 215-185-5   | 011-002-00-6 |          |          |
|           | Skin Corr. 1A; H314   |              |          |          |

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 all contaminated clothing immediately.

##### After inhalation

Move to fresh air.

##### After contact with skin

Wash off immediately with plenty of water.  
In the case of skin irritation or allergic reactions see a physician.

##### After contact with eyes

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

##### After ingestion

Clean mouth with water and drink afterwards plenty of water. Consult a physician.

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#### **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. The product itself does not burn.

##### **Unsuitable extinguishing media**

No Limit

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

Fire may liberate hazardous vapours.

#### **5.3. Advice for firefighters**

In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

#### **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**

Soak up with inert absorbent material and dispose of as hazardous waste.

#### **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.

##### **Advice on protection against fire and explosion**

See also section 5

##### **Further information on handling**

Observe label precautions.

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

##### **Requirements for storage rooms and vessels**

Keep refrigerated. (2-8 °C)

##### **Hints on joint storage**

None known.

#### **7.3. Specific end use(s)**

Reagent for analysis

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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure limits (EH40)

| CAS No    | Substance        | ppm | mg/m <sup>3</sup> | fibres/ml | Category      | Origin |
|-----------|------------------|-----|-------------------|-----------|---------------|--------|
| 1310-73-2 | Sodium hydroxide | -   | 2                 |           | 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

Wash hands before breaks and after work.  
General industrial hygiene practice.

#### Eye/face protection

Safety glasses with side-shields

#### Hand protection

Use barrier skin cream.

Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374. In full contact:

Gloves material: Viton, Layer thickness: 0.70 mm, Breakthrough time: &gt;480 min. In splash contact: Glove material: nitrile rubber, Layer thickness 0,20 mm, Breakthrough time: &gt; 30 min

#### Skin protection

Remove and wash contaminated clothing before re-use.

#### Respiratory protection

Provide adequate ventilation.

Breathing apparatus only if aerosol or dust is formed. Recommended Filter type: ABEK-filter

#### Environmental exposure controls

Do not flush into surface water or sanitary sewer system.

## 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): | 12         |

#### Changes in the physical state

|  |                   |
|--|-------------------|
| Melting point:                           | no data available |
| Initial boiling point and boiling range: | 100 °C            |
| Sublimation point:                       | not applicable    |
| Softening point:                         | not applicable    |
| Pour point:                              | no data available |
| :  | no data available |
| Flash point:                             | not applicable    |

#### Flammability

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Solid: no data available  
Gas: no data available

**Explosive properties**

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**

no data available

Vapour pressure: no data available

Vapour pressure: no data available

Density (at 20 °C): 1,02 g/cm<sup>3</sup>

Bulk density: no data available

Water solubility: completely soluble

**Solubility in other solvents**

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: 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**

Hazardous polymerisation does not occur.

**10.4. Conditions to avoid**

Extremes of temperature and direct sunlight.

**10.5. Incompatible materials**

None known.

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#### 10.6. Hazardous decomposition products

No decomposition if stored and applied as directed.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### Toxicokinetics, metabolism and distribution

No toxicology information is available.

##### Acute toxicity

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

No data is available on the product itself.

| CAS No    | Chemical name                |                     |         |        |        |  |
|-----------|------------------------------|---------------------|---------|--------|--------|--|
|           | Exposure route               | Dose                | Species | Source | Method |  |
| 54-21-7   | Sodium salicylate            |                     |         |        |        |  |
|           | oral                         | LD50 930<br>mg/kg   | Ratte   | RTECS  |        |  |
| 6132-04-3 | tri-Sodium citrate dihydrate |                     |         |        |        |  |
|           | oral                         | LD50 >8000<br>mg/kg | rat     |        |        |  |

##### Irritation and corrosivity

Causes severe skin burns and eye damage.

Causes severe caustic burns to skin and eyes.

##### Sensitising effects

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

No known effect.

##### Carcinogenic/mutagenic/toxic effects for reproduction

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

Contains no ingredient listed as a carcinogen

##### STOT-single exposure

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

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

##### STOT-repeated exposure

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

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

##### Aspiration hazard

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

No aspiration toxicity classification

##### Specific effects in experiment on an animal

No data is available on the product itself.

##### 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 data is available on the product itself.

Do not flush into surface water or sanitary sewer system.

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| CAS No    | Chemical name                  |              |           |         |                         |        |
|-----------|--------------------------------|--------------|-----------|---------|-------------------------|--------|
|           | Aquatic toxicity               | Dose         | [h]   [d] | Species | Source                  | Method |
| 54-21-7   | Sodium salicylate              |              |           |         |                         |        |
|           | Acute fish toxicity            | LC50<br>mg/l | 1760      | 96 h    |                         |        |
| 6132-04-3 | tri-Sodium citrate dihydrate   |              |           |         |                         |        |
|           | Acute crustacea toxicity       | EC50         | 736 mg/l  | 48 h    |                         |        |
| 1310-73-2 | sodium hydroxide; caustic soda |              |           |         |                         |        |
|           | Acute fish toxicity            | LC50<br>mg/l | 45,4      | 96 h    | Onchorhynchus<br>mykiss |        |

#### 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.

#### **Further information**

no data available

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

##### **Advice on disposal**

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

##### **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

##### **Contaminated packaging**

Dispose of as unused product.

### SECTION 14: Transport information

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

**14.1. UN number:** UN 3316

**14.2. UN proper shipping name:** Chemical kit

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**14.3. Transport hazard class(es):** 9

**14.4. Packing group:** II

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

#### Inland waterways transport (ADN)

##### Other applicable information (inland waterways transport)

Not tested

#### Marine transport (IMDG)

**14.1. UN number:** 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



Marine pollutant: -

Special Provisions: 251, 340

Limited quantity: See SP251

Excepted quantity: SP340

EmS: F-A, S-P

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

**14.1. UN number:** 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



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

IATA-packing instructions - Cargo: 960

IATA-max. quantity - Cargo: 10 kg

#### 14.5. Environmental hazards



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ENVIRONMENTALLY HAZARDOUS: no

**14.6. Special precautions for user**

Use personal protective equipment.

**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****National regulatory information**

Water contaminating class (D): 1 - slightly 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 17.07.2018

Safety datasheet sections which have been updated: 2, 3, 15, 16

Revision Date 03.05.2018

Safety datasheet sections which have been updated: 2, 4, 8, 13

Revision Date 09.03.2017

Safety datasheet sections which have been updated: 14

Revision: 26.01.2015

Safety datasheet sections which have been updated: 14

Revision: 30.09.2014

Safety datasheet sections which have been updated: 11

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

| Classification      | Classification procedure |
|---------------------|--------------------------|
| Skin Corr. 1B; H314 | On basis of test data    |
| Eye Dam. 1; H318    | On basis of test data    |

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

H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H319 Causes serious eye irritation.

**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 304 Ammonium, DosiCapZip; 2/2

**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 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:

Acute toxicity: Acute Tox. 4

Serious eye damage/eye irritation: Eye Irrit. 2

Hazardous to the aquatic environment: Aquatic Chronic 2

Hazard Statements:

Harmful if swallowed.

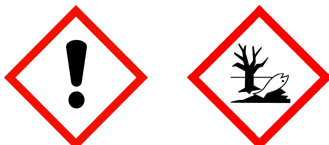
Causes serious eye irritation.

Toxic to aquatic life with long lasting effects.

**2.2. Label elements****Regulation (EC) No. 1272/2008****Hazard components for labelling**

troclosene sodium, dihydrate

Sodium nitroprusside dihydrate

**Signal word:** Warning**Pictograms:**

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**Hazard statements**

|      |  |
|------|--|
| H302 | Harmful if swallowed.                            |
| H319 | Causes serious eye irritation.                   |
| H411 | Toxic to aquatic life with long lasting effects. |

**Precautionary statements**

|                |  |
|----------------|--|
| P280           | Wear protective gloves/protective clothing/eye protection/face protection.   |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P337+P313      | If eye irritation persists: Get medical advice/attention.  |

**Special labelling of certain mixtures**

|        |   |
|--------|---|
| EUH031 | Contact with acids liberates toxic gas. |
|--------|---|

**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]   |          |
| 69-65-8    | D(-)-Mannitol   | 76 %     |
|            | 200-711-8   |          |
| 51580-86-0 | troclosene sodium, dihydrate  | 12 %     |
|            | 220-767-7                      613-030-01-7   |          |
|            | Acute Tox. 4, Eye Irrit. 2, STOT SE 3, Aquatic Acute 1, Aquatic Chronic 1; H302 H319 H335 H400<br>H410 EUH031 |          |
| 13755-38-9 | Sodium nitroprusside dihydrate  | 12 %     |
|            | 238-373-9   |          |
|            | 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 all contaminated clothing immediately.

**After inhalation**

Move to fresh air.

**After contact with skin**

Wash off immediately with plenty of water.

In the case of skin irritation or allergic reactions see a physician.

**After contact with eyes**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**After ingestion**

Clean mouth with water and drink afterwards plenty of water. Consult a physician.

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

Harmful if swallowed.  
Contact with acids liberates toxic gas.

#### **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. The product itself does not burn.

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

Fire may liberate hazardous vapours.

#### **5.3. Advice for firefighters**

In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

##### **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**

Use mechanical handling equipment. 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 refrigerated. (2-8 °C)

#### **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**

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#### 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 after work.

#### Eye/face protection

Safety glasses with side-shields

#### Hand protection

Use barrier skin cream.

Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374. 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

Remove and wash contaminated clothing before re-use.

#### Respiratory protection

Provide adequate ventilation.

Breathing apparatus only if aerosol or dust is formed. Recommended Filter type: ABEK-filter

#### Environmental exposure controls

Do not flush into surface water or sanitary sewer system.

## SECTION 9: Physical and chemical properties

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

|                      |                  |
|----------------------|------------------|
| Physical state:      | lyophilised cake |
| Colour:              | beige            |
| Odour:               | odourless        |
| pH-Value (at 20 °C): | 7 (5 % solution) |

#### Changes in the physical state

|  |                   |
|--|-------------------|
| Melting point:                           | no data available |
| Initial boiling point and boiling range: | not applicable    |
| Sublimation point:                       | no data available |
| Softening point:                         | no data available |
| Pour point:                              | not applicable    |
| :  | no data available |
| Flash point:                             | not applicable    |

#### Flammability

|        |                   |
|--------|-------------------|
| Solid: | no data available |
| Gas:   | no data available |

#### Explosive properties

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 |

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Decomposition temperature: no data available

**Oxidizing properties**

no data available

Vapour pressure: no data available

Vapour pressure: no data available

Density: no data available

Bulk density: no data available

Water solubility:  
(at 20 °C) 160 g/L**Solubility in other solvents**

no data available

Partition coefficient: not applicable

Viscosity / dynamic: not applicable

Viscosity / kinematic: not applicable

Flow time: not applicable

Vapour density: not applicable

Evaporation rate: not applicable

Solvent separation test: not applicable

Solvent content: not applicable

**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**

Hazardous polymerisation does not occur.

**10.4. Conditions to avoid**

Extremes of temperature and direct sunlight.

Protect from moisture.

**10.5. Incompatible materials**

May develop chlorine if mixed with acidic solutions.

**10.6. Hazardous decomposition products**

Carbon monoxide

May develop chlorine if mixed with acidic solutions.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Acute toxicity**

Harmful if swallowed.

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| CAS No     | Chemical name                  |               |          |        |        |
|------------|--------------------------------|---------------|----------|--------|--------|
|            | Exposure route                 | Dose          | Species  | Source | Method |
| 69-65-8    | D(-)-Mannitol                  |               |          |        |        |
|            | oral                           | LD50<br>mg/kg | 135000   | Ratte  |        |
| 51580-86-0 | troclosene sodium, dihydrate   |               |          |        |        |
|            | oral                           | ATE<br>mg/kg  | 500      |        |        |
| 13755-38-9 | Sodium nitroprusside dihydrate |               |          |        |        |
|            | oral                           | LD50          | 99 mg/kg | rat    |        |

**Irritation and corrosivity**

May cause eye irritation.

**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

**Practical experience**
**Observations relevant to classification**

Harmful if swallowed.

**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 data is available on the product itself.

Do not flush into surface water or sanitary sewer system.

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

| CAS No     | Chemical name                |              |           |         |        |        |
|------------|------------------------------|--------------|-----------|---------|--------|--------|
|            | Aquatic toxicity             | Dose         | [h]   [d] | Species | Source | Method |
| 51580-86-0 | troclosene sodium, dihydrate |              |           |         |        |        |
|            | Acute fish toxicity          | LC50<br>mg/l | 0,46      | 96 h    |        |        |
|            | Acute crustacea toxicity     | EC50<br>mg/l | 0,17      | 48 h    |        |        |

**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

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#### 12.5. Results of PBT and vPvB assessment

no data available

#### 12.6. Other adverse effects

Discharge into the environment must be avoided.

#### **Further information**

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

##### **Advice on disposal**

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

##### **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

##### **Contaminated packaging**

Dispose of as unused product.

### SECTION 14: Transport information

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

|   |              |
|---|--------------|
| <b><u>14.1. UN number:</u></b>                  | UN 3316      |
| <b><u>14.2. UN proper shipping name:</u></b>    | Chemical kit |
| <b><u>14.3. Transport hazard class(es):</u></b> | 9            |
| <b><u>14.4. Packing group:</u></b>              | II           |
| 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       |

#### **Inland waterways transport (ADN)**

##### **Other applicable information (inland waterways transport)**

Not tested

#### **Marine transport (IMDG)**



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**14.1. UN number:** 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



Marine pollutant: -  
 Special Provisions: 251, 340  
 Limited quantity: See SP251  
 Excepted quantity: SP340  
 EmS: F-A, S-P

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

**14.1. UN number:** 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



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  
 IATA-packing instructions - Cargo: 960  
 IATA-max. quantity - Cargo: 10 kg

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: yes



Danger releasing substance: troclosene sodium, dihydrate

**14.6. Special precautions for user**

Use personal protective equipment.

**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**

**National regulatory information**

Water contaminating class (D): 3 - highly water contaminating

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**15.2. Chemical safety assessment**

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

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

Revision Date 17.07.2018

Safety datasheet sections which have been updated: 11, 15, 16

Revision Date 03.05.2018

Safety datasheet sections which have been updated: 2, 4, 8, 13

Revision: 23.01.2015

Safety datasheet sections which have been updated: 14

Revision: 26.08.2013

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

| Classification          | Classification procedure |
|-------------------------|--------------------------|
| Acute Tox. 4; H302      | Calculation method       |
| Eye Irrit. 2; H319      | Calculation method       |
| Aquatic Chronic 2; H411 | Calculation method       |

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

|        |   |
|--------|---|
| H301   | Toxic if swallowed.                                   |
| H302   | Harmful if swallowed.                                 |
| H319   | Causes serious eye irritation.                        |
| H335   | May cause respiratory irritation.                     |
| 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.      |
| EUH031 | Contact with acids liberates toxic gas.               |

**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.)*