

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### LCK 341 Nitrit/Nitrite, Sample cuvette; 1/2

Revision date: 20.11.2017

Product code: LCK341-1

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

##### 1.1. Product identifier

LCK 341 Nitrit/Nitrite, 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.<br>5, Pacific Way<br>Salford Manchester M50 1DL - United Kingdom<br>Tel. +44 (0) 161 872 1487 * Fax +44 (0) 161 848 7324<br>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 Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Hazard Statements:

Causes skin irritation.

Causes serious eye irritation.

##### 2.2. Label elements

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

###### Hazard components for labelling

Citric acid

Signal word: Warning

Pictograms:



###### Hazard statements

H315

Causes skin irritation.

H319

Causes serious eye irritation.

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#### Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P302+P352 IF ON SKIN: Wash with plenty of water.  
 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.

#### 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 |          |
|           | GHS Classification                     |          |          |          |
| 7732-18-5 | Water                                  |          |          | < 80%    |
|           | 231-791-2                              |          |          |          |
| 77-92-9   | Citric acid                            |          |          | 10-20%   |
|           | 201-069-1                              |          |          |          |
|           | Skin Irrit. 2, Eye Irrit. 2; H315 H319 |          |          |          |

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.  
 Consult a physician. Show this safety data sheet to the doctor in attendance.

##### After inhalation

Move to fresh air.  
 If symptoms persist, call a physician.

##### After contact with skin

Wash off immediately with plenty of water for at least 15 minutes.  
 Take off all contaminated clothing immediately.

##### 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. Show this safety data sheet to the doctor in attendance.

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

irritant effects

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

Treat symptomatically.

### SECTION 5: Firefighting measures

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### 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**

None known.

### 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. In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing.

#### **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. Only qualified personnel equipped with suitable protective equipment may intervene. Immediately evacuate personnel to safe areas.

Do not breathe vapours, mist or gas. 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

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local/national regulations (see section 13).

### 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**

None known.

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

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

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

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

None known.

### 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.

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#### 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 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 0.40 mm, Breakthrough time: > 30 min

##### Skin protection

Avoid contact with skin, eyes and clothing.

Remove and wash contaminated clothing before re-use.

##### Respiratory protection

Provide adequate ventilation.

## 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): |            | 2,5 |

#### Changes in the physical state

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

#### Flammability

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

#### Explosive properties

no data available

|                         |                   |
|-------------------------|-------------------|
| Lower explosion limits: | no data available |
| Upper explosion limits: | no data available |
| Ignition temperature:   | no data available |

#### Auto-ignition temperature

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

|                            |                   |
|----------------------------|-------------------|
| Decomposition temperature: | no data available |
|----------------------------|-------------------|

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#### **Oxidizing properties**

no data available

Vapour pressure:

no data available

Vapour pressure:

no data available

Density (at 20 °C):

1,00 g/cm<sup>3</sup>

Bulk density:

not applicable

Water solubility:

completely soluble

(at 20 °C)

#### **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

## SECTION 10: Stability and reactivity

### **10.1. Reactivity**

No dangerous reaction known under conditions of normal use.

### **10.2. Chemical stability**

The product is chemically stable.

### **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**

Oxidizing agents

### **10.6. Hazardous decomposition products**

No decomposition if stored and applied as directed.

#### **Further information**

Stable under recommended storage conditions.

## SECTION 11: Toxicological information

### **11.1. Information on toxicological effects**

#### **Toxicokinetics, metabolism and distribution**

No toxicology information is available.

#### **Acute toxicity**

No data is available on the product itself.

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| CAS No  | Chemical name  |               |         |        |        |
|---------|----------------|---------------|---------|--------|--------|
|         | Exposure route | Dose          | Species | Source | Method |
| 77-92-9 | Citric acid    |               |         |        |        |
|         | oral           | LD50<br>mg/kg | 3000    | rat    | IUCLID |
|         | dermal         | LD50<br>mg/kg | >2000   | rat    | IUCLID |

**Irritation and corrosivity**

May cause eye and skin irritation.

**Sensitising effects**

No sensitisation responses were observed.

**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 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.

| CAS No  | Chemical name            |              |           |         |                                 |        |
|---------|--------------------------|--------------|-----------|---------|---------------------------------|--------|
|         | Aquatic toxicity         | Dose         | [h]   [d] | Species | Source                          | Method |
| 77-92-9 | Citric acid              |              |           |         |                                 |        |
|         | Acute fish toxicity      | LC50<br>mg/l | 440-760   | 96 h    | Leuciscus idus<br>(Golden orfe) |        |
|         | Acute crustacea toxicity | EC50         | 160 mg/l  | 48 h    | Crustacea                       |        |

**12.2. Persistence and degradability**

No data is available on the product itself.

| CAS No  | Chemical name                   |          |   |        |
|---------|---------------------------------|----------|---|--------|
|         | Method                          | Value    | d | Source |
|         | Evaluation                      |          |   |        |
| 77-92-9 | Citric acid                     |          |   |        |
|         | OECD Test Guideline 302         | 98 %     | 2 | IUCLID |
|         | Biochemical Oxygen Demand (BOD) | 526 mg/g | 5 | IUCLID |

**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

no data available

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

##### **Disposal recommendations**

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

##### **List of Wastes Code - 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

##### **List of Wastes Code - 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

### SECTION 14: Transport information

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

##### **Other applicable information (land transport)**

Not subject to transport regulations.

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

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

Not tested

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

##### **Other applicable information (marine transport)**

Not subject to transport regulations.

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

##### **Other applicable information (air transport)**

Not subject to transport regulations.

#### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

#### 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**

Additional Information: This product may be shipped as part of a chemical kit composed of various compatible dangerous goods for analytical or testing purposes. This kit would have the following classification: Proper Shipping Name: Chemical Kit, Hazard Class: 9, UN Number 3316, Package group II, EMS Code: F-A, S-P

### 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

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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: 20.11.2017

Safety datasheet sections which have been updated: 11, 15

Revision: 16.03.2016

Safety datasheet sections which have been updated: 2, 4, 16

Revision: 05.03.2014

Safety datasheet sections which have been updated: 2

Revision: 23.07.2013

Safety datasheet sections which have been updated: 4-12,15

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

| Classification      | Classification procedure |
|---------------------|--------------------------|
| Skin Irrit. 2; H315 | Calculation method       |
| Eye Irrit. 2; H319  | Calculation method       |

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

H315 Causes skin irritation.

H319 Causes serious eye irritation.

##### Further Information

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

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



**Safety Data Sheet**

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

LCK 341 Nitrit/Nitrite, 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:

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Respiratory or skin sensitisation: Skin Sens. 1

Hazard Statements:

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

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

1-Naphthylamine sulfonic acid salt, Sulphanilic acid sodium salt

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

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**Hazard statements**

|      |                                      |
|------|--------------------------------------|
| H319 | Causes serious eye irritation.       |
| H315 | Causes skin irritation.              |
| H317 | May cause an allergic skin reaction. |

**Precautionary statements**

|           |                                                                            |
|-----------|----------------------------------------------------------------------------|
| P280      | Wear protective gloves/protective clothing/eye protection/face protection. |
| 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**

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                               |          |
|              | GHS Classification                     |          |
| 69-65-8      | D(-)-Mannitol                          | < 70%    |
|              | 200-711-8                              |          |
| confidential | 1-Naphthylamine sulfonic acid salt     | < 25 %   |
|              | Skin Irrit. 2, Eye Irrit. 2; H315 H319 |          |
| 6106-22-5    | Sulphanilic acid sodium salt           | < 15 %   |
|              | -                                      |          |
|              | Eye Irrit. 2A, Skin Sens. 1; H319 H317 |          |
| 1310-73-2    | sodium hydroxide; caustic soda         | < 0,25 % |
|              | 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.  
Consult a physician. Show this safety data sheet to the doctor in attendance.

**After inhalation**

Move to fresh air.  
If symptoms persist, call a physician.

**After contact with skin**

Wash off immediately with plenty of water for at least 15 minutes.  
Take off all contaminated clothing immediately.

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**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. Show this safety data sheet to the doctor in attendance.

**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. In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing.

**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. Only qualified personnel equipped with suitable protective equipment may intervene. Immediately evacuate personnel to safe areas.

Do not breathe vapours, mist or gas. 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**

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local/national regulations (see section 13).

**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.

Do not breathe vapours/dust.

**Advice on protection against fire and explosion**

None known.

**Further information on handling**

Observe label precautions.

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Avoid contact with skin, eyes and clothing.

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

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

**Hints on joint storage**

None known.

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

Reagent for analysis

**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.

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

Handle in accordance with good industrial hygiene and safety practice.

**Protective and hygiene measures**

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 0.40 mm, Breakthrough time: > 30 min

**Skin protection**

Avoid contact with skin, eyes and clothing.

Remove and wash contaminated clothing before re-use.

**Respiratory protection**

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

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state: solid (lyophilised)

Colour: white

Odour: odourless

pH-Value (at 20 °C): 7-8

**Changes in the physical state**

Melting point: no data available

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|                                          |                    |
|------------------------------------------|--------------------|
| Initial boiling point and boiling range: | not applicable     |
| Sublimation point:                       | no data available  |
| Softening point:                         | not applicable     |
| Pour point:                              | not applicable     |
| :                                        | no data available  |
| Flash point:                             | not applicable     |
| <b>Flammability</b>                      |                    |
| Solid:                                   | no data available  |
| Gas:                                     | no data available  |
| <b>Explosive properties</b>              |                    |
| no data available                        |                    |
| Lower explosion limits:                  | no data available  |
| Upper explosion limits:                  | no data available  |
| Ignition temperature:                    | no data available  |
| <b>Auto-ignition temperature</b>         |                    |
| Solid:                                   | no data available  |
| Gas:                                     | no data available  |
| Decomposition temperature:               | no data available  |
| <b>Oxidizing properties</b>              |                    |
| no data available                        |                    |
| Vapour pressure:                         | no data available  |
| Vapour pressure:                         | no data available  |
| Density:                                 | not applicable     |
| Bulk density:                            | no data available  |
| Water solubility:<br>(at 20 °C)          | completely soluble |
| <b>Solubility in other solvents</b>      |                    |
| no data available                        |                    |
| Partition coefficient:                   | not applicable     |
| Viscosity / dynamic:                     | not applicable     |
| Viscosity / kinematic:                   | not applicable     |
| Flow time:                               | not applicable     |
| Vapour density:                          | no data available  |
| Evaporation rate:                        | not applicable     |
| Solvent separation test:                 | no data available  |
| Solvent content:                         | no data available  |
| <b>9.2. Other information</b>            |                    |
| Solid content:                           | no data available  |

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No dangerous reaction known under conditions of normal use.

**10.2. Chemical stability**

The product is chemically stable.

**10.3. Possibility of hazardous reactions**

## Safety Data Sheet

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**LCK 341 Nitrit/Nitrite, DosiCapZip; 2/2**

Revision date: 20.11.2017

Product code: LCK341-2

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No hazardous decomposition products are known.

**10.4. Conditions to avoid**

Extremes of temperature and direct sunlight.

**10.5. Incompatible materials**

None known.

**10.6. Hazardous decomposition products**

No decomposition if stored and applied as directed.

**Further information**

Stable under recommended storage conditions.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Toxicokinetics, 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 |
| 69-65-8 | D(-)-Mannitol  |               |         |        |        |
|         | oral           | LD50<br>mg/kg | 135000  | Ratte  |        |

**Irritation and corrosivity**

May cause eye and skin irritation.

**Sensitising effects**

May cause sensitisation by skin contact.

**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**

None known.

**Additional information on tests**

None known.

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

None known.

**Other observations**

None known.

**Further information**

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

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#### 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.

| CAS No    | Chemical name                  |              |           |         |                         |        |
|-----------|--------------------------------|--------------|-----------|---------|-------------------------|--------|
|           | Aquatic toxicity               | Dose         | [h]   [d] | Species | Source                  | Method |
| 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

no data available

#### SECTION 13: Disposal considerations

##### 13.1. Waste treatment methods

###### Disposal recommendations

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

In accordance with local and national regulations.

###### List of Wastes Code - 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

###### List of Wastes Code - 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

#### SECTION 14: Transport information

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

###### Other applicable information (land transport)

Not subject to transport regulations.

##### Inland waterways transport (ADN)

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

Not tested

##### Marine transport (IMDG)

###### Other applicable information (marine transport)

Not subject to transport regulations.

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

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**Other applicable information (air transport)**

Not subject to transport regulations.

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: no

**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**

Additional Information: This product may be shipped as part of a chemical kit composed of various compatible dangerous goods for analytical or testing purposes. This kit would have the following classification: Proper Shipping Name: Chemical Kit, Hazard Class: 9, UN Number 3316, Package group II, EMS Code: F-A, S-P

**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: 20.11.2017

Safety datasheet sections which have been updated: 11

Revision: 2.09.2015

Safety datasheet sections which have been updated: 2, 11

Revision: 23.07.2013

Safety datasheet sections which have been updated: 4-12, 15

Revision: 05.03.2014

Safety datasheet sections which have been updated: 2

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

| Classification      | Classification procedure |
|---------------------|--------------------------|
| Skin Irrit. 2; H315 | Calculation method       |
| Eye Irrit. 2; H319  | Calculation method       |
| Skin Sens. 1; H317  | Calculation method       |

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

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

**Further Information**

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

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