

## Safety Data Sheet

according to 2001/58/EC

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

Print date : 20.04.2007

Product code : LCK341-1

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#### 1. Identification of the substance/preparation and of the company/undertaking

##### Identification of the substance or preparation

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

##### Use of the substance/preparation

Water analysis

##### Company/undertaking identification

Company name : HACH LANGE GmbH  
Street : Willstätterstr. 11  
Place : D-40549 Düsseldorf

e-mail : info@hach-lange.de  
Internet : www.hach-lange.com

Inquiry office : HACH LANGE Ltd.  
Pacific Way  
Salford Manchester M50 1DL - United Kingdom  
Tel. +44 (0) 161 872 1487  
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HACH LANGE Ltd.  
Unit 1, Chestnut Road Western Industrial Estate  
Dublin 12 - Ireland  
Tel. +353 (0)1 4602522  
e-Mail: info@hach-lange.ie

#### 2. Composition/information on ingredients

Chemical characterization ( preparation )

##### Hazardous components

EC-No.	CAS-No.	Chemical name	Quantity	Classification
213-791-2	7732-18-5	Water	< 80%	
201-069-1	77-92-9	Citric acid	< 20%	Xi R36

Full text of each relevant R phrase can be found in heading 16.

#### 3. Hazards identification

#### 4. 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.

##### After contact with skin

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

##### After contact with eyes

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

##### After ingestion

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Clean mouth with water and drink afterwards plenty of water.  
Consult a physician. Show this safety data sheet to the doctor in attendance.

#### Advice to doctor

Treat symptomatically.

### 5. Fire-fighting measures

#### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. The product itself does not burn.

#### Special exposure hazards arriving from substance or preparation itself, combustion products, resulting gases

Fire may liberate hazardous vapours.

#### Special protective equipment for fire-fighters

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.

### 6. Accidental release measures

#### Personal precautions

Use personal protective equipment.

#### Environmental precautions

Do not flush into surface water or sanitary sewer system.

#### Methods for cleaning up/taking up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

### 7. Handling and storage

#### Handling

##### Advice on safe handling

Use only in well-ventilated areas. Do not breathe vapours/dust.

#### Storage

##### Requirements for storage rooms and vessels

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

##### Further information on storage conditions

Keep locked up or in an area accessible only to qualified or authorised persons.

### 8. Exposure controls/personal protection

#### Exposure limit values

#### 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 after work.

##### Respiratory protection

Provide adequate ventilation.

##### Hand protection

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Use barrier skin cream.  
Chemical resistant protective gloves  
The protective gloves to be used must comply with the specifications of EC directive 89/686/EEC and the resultant standard EN374.

#### Eye protection

Safety glasses with side-shields

#### Skin protection

Avoid contact with skin, eyes and clothing.  
Remove and wash contaminated clothing before re-use.

## 9. Physical and chemical properties

### General information

Physical state : liquid  
Colour : colourless  
Odour : odourless

### Important health, safety and environmental information

Test method

2,5

#### Changes in the physical state

Flash point : not applicable  
Lower explosion limits : not applicable  
Upper explosion limits : not applicable  
1,00 g/cm<sup>3</sup>  
completely soluble

## 10. Stability and reactivity

#### Conditions to avoid

No dangerous reaction known under conditions of normal use.

## 11. Toxicological information

#### Acute toxicity

No data is available on the product itself.

#### Specific effects in experiment on an animal

No data is available on the product itself.

## 12. Ecological information

#### Ecotoxicity

No data is available on the product itself.  
Do not flush into surface water or sanitary sewer system.

## 13. Disposal considerations

#### 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 dangerous substances, including mixtures of laboratory chemicals  
Classified as hazardous waste.

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#### 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 dangerous substances, including mixtures of laboratory chemicals  
Classified as hazardous waste.

## 14. Transport information

### Land transport (ADR/RID)

#### Remarks (land transport)

Not subject to transport regulations.

### Inland waterways transport

#### Remarks (inland waterways transport)

Not tested

### Marine transport

#### Remarks (marine transport)

Not subject to transport regulations.

### Air transport

#### Remarks (air transport)

Not subject to transport regulations.

## 15. Regulatory information

### Labelling

Labelling according to EC-guidelines : Classification according to European directive on classification of hazardous preparations 1999/45/EC.

### Additional information on EC regulations

The product does not need to be labelled in accordance with EC directives or respective national laws.

### National regulations

Water contaminating class : 1 - slightly water contaminating

## 16. Other information

### Full text of R-phrases referred to under sections 2 and 3

36 Irritating to eyes.

### Other data

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.

# Safety Data Sheet

according to 2001/58/EC

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

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### 1. Identification of the substance/preparation and of the company/undertaking

#### Identification of the substance or preparation

LCK 341 Nitrit/Nitrite, DosiCapZip; 2/2

#### Use of the substance/preparation

Water analysis

#### Company/undertaking identification

Company name : HACH LANGE GmbH  
Street : Willstätterstr. 11  
Place : D-40549 Düsseldorf

e-mail : info@hach-lange.de  
Internet : www.hach-lange.com

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Unit 1, Chestnut Road Western Industrial Estate  
Dublin 12 - Ireland  
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e-Mail: info@hach-lange.ie

### 2. Composition/information on ingredients

Chemical characterization ( preparation )

#### Hazardous components

EC-No.	CAS-No.	Chemical name	Quantity	Classification
200-711-8	69-65-8	D(-)-Mannitol	< 70%	
		1-Naphthylamine sulfonic acid salt	< 25 %	C R34
215-185-5	1310-73-2	caustic soda, sodium hydroxide	< 0,25 %	C R35

Full text of each relevant R phrase can be found in heading 16.

### 3. Hazards identification

#### Classification

Indications of danger : Irritant  
R-phrases :  
Irritating to eyes, respiratory system and skin.

### 4. 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.

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#### After contact with skin

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

#### 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.

#### Advice to doctor

Treat symptomatically.

### 5. Fire-fighting measures

#### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. The product itself does not burn.

#### Special exposure hazards arriving from substance or preparation itself, combustion products, resulting gases

Fire may liberate hazardous vapours.

#### Special protective equipment for fire-fighters

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.

### 6. Accidental release measures

#### Personal precautions

Use personal protective equipment.

#### Environmental precautions

Do not flush into surface water or sanitary sewer system.

#### Methods for cleaning up/taking up

Use mechanical handling equipment.

After cleaning, flush away traces with water.

### 7. Handling and storage

#### Handling

##### Advice on safe handling

Use only in well-ventilated areas.

Do not breathe vapours/dust.

#### Storage

##### Requirements for storage rooms and vessels

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

##### Further information on storage conditions

Keep locked up or in an area accessible only to qualified or authorised persons.

### 8. Exposure controls/personal protection

#### Exposure limit values

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#### Exposure limits (EH40)

CAS No.	Substance	ml/m <sup>3</sup>	mg/m <sup>3</sup>	F/ml	Category	Origin
1310-73-2	Sodium hydroxide	-	-		TWA (8 h)	WEL
		-	2		STEL (15 min)	WEL

#### 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 after work.

##### Respiratory protection

Provide adequate ventilation.

##### Hand protection

Use barrier skin cream.

Chemical resistant protective gloves

The protective gloves to be used must comply with the specifications of EC directive 89/686/EEC and the resultant standard EN374.

##### Eye protection

Safety glasses with side-shields

##### Skin protection

Avoid contact with skin, eyes and clothing.

Remove and wash contaminated clothing before re-use.

## 9. Physical and chemical properties

#### General information

Physical state : solid  
 Colour : white  
 Odour : odourless

#### Important health, safety and environmental information

Test method

7-8

##### Changes in the physical state

Flash point : not applicable  
 Lower explosion limits : not applicable  
 Upper explosion limits : not applicable  
 completely soluble

## 10. Stability and reactivity

#### Conditions to avoid

No dangerous reaction known under conditions of normal use.

## 11. Toxicological information

#### Acute toxicity

No data is available on the product itself.

#### Specific effects in experiment on an animal

No data is available on the product itself.

#### Corrosive and irritant effects

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

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## 12. Ecological information

### Ecotoxicity

No data is available on the product itself.  
Do not flush into surface water or sanitary sewer system.

## 13. Disposal considerations

### 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 dangerous substances, including mixtures of laboratory chemicals  
Classified as hazardous waste.

### Waste disposal number of used product

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## 14. Transport information

### Land transport (ADR/RID)

#### Remarks (land transport)

Not subject to transport regulations.

### Inland waterways transport

#### Remarks (inland waterways transport)

Not tested

### Marine transport

#### Remarks (marine transport)

Not subject to transport regulations.

### Air transport

#### Remarks (air transport)

Not subject to transport regulations.

## 15. Regulatory information

### Labelling

Danger symbols :

Xi - Irritant



Xi - Irritant

Labelling according to EC-guidelines :

Classification according to European directive on classification of hazardous preparations 1999/45/EC.

### Hazardous component(s) to be indicated on label

1-Naphtylamine Sulphonic Acid Salt



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#### R phrases

36/37/38 Irritating to eyes, respiratory system and skin.

#### S phrases

24/25 Avoid contact with skin and eyes.

37/39 Wear suitable gloves and eye/face protection.

#### National regulations

Water contaminating class : 1 - slightly water contaminating

### 16. Other information

#### Full text of R-phrases referred to under sections 2 and 3

34 Causes burns.

35 Causes severe burns.

36/37/38 Irritating to eyes, respiratory system and skin.

#### Other data

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.