

## Safety Data Sheet

according to 2001/58/EC

### LCK 302 Ammonium, Sample cuvette; 1/2

Print date : 22.02.2006

Product code : LCK302-1

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

##### 1.1 Identification of the substance or preparation

LCK 302 Ammonium, Sample cuvette; 1/2

##### Use of the substance/preparation

Water analysis

##### 1.2 Company/undertaking identification

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

e-mail info@hach-lange.de  
Inquiry office

Telephone +49(0)2115288 0  
Telefax +49(0)2115288143

HACH LANGE Ltd.  
Pacific Way  
Salford Manchester M50 1DL - England  
Tel. +44 (0) 161 872 1487  
e-Mail: info@hach-lange.co.uk

#### 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	>95 %	
215-185-5	1310-73-2	caustic soda, sodium hydroxide	<0,2 %	C R35

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

#### 3. Hazards identification

##### Classification

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

#### 4. 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.

##### 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.

##### Advice to doctor

Treat symptomatically.

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#### 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. Use personal protective equipment.

##### 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 and dispose of as hazardous waste.

#### 7. Handling and storage

##### 7.1 Handling

###### Advice on safe handling

Use only in well-ventilated areas.

##### 7.2 Storage

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

Keep in a dry, cool place.

#### 8. Exposure controls/personal protection

##### 8.1 Exposure limit values

###### 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

##### 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.

###### Hand protection

Use barrier skin cream.

Wash hands before breaks and after work.

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.

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#### Eye protection

safety glasses with side-shields

#### Skin protection

Remove and wash contaminated clothing before re-use.

## 9. Physical and chemical properties

### 9.1 General information

Physical state	liquid
Colour	colourless
Odour	odourless

### 9.2 Important health, safety and environmental information

	Test method
pH-Value (at 20 °C) :	12,5
<b>Changes in the physical state</b>	
Melting point	0 °C
Boiling point	100 °C
Flash point	not applicable
Lower explosion limits	not applicable
Upper explosion limits	not applicable
Density (at 20 °C) :	1,02 g/cm <sup>3</sup>
Water solubility :	completely soluble

## 10. Stability and reactivity

#### Conditions to avoid

No dangerous reaction known under conditions of normal use.

#### Materials to avoid

No dangerous reaction known under conditions of normal use.

#### Hazardous decomposition products

No decomposition if stored and applied as directed.

## 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.

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#### 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

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

### 15.1 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.

### 15.2 National regulations

Water contaminating class

- - not water contaminating

## 16. Other information

#### List of relevant R phrases

35 Causes severe burns.

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

## Safety Data Sheet

according to 2001/58/EC

### LCK 302 Ammonium, DosiCapZip; 2/2

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Product code : LCK302-2

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

##### 1.1 Identification of the substance or preparation

LCK 302 Ammonium, DosiCapZip; 2/2

##### Use of the substance/preparation

Water analysis

##### 1.2 Company/undertaking identification

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

e-mail info@hach-lange.de  
Inquiry office

Telephone +49(0)2115288 0  
Telefax +49(0)2115288143

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Pacific Way  
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e-Mail: info@hach-lange.co.uk

#### 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	76 %	
220-767-7	51580-86-0	troclosene sodium, dihydrate	12 %	Xn, Xi, N R22-31-36/37-50-53
238-373-9	13755-38-9	Sodium nitroprusside dihydrate	12 %	T R25

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

#### 3. Hazards identification

##### Classification

Symbols : Harmful, Dangerous for the environment

R-phrases :

Harmful if swallowed.

Contact with acids liberates toxic gas.

Irritating to eyes and skin.

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

#### 4. 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.

##### After contact with eyes

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

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#### After ingestion

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

#### 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. Use personal protective equipment.

#### 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.

### 7. Handling and storage

#### 7.1 Handling

##### Advice on safe handling

Use only in well-ventilated areas.

#### 7.2 Storage

##### Requirements for storage rooms and vessels

Keep in a dry, cool place.

### 8. Exposure controls/personal protection

#### 8.1 Exposure limit values

#### 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.

##### Hand protection

Use barrier skin cream.

Wash hands before breaks and after work.

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.

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#### Eye protection

safety glasses with side-shields

### 9. Physical and chemical properties

#### 9.1 General information

Physical state	solid
Colour	white
Odour	characteristic

#### 9.2 Important health, safety and environmental information

pH-Value (at 20 °C) :

7 ( 5 % solution)

Test method

#### Changes in the physical state

Flash point	not applicable
Lower explosion limits	not applicable
Upper explosion limits	not applicable
Water solubility : at (20 °C)	160 g/L

### 10. Stability and reactivity

#### Conditions to avoid

No dangerous reaction known under conditions of normal use.

#### Materials to avoid

May develop chlorine if mixed with acidic solutions.

#### Hazardous decomposition products

Carbon monoxide  
May develop chlorine if mixed with acidic solutions.

### 11. Toxicological information

#### Acute toxicity

No data is available on the product itself.

#### Corrosive and irritant effects

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

### 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

### 15.1 Labelling

Indication of danger

Xn - Harmful; N - Dangerous for the environment



Xn - Harmful

N - Dangerous for the environment

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

troclosene sodium, dihydrate  
Sodium nitroprusside dihydrate

#### R phrases

- 22 Harmful if swallowed.
- 31 Contact with acids liberates toxic gas.
- 36/38 Irritating to eyes and skin.
- 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### S phrases

- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 35 This material and its container must be disposed of in a safe way.
- 37/39 Wear suitable gloves and eye/face protection.

### 15.2 National regulations

Water contaminating class

3 - highly water contaminating

## 16. Other information



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#### List of relevant R phrases

- |       |   |
|-------|---|
| 22    | Harmful if swallowed.   |
| 25    | Toxic if swallowed.   |
| 31    | Contact with acids liberates toxic gas.   |
| 50    | Very toxic to aquatic organisms.  |
| 53    | May cause long-term adverse effects in the aquatic environment.                             |
| 36/37 | Irritating to eyes and respiratory system.  |
| 36/38 | Irritating to eyes and skin.  |
| 51/53 | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |

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