

Safety Data Sheet

according to 2001/58/EC

LCK 304 Ammonium, Sample cuvette; 1/2

Print date : 22.02.2006

Product code : LCK304-1

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

1.1 Identification of the substance or preparation

LCK 304 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
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Pacific Way
Salford Manchester M50 1DL - England
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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 %	
200-198-0	54-21-7	Sodium salicylate	<10 %	Xn R22
215-185-5	1310-73-2	caustic soda, sodium hydroxide	<1,5 %	C R35

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

3. Hazards identification

Classification

Symbols : Irritant
R-phrases :
Irritating to eyes and skin.

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.

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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 arising 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 ³	mg/m ³	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

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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.

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
Changes in the physical state	
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 ³
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

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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

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 contaminated packaging

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

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

caustic soda, sodium hydroxide

R phrases

36/38 Irritating to eyes and skin.

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S phrases

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

15.2 National regulations

Water contaminating class 1 - slightly water contaminating

16. Other information

List of relevant R phrases

22 Harmful if swallowed.
35 Causes severe burns.
36/38 Irritating to eyes and skin.

(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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LCK 304 Ammonium, DosiCapZip; 2/2

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

1.1 Identification of the substance or preparation

LCK 304 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
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HACH LANGE Ltd.
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Salford Manchester M50 1DL - England
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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 respiratory system.

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

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Classified as 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 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.
- 36/37 Irritating to eyes and respiratory system.
- 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.

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15.2 National regulations

Water contaminating class 3 - highly water contaminating

16. Other information

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.
51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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