

Safety Data Sheet

according to 2001/58/EC

LCK 308 Cadmium, Analysenküvette; 1/3

Print date : 22.02.2006

Product code : LCK308-1

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

1.1 Identification of the substance or preparation

LCK 308 Cadmium, Analysenküvette; 1/3

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	>70 %	
200-578-6	64-17-5	ethanol, ethyl alcohol	25 %	F R11
215-181-3	1310-58-3	caustic potash, potassium hydroxide	<2 %	Xn, C R22-35

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

3. Hazards identification

Classification

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

4. First aid measures

General information

Take off contaminated clothing and shoes immediately.
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.
If skin irritation persists, call a physician.

After contact with eyes

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

After ingestion

Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Obtain medical attention.

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.

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 order to avoid contact with skin, keep a safety distance and wear suitable protective clothing. In the event of fire, wear self-contained breathing apparatus.

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).
Keep in suitable, closed containers for disposal.

7. Handling and storage

7.1 Handling

Advice on safe handling

Use only in well-ventilated areas. Avoid contact with skin and eyes.

7.2 Storage

Requirements for storage rooms and vessels

Keep container tightly closed in a dry and well-ventilated place.
Keep away from heat and sources of ignition.

Further information on storage conditions

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

8. Exposure controls/personal protection

8.1 Exposure limit values

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Exposure limits (EH40)

CAS No.	Substance	ml/m ³	mg/m ³	F/ml	Category	Origin
64-17-5	Ethanol	1000	1920		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL
1310-58-3	Potassium hydroxide	-	-		TWA (8 h)	WEL
		-	2		STEL (15 min)	WEL

8.2 Exposure controls

Occupational exposure controls

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

Protective and hygiene measures

Wash hands before breaks and at the end of workday.

Respiratory protection

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

Hand protection

Use barrier skin cream.

The selected protective gloves have to satisfy the specifications of EU Directive 89/689/EEC and the standard EN 374 derived from it.

Eye protection

safety glasses with side-shields

Skin protection

Avoid contact with skin, eyes and clothing.

9. Physical and chemical properties

9.1 General information

Physical state	liquid
Colour	violet
Odour	sweet

9.2 Important health, safety and environmental information

pH-Value (at 20 °C) :	>10	Test method
Changes in the physical state		
Flash point	28 °C	
Lower explosion limits	not applicable	
Upper explosion limits	not applicable	
Density (at 20 °C) :	0,96 g/cm ³	
Water solubility :	soluble	
at (20 °C)		

10. Stability and reactivity

Conditions to avoid

Heat, flames and sparks.

Additional information

Stable under recommended storage conditions.

11. Toxicological information

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Corrosive and irritant effects

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

12. Ecological information

Ecotoxicity

No information on ecology is available.

13. Disposal considerations

Advice on disposal

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

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)

ADR/RID class	9
Warning plate	
UN number	3316
ADR/RID packing group	II

Description of the goods

Chemical kit

Inland waterways transport

Remarks (inland waterways transport)

not tested

Marine transport

IMDG code	9
UN number	3316
EmS	F-A,S-A
IMDG packing group	II

Description of the goods

Chemical kit

Air transport

ICAO/IATA-DGR	9
UN/ID number	3316

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ICAO packing group

II

Description of the goods

Chemical kit

Futher Information

This product forms part of a kit. Information in this section relates to the kit as a whole.

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 potash, potassium hydroxide

R phrases

- 10 Flammable.
- 36/38 Irritating to eyes and skin.

S phrases

- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 37/39 Wear suitable gloves and eye/face protection.

15.2 National regulations

Employment restrictions

Observe employment restrictions for young people.; Observe employment restrictions for child bearing mothers and nursing.

Water contaminating class

1 - slightly water contaminating

16. Other information

List of relevant R phrases

- 10 Flammable.
- 11 Highly flammable.
- 22 Harmful if swallowed.
- 35 Causes severe burns.
- 36/38 Irritating to eyes 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.

(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 308 Cadmium, LCK 308 A; 2/3

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Product code : LCK308-2

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

1.1 Identification of the substance or preparation

LCK 308 Cadmium, LCK 308 A; 2/3

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 %	
205-792-3	151-50-8	Potassium cyanide	3 %	T+, N R32-26/27/28-50-53
215-181-3	1310-58-3	caustic potash, potassium hydroxide	<2 %	Xn, C R22-35

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

3. Hazards identification

Classification

Symbols : Toxic, Corrosive, Harmful, Irritant, Dangerous for the environment

R-phrases :

Contact with acids liberates very toxic gas.

Toxic by inhalation, in contact with skin and if swallowed.

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 contaminated clothing and shoes immediately.

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.

If skin irritation persists, call a physician.

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After contact with eyes

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

After ingestion

Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Obtain medical attention.

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.

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 order to avoid contact with skin, keep a safety distance and wear suitable protective clothing. In the event of fire, wear self-contained breathing apparatus.

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). Keep in suitable, closed containers for disposal.

7. Handling and storage

7.1 Handling

Advice on safe handling

Use only in well-ventilated areas. Avoid contact with skin and eyes.

7.2 Storage

Requirements for storage rooms and vessels

Keep container tightly closed in a dry 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

8.1 Exposure limit values

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Exposure limits (EH40)

CAS No.	Substance	ml/m ³	mg/m ³	F/ml	Category	Origin
1310-58-3	Potassium hydroxide	-	-	-	TWA (8 h)	WEL
		-	2	-	STEL (15 min)	WEL

8.2 Exposure controls

Occupational exposure controls

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

Protective and hygiene measures

Wash hands before breaks and at the end of workday.

Respiratory protection

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

Hand protection

Use barrier skin cream.

The selected protective gloves have to satisfy the specifications of EU Directive 89/689/EEC and the standard EN 374 derived from it.

Eye protection

safety glasses with side-shields

Skin protection

Avoid contact with skin, eyes and clothing.

9. Physical and chemical properties

9.1 General information

Physical state	liquid
Colour	colourless
Odour	odourless

9.2 Important health, safety and environmental information

pH-Value (at 20 °C) :	13	Test method
Changes in the physical state		
Flash point	not applicable	
Explosive properties		
not applicable		
Density (at 20 °C) :	1,04 g/cm ³	
Water solubility : at (20 °C)	soluble	

10. Stability and reactivity

Materials to avoid

acids

Hazardous decomposition products

hydrogen cyanide (hydrocyanic acid)

Additional information

Stable under recommended storage conditions.

11. Toxicological information

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Acute toxicity

Contact with acids liberates toxic gas.

Corrosive and irritant effects

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

12. Ecological information

Ecotoxicity

No information on ecology is available.

13. Disposal considerations

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.

Contaminated packaging

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

14. Transport information

Land transport (ADR/RID)

ADR/RID class	9
Warning plate	
UN number	3316
ADR/RID packing group	II

Description of the goods

Chemical kit

Inland waterways transport

Remarks (inland waterways transport)

not tested

Marine transport

IMDG code	9
UN number	3316
Marine pollutant	--
EmS	F-A,S-A
IMDG packing group	II

Description of the goods

Chemical kit

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Air transport

ICAO/IATA-DGR	9
UN/ID number	3316
ICAO packing group	II

Description of the goods

Chemical kit

Futher Information

This product forms part of a kit. Information in this section relates to the kit as a whole.

15. Regulatory information

15.1 Labelling

Indication of danger

T - Toxic; N - Dangerous for the environment



T - Toxic



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

caustic potash, potassium hydroxide
Potassium cyanide

R phrases

- | | |
|----------|---|
| 32 | Contact with acids liberates very toxic gas. |
| 23/24/25 | Toxic by inhalation, in contact with skin and if swallowed. |
| 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. |
| 45 | In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). |
| 37/39 | Wear suitable gloves and eye/face protection. |

15.2 National regulations

Employment restrictions

Observe employment restrictions for young people.; Observe employment restrictions for child bearing mothers and nursing.

Water contaminating class

3 - highly water contaminating

16. Other information

List of relevant R phrases

- | | |
|----------|--|
| 22 | Harmful if swallowed. |
| 32 | Contact with acids liberates very toxic gas. |
| 35 | Causes severe burns. |
| 50 | Very toxic to aquatic organisms. |
| 53 | May cause long-term adverse effects in the aquatic environment. |
| 23/24/25 | Toxic by inhalation, in contact with skin and if swallowed. |
| 26/27/28 | Very toxic by inhalation, in contact with skin and if swallowed. |
| 36/38 | Irritating to eyes and skin. |

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

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.

(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 308 Cadmium, LCK 308 B; 3/3

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

1.1 Identification of the substance or preparation

LCK 308 Cadmium, LCK 308 B; 3/3

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	>70 %	
200-001-8	50-00-0	formaldehyde ...%	<13 %	Carc. Cat. 3, T, C R40-23/24/25-34-43
200-659-6	67-56-1	methanol	<4 %	F, T R11-23/24/25-39/23/24/25
231-793-3	7446-20-0	Zinc sulfate heptahydrate	0,2 %	Xn, N R22-41-50/53

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

3. Hazards identification

Classification

Symbols : Harmful, Irritant

R-phrases :

Limited evidence of a carcinogenic effect.

May cause sensitization by skin contact.

Harmful by inhalation, in contact with skin and if swallowed.

Irritating to eyes, respiratory system and skin.

4. First aid measures

General information

Take off contaminated clothing and shoes immediately.

Show this safety data sheet to the doctor in attendance.

After inhalation

Move to fresh air.

If symptoms persist, call a physician.

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After contact with skin

Wash off immediately with plenty of water for at least 15 minutes.
If skin irritation persists, call a physician.

After contact with eyes

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

After ingestion

Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Obtain medical attention.

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.

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 order to avoid contact with skin, keep a safety distance and wear suitable protective clothing.
In the event of fire, wear self-contained breathing apparatus.

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).
Keep in suitable, closed containers for disposal.

7. Handling and storage

7.1 Handling

Advice on safe handling

Use only in well-ventilated areas. Avoid contact with skin and eyes.

7.2 Storage

Requirements for storage rooms and vessels

Keep container tightly closed in a dry and well-ventilated place.
Keep away from heat and sources of ignition.

Advice on storage compatibility

Do not store near combustible materials.

Further information on storage conditions

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

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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
50-00-0	Formaldehyde	2	2.5		TWA (8 h)	WEL
		2	2.5		STEL (15 min)	WEL
67-56-1	Methanol	200	266		TWA (8 h)	WEL
		250	333		STEL (15 min)	WEL

BAT values (TRGS 903)

CAS No.	Substance	Value	Parameter	Test material	Sampling time
67-56-1	Methanol	30 mg/l	Methanol	U	c,b

8.2 Exposure controls

Occupational exposure controls

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

Protective and hygiene measures

Wash hands before breaks and at the end of workday.

Respiratory protection

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

Hand protection

Use barrier skin cream.

The selected protective gloves have to satisfy the specifications of EU Directive 89/689/EEC and the standard EN 374 derived from it.

Eye protection

safety glasses with side-shields

Skin protection

Avoid contact with skin, eyes and clothing.

9. Physical and chemical properties

9.1 General information

Physical state	liquid
Colour	colourless
Odour	not significant

9.2 Important health, safety and environmental information

Test method

Changes in the physical state

Flash point	78 °C
Density (at 20 °C) :	1,09 g/cm ³
Water solubility : at (20 °C)	soluble

10. Stability and reactivity

Conditions to avoid

Heat, flames and sparks.

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Additional information

Stable under recommended storage conditions.

11. Toxicological information

Corrosive and irritant effects

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

Sensitising effects

May cause sensitisation by skin contact.

12. Ecological information

Ecotoxicity

No information on ecology is available.

13. Disposal considerations

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.

Contaminated packaging

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

14. Transport information

Land transport (ADR/RID)

ADR/RID class	9
Warning plate	
UN number	3316
ADR/RID packing group	II

Inland waterways transport

Remarks (inland waterways transport)

not tested

Marine transport

IMDG code	9
UN number	3316
Marine pollutant	--
EmS	F-A,S-A
IMDG packing group	II

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Description of the goods

Chemical kit

Air transport

ICAO/IATA-DGR	9
UN/ID number	3316
ICAO packing group	II

Description of the goods

Chemical kit

Further Information

This product forms part of a kit. Information in this section relates to the kit as a whole.

15. Regulatory information

15.1 Labelling

Indication of danger Xn - Harmful



Xn - Harmful

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

formaldehyde ...%
methanol

R phrases

40	Limited evidence of a carcinogenic effect.
43	May cause sensitization by skin contact.
20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
36/37/38	Irritating to eyes, respiratory system and skin.

S phrases

26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
37/39	Wear suitable gloves and eye/face protection.

15.2 National regulations

Employment restrictions	Observe employment restrictions for young people.; Observe employment restrictions for child bearing mothers and nursing.
Water contaminating class	2 - water contaminating

16. Other information

List of relevant R phrases

11	Highly flammable.
22	Harmful if swallowed.
34	Causes burns.
40	Limited evidence of a carcinogenic effect.
41	Risk of serious damage to eyes.
43	May cause sensitization by skin contact.
20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
36/37/38	Irritating to eyes, respiratory system and skin.
39/23/24/25	Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if

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swallowed.

50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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.

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