

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Emballagen-Innenlack EP 5577, Gold (5577-.0120)
Revision date : 12.12.2012
Date of print : 12.12.2012

Version (Revision) : 3.0.0 (2.0.0)

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

1.1 Product identifier

Emballagen-Innenlack EP 5577, Gold (5577-.0120)

1.2 Relevant identified uses of the substance or mixture and uses advised against

Solvent-based coating. Intended purpose see technical data sheet.

Relevant identified uses

Product categories

PC9 - Coatings and paints, fillers, putties, thinners

Remark

The product is intended for professional use.

1.3 Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor)

Brillux GmbH & Co. KG, Industrielack
www.brillux-industrielack.de

Street : Otto-Hahn-Straße 14

Postal code/city : D-59423 Unna

Telephone : +49 (0)2303 8805-0

Telefax : +49 (0)2303 8805-119

1.4 Emergency Telephone Number

Giftnotruf Berlin (poisons centre), consultation in german and english
Telephone: +49 (0)30 30686 790.

2. Hazards identification

This product is dangerous concerning EC-guideline 1999/45/EC.

2.1 Classification of the substance or mixture

Classification according to Directive 67/548/EEC or 1999/45/EC

Flammable. · Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. · Irritating to eyes.

R 10 · R 52/53 · Xi ; R 36

2.2 Label elements

Labelling (67/548/EEC or 1999/45/EC)

Hazard symbols and hazard statements of dangerous substances and preparations



Xi ; Irritant

R-phrases

10 Flammable.
52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
36 Irritating to eyes.

S-phrases

61 Avoid release to the environment. Refer to special instructions / safety data sheet.
35 This material and its container must be disposed of in a safe way.
51 Use only in well-ventilated areas.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
23.1 Do not breathe aerosol.
25 Avoid contact with eyes.

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2.3 Other hazards

None

3. Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

2-METHOXY-1-METHYLETHYL ACETATE ; REACH registration No. : 01-2119475791-29 ; EC No : 203-603-9; CAS No. : 108-65-6

Weight fraction : 55 - 60 %

Classification 67/548/EEC : R10

Substance with a common (EC) occupational exposure limit value.

Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226

Substance with a common (EC) occupational exposure limit value.

SOLVENT NAPHTHA (PETROLEUM), HEAVY AROM. ; REACH registration No. : 01-2119463583-34 ; EC No : 265-198-5; CAS No. : 64742-94-5

Weight fraction : 5 - 10 %

Classification 67/548/EEC : N ; R51/53 Xn ; R65 R67 R66

Classification 1272/2008 [CLP] : Asp.Tox. 1 ; H304 STOT SE 3 ; H336 Aquatic Chronic 2 ; H411

2-METHYLPROPAN-1-OL ; REACH registration No. : 01-2119484609-23 ; EC No : 201-148-0; CAS No. : 78-83-1

Weight fraction : 5 - 10 %

Classification 67/548/EEC : R10 Xi ; R41 Xi ; R37/38 R67

Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Eye Dam. 1 ; H318 Skin Irrit. 2 ; H315 STOT SE 3 ; H335 STOT SE 3 ; H336

BUTAN-1-OL ; EC No : 200-751-6; CAS No. : 71-36-3

Weight fraction : 1 - 5 %

Classification 67/548/EEC : R10 Xi ; R41 Xn ; R22 Xi ; R37/38 R67

Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Skin Irrit. 2 ; H315 STOT SE 3 ; H335 STOT SE 3 ; H336

PHENOL ; EC No : 203-632-7; CAS No. : 108-95-2

Weight fraction : < 0,5 %

Classification 67/548/EEC : T ; R23/24/25 C ; R34 Muta. Cat.3 ; R68 Xn ; R48/20/21/22

Classification 1272/2008 [CLP] : Acute Tox. 3 ; H301 Acute Tox. 3 ; H311 Acute Tox. 3 ; H331 Muta. 2 ; H341 STOT RE 2 ; H373 Skin Corr. 1B ; H314

NAPHTHA (PETROLEUM), HYDRODESULFURIZED HEAVY ; REACH registration No. : 01-2119458049-33 ; EC No : 265-185-4; CAS No. : 64742-82-1

Weight fraction : < 0,5 %

Classification 67/548/EEC : R10 N ; R51/53 Xn ; R65 R67 R66

Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Asp.Tox. 1 ; H304 STOT SE 3 ; H336 Aquatic Chronic 2 ; H411

1,2,4-TRIMETHYLBENZENE ; EC No : 202-436-9; CAS No. : 95-63-6

Weight fraction : < 0,5 %

Classification 67/548/EEC : R10 N ; R51/53 Xn ; R20 Xi ; R36/37/38

Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Acute Tox. 4 ; H332 Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319 STOT SE 3 ; H335 Aquatic Chronic 2 ; H411

Additional information

Full text of R-, H- and EUH-phrases: see section 16.

4. First aid measures

4.1 Description of first aid measures

General information

Change contaminated, saturated clothing. When in doubt or if symptoms are observed, get medical advice. If unconscious place in recovery position and seek medical advice.

After inhalation

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Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. In case of respiratory tract irritation, consult a physician.

In case of skin contact

Wash immediately with: Water and soap. Do not wash with: Solvents/Thinner

After eye contact

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately. Protect uninjured eye.

After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Keep at rest. Do not induce vomiting. No direct artificial respiration to be given by first aider.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

None

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Alcohol resistant foam. Extinguishing powder. Carbon dioxide (CO₂). Water spray.

Unsuitable extinguishing media

High power water jet.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

In case of fire may be liberated: Nitrogen oxides (NO_x). Carbon monoxide. Carbon dioxide (CO₂). Pyrolysis products, toxic.

5.3 Advice for firefighters

Special protective equipment for firefighters

Use suitable breathing apparatus.

5.4 Additional information

Burning produces heavy smoke. Use water spray jet to protect personnel and to cool endangered containers. Do not allow run-off from fire-fighting to enter drains or water courses.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Provide adequate ventilation. See protective measures under point 7 and 8.

6.2 Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

6.3 Methods and material for containment and cleaning up

For cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Clean with detergents. Avoid solvent cleaners.

6.4 Reference to other sections

None

7. Handling and storage

7.1 Precautions for safe handling

Protective measures

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Avoid: Inhalation of vapours or spray/mists. Only use the material in places where open light, fire and other flammable sources can be kept away. If handled uncovered, arrangements with local exhaust ventilation should be used if possible. If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means. Never use pressure to empty container. Only allow access to authorised staff.

Fire prevent measures

Keep away from sources of ignition - No smoking. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours are heavier than air, spread along floors and form explosive mixtures with air. Take precautionary measures against static discharges. Wear anti-static footwear and clothing Use only antistatically equipped (spark-free) tools.

Advices on general occupational hygiene

Wear personal protection equipment. (see chapter 8). When using do not eat, drink, smoke, sniff. Always close containers tightly after the removal of product.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Use explosion-proof machinery, apparatus, ventilation facilities, tools etc. Floors should be impervious, resistant to liquids and easy to clean. Provide adequate ventilation as well as local exhaustion at critical locations. Keep container tightly closed.

Hints on storage assembly

Storage class : 3

Do not store together with:

Strong acid. Strong alkali. Oxidising agent. Food and feedingstuffs.

Further information on storage conditions

Keep only in the original container in a cool, well-ventilated place.

Protect against : Heat. Humidity.

7.3 Specific end use(s)

Solvent-based coating. Intended purpose see technical data sheet.

8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6

Limit value type (country of origin) : TRGS 900 (D)

Limit value : 50 ppm / 270 mg/m³

Peak limitation : 1(I)

Remark : Y

Version : 02.07.2009

Limit value type (country of origin) : STEL (EC)

Limit value : 100 ppm / 550 mg/m³

Remark : H

Version : 08.06.2000

Limit value type (country of origin) : TWA (EC)

Limit value : 50 ppm / 275 mg/m³

Remark : H

Version : 08.06.2000

SOLVENT NAPHTHA (PETROLEUM), HEAVY AROM. ; CAS No. : 64742-94-5

Limit value type (country of origin) : TRGS 900 (EC)

Limit value : 100 mg/m³ / 20 ppm

Peak limitation : 2(II)

Remark : AGS

Version :

2-METHYLPROPAN-1-OL ; CAS No. : 78-83-1

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Limit value type (country of origin) : TRGS 900 (D)
Limit value : 100 ppm / 310 mg/m³
Peak limitation : 1(I)
Remark : Y
Version : 02.07.2009

BUTAN-1-OL ; CAS No. : 71-36-3
Limit value type (country of origin) : TRGS 900 (D)
Limit value : 100 ppm / 310 mg/m³
Peak limitation : 1(I)
Remark : Y
Version : 02.07.2009

PHENOL ; CAS No. : 108-95-2
Limit value type (country of origin) : TRGS 900 (D)
Limit value : 2 ppm / 7,8 mg/m³
Remark : H
Version : 02.07.2009

Limit value type (country of origin) : TWA (EC)
Limit value : 2 ppm / 7,8 mg/m³
Remark : H
Version : 08.06.2000

NAPHTHA (PETROLEUM), HYDRODESULFURIZED HEAVY ; CAS No. : 64742-82-1
Limit value type (country of origin) : TRGS 900 (D)
Limit value : 300 mg/m³
Remark : H
Version :

1,2,4-TRIMETHYLBENZENE ; CAS No. : 95-63-6
Limit value type (country of origin) : TRGS 900 (D)
Limit value : 20 ppm / 100 mg/m³
Peak limitation : 2(II)
Remark : Y
Version : 02.07.2009

Limit value type (country of origin) : TWA (EC)
Limit value : 20 ppm / 100 mg/m³
Version : 08.06.2000

Biological limit values

BUTAN-1-OL ; CAS No. : 71-36-3
Limit value type (country of origin) : TRGS 903 (D)
Parameter : 1-Butanol / Urine (U) / before next shift
Limit value : 2 mg/g Kr
Version : 31.03.2004

Limit value type (country of origin) : TRGS 903 (D)
Parameter : 1-Butanol / Urine (U) / End of exposure or end of shift
Limit value : 10 mg/g Kr
Version : 31.03.2004

PHENOL ; CAS No. : 108-95-2
Limit value type (country of origin) : TRGS 903 (D)
Parameter : Phenol / Urine (U) / End of exposure or end of shift
Limit value : 300 mg/l
Version : 31.03.2004

8.2 Exposure controls

Personal protective equipment

Eye / face protection

Suitable eye protection

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goggles

Recommended eye protection articles

DIN EN 166

Remark

Note BGR 192.

Skin protection

Hand protection

Use safety gloves according to EN 374. Suitable glove materials: fluoro-rubber, butyl-rubber or nitrile-rubber. Please pay attention to the glove penetration times of the substances named below in chapter 2, according to the glove manufactures.

Remark : After washing hands replace lost skin fat by fat containing skin creams. Note BGR 195. Note TRGS 401.

Body protection

Required properties : antistatic. non-melting.

Recommended material : Natural fibres (e.g. cotton). Heat-resistant synthetic fibres.

Remark : Note BGR 189. Note TRGS 401.

Respiratory protection

Respiratory protection necessary at: insufficient exhaust Spray application

Suitable respiratory protection apparatus

Combination filter mask A2-P2 for short-term work.

Remark

Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190). Note TRGS 402.

Occupational exposure controls

Technical measures to prevent exposure

Technical measures and the application of suitable work processes have priority over personal protection equipment.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state : liquid

Colour : According to product identification.

Odour

Like solvent.

Safety relevant basis data

Melting point/melting range:			not applicable	
Boiling temperature/boiling range:	(1013 hPa)	ca.	120 - 200	°C
Decomposition temperature:			No data available	
Flash point:		>	23	°C
Ignition temperature:			No data available	
Lower explosion limit:		ca.	0,6	Vol-%
Upper explosion limit:		ca.	11	Vol-%
Vapour pressure:	(50 °C)	<	100	hPa
Density:	(20 °C)		1 - 1,1	g/cm ³
Solvent separation test:	(20 °C)	<	3	%
Water solubility:	(20 °C)		Not or little soluble	
pH value:			No data available	
Flow time:	(20 °C)		20 - 25	s
Viscosity :	(23 °C)		No data available	
Kinematic viscosity:	(23 °C)	>	20,5	mm ² /s
Solid content:			20 - 30	Wt %

9.2 Other information

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The physical specifications are approximate values and refer to the used safety relevant component(s).

10. Stability and reactivity

10.1 Reactivity

No information available.

10.2 Chemical stability

Stable under recommended storage and handling conditions (see section 7).

10.3 Possibility of hazardous reactions

No information available.

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

Exothermic reaction with: Alkali (lye), concentrated. Acid, concentrated. Oxidising agent.

10.6 Hazardous decomposition products

No information available.

11. Toxicological information

11.1 Information on toxicological effects

Acute effects

Acute oral toxicity

Parameter :	LD50 (BUTAN-1-OL ; CAS No. : 71-36-3)
Exposure route :	Oral
Species :	Rat
Effective dose :	790 mg/kg
Parameter :	LD50 (PHENOL ; CAS No. : 108-95-2)
Exposure route :	Oral
Species :	Rat
Effective dose :	317 mg/kg
Parameter :	LD50 (SOLVENT NAPHTHA (PETROLEUM), HEAVY AROM. ; CAS No. : 64742-94-5)
Exposure route :	Oral
Species :	Rat
Effective dose :	> 5000 mg/kg
Parameter :	LD50 (NAPHTHA (PETROLEUM), HYDRODESULFURIZED HEAVY ; CAS No. : 64742-82-1)
Exposure route :	Oral
Species :	Rat
Effective dose :	> 2000 mg/kg

Acute dermal toxicity

Parameter :	LD50 (NAPHTHA (PETROLEUM), HYDRODESULFURIZED HEAVY ; CAS No. : 64742-82-1)
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	> 2000 mg/kg
Parameter :	LD50 (SOLVENT NAPHTHA (PETROLEUM), HEAVY AROM. ; CAS No. : 64742-94-5)
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	> 2000 mg/kg
Parameter :	LD50 (BUTAN-1-OL ; CAS No. : 71-36-3)
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	3400 mg/kg
Parameter :	LD50 (PHENOL ; CAS No. : 108-95-2)

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Exposure route : Dermal
Species : Rat
Effective dose : 670 mg/kg

Acute inhalation toxicity

Parameter : LC50 (BUTAN-1-OL ; CAS No. : 71-36-3)

Exposure route : Inhalation

Species : Rat

Effective dose : 8000 ppm

Parameter : LC50 (PHENOL ; CAS No. : 108-95-2)

Exposure route : Inhalation

Species : Rat

Effective dose : 316 mg/m³

Parameter : LC50 (NAPHTHA (PETROLEUM), HYDRODESULFURIZED HEAVY ; CAS No. : 64742-82-1)

Exposure route : Inhalation

Species : Rat

Effective dose : > 5 mg/l

Exposure time : 4 h

Parameter : LC50 (SOLVENT NAPHTHA (PETROLEUM), HEAVY AROM. ; CAS No. : 64742-94-5)

Exposure route : Inhalation

Species : Rat

Effective dose : > 4688 mg/m³

Assessment/classification

Vapours may cause drowsiness and dizziness. May cause respiratory irritation.

Irritant and corrosive effects

Assessment/classification

Repeated exposure may cause skin dryness or cracking.

11.4 Additional information

The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

12. Ecological information

12.1 Toxicity

No information available.

12.2 Persistence and degradability

Biodegradation

The solvent is biodegradable. In accordance with the required stability the product is poorly biodegradable.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Other adverse effects

No information available.

12.7 Further ecological information

Additional information

Do not allow uncontrolled discharge of product into the environment.

13. Disposal considerations

13.1 Waste treatment methods

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The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. Dispose according to legislation.

Product/Packaging disposal

Waste codes / waste designations according to EWC / AVV

Waste code product

EWC-Code: 08 01 11.

Waste code packaging

Uncleaned packaging: EWC-Code: 15 01 10. Cleaned packaging: EWC-Code: 15 01 04.

Waste treatment options

Appropriate disposal / Package

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

13.2 Additional information

Note sections 7 and 8.

14. Transport information

14.1 UN number

1263

14.2 UN proper shipping name

Land transport (ADR/RID)

PAINT

Sea transport (IMDG)

PAINT

Air transport (ICAO-TI / IATA-DGR)

PAINT

14.3 Transport hazard class(es)

Land transport (ADR/RID)

Class(es) : 3
Classification code : F1
Hazard identification number (Kemler No.) : 30
Tunnel restriction code : D/E
Special provisions : 640E · LQ 7 · E 1
Hazard label(s) : 3

Sea transport (IMDG)

Class(es) : 3
EmS-No : F-E / S-E
Special provisions : LQ 5 I · E 1
Hazard label(s) : 3

Air transport (ICAO-TI / IATA-DGR)

Class(es) : 3
Special provisions : E 1
Hazard label(s) : 3

14.4 Packing group

III

14.5 Environmental hazards

Land transport (ADR/RID) : No

Sea transport (IMDG) : No

Air transport (ICAO-TI / IATA-DGR) : No

14.6 Special precautions for user

None

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15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU legislation

Note TRGS 001. Note TRGS 400.

Other regulations (EU)

Restrictions of occupation

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).
Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

National regulations

Technische Anleitung Luft (TA-Luft)

Weight fraction (Number 5.2.5. I) : < 0,5 %

Water hazard class (WGK)

Class : 2 (Hazardous to water) Classification according to VwVwS

15.2 Chemical safety assessment

No information available.

16. Other information

16.1 Indication of changes

03. Hazardous ingredients · 08. Occupational exposure limit values · 15. Technische Anleitung Luft (TA-Luft)

16.2 Abbreviations and acronyms

TRGS: German Technical Rule for Hazardous Substances. BGR(I): Rule (Information) from the german employers liability insurance association. VwVwS: Administrative Regulation on the Classification of Substances Hazardous to Waters. VCI: German chemical industry association. EWC: European Waste Catalogue.

16.3 Key literature references and sources for data

None

16.4 Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008 [CLP]

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flam. Liq. 3 ; H226 - Flammable liquids : Category 3 ; Flammable liquid and vapour.

Eye Irrit. 2 ; H319 - Serious eye damage/eye irritation : Category 2A ; Causes serious eye irritation.

Aquatic Chronic 3 ; H412 - Hazardous to the aquatic environment : Category 3 ; Harmful to aquatic life with long lasting effects.

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms



Flame (GHS02) · Exclamation mark (GHS07)

Signal word

Warning

Hazard Statements

H226 Flammable liquid and vapour.

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

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P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P233	Keep container tightly closed.
P337/313	If eye irritation persists: Get medical advice/attention.
P305/351/338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P403/235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container to ...

16.5 Relevant R-, H- and EUH-phrases (Number and full text)

H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H341	Suspected of causing genetic defects.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
10	Flammable.
20	Harmful by inhalation.
22	Harmful if swallowed.
23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
34	Causes burns.
36	Irritating to eyes.
36/37/38	Irritating to eyes, respiratory system and skin.
37/38	Irritating to respiratory system and skin.
41	Risk of serious damage to eyes.
48/20/21/22	Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.
51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
65	Harmful: may cause lung damage if swallowed.
66	Repeated exposure may cause skin dryness or cracking.
67	Vapours may cause drowsiness and dizziness.
68	Possible risk of irreversible effects.

16.6 Training advice

None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.
