

according to Regulation (EC) No 1907/2006

## VELIND Scheibenfrostschutzkonzentrat -60°C

Revision date: 16.08.2018

Product code: 32061

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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

## 1.1. Product identifier

VELIND Scheibenfrostschutzkonzentrat -60°C

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

## Use of the substance/mixture

Anti-freeze and de-icing products

## Uses advised against

No information available. Use(Usage) exclusively according to labelled intended purpose!

#### 1.3. Details of the supplier of the safety data sheet

Company name:	VELIND Aerosol GmbH	
Street:	Passower Chaussee 111	
Place:	D-16303 Schwedt/O	
Telephone: e-mail:	+49 33 32 / 4 50 88 - 0 info@velind.de	Telefax: +49 33 32 / 4 50 88 - 30
Contact person: e-mail: Internet: Responsible Department:	Witt qs@velind.de www.velind.de QS	Telephone:18
1.4. Emergency telephone number:	GGIZ der Länder Mecklenburg-Vo Thüringen: +49 3 61 / 7 30 73 -0	rpommern, Sachsen, Sachsen-Anhalt und

#### Further Information

Emergency - Phonecalls to +49 (0) 33 32 / 4 50 88 16 (during office-hours from 8.00 a.m. to 4.00 p.m.)

## **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

#### Regulation (EC) No. 1272/2008

Hazard categories: Flammable liquid: Flam. Liq. 3 Serious eye damage/eye irritation: Eye Irrit. 2 Hazard Statements: Flammable liquid and vapour. Causes serious eye irritation.

## 2.2. Label elements

## Regulation (EC) No. 1272/2008

Signal word: Warning

Pictograms:



# Hazard statements

ŀ	1226	
ŀ	1319	

Flammable liquid and vapour. Causes serious eye irritation.

#### **Precautionary statements**

oouullonaly oluconion	
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

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P403+P235 P501	smoking. Store in a well-ventilated place. Keep cool. Dispose of contents/container to gemäß lokalen/nationalen Vorschriften der Abfallentsorgung.	

#### Special labelling of certain mixtures

Repeated exposure may cause skin dryness or cracking.

#### 2.3. Other hazards

EUH066

In use, may form flammable/explosive vapour-air mixture. Inhalation causes narcotic effects/intoxication.

#### **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

#### Hazardous components

CAS No	Chemical name	Chemical name				
	EC No	Index No	ndex No REACH No			
	GHS Classification	•	•			
64-17-5	ethanol, ethyl alcohol					
	200-578-6	603-002-00-5	03-002-00-5 01-2119457610-43			
	Flam. Liq. 2, Eye Irrit. 2; H225 H	319 EUH066				
107-21-1	ethanediol, ethylene glycol					
	203-473-3	603-027-00-1	603-027-00-1 01-2119456816-28			
	Acute Tox. 4, STOT RE 2; H302 H373					

Full text of H and EUH statements: see section 16.

#### Labelling for contents according to Regulation (EC) No 648/2004

perfumes (Limonene).

#### **Further Information**

In use, may form flammable/explosive vapour-air mixture. Inhalation causes narcotic effects/intoxication. < 5 % anionische Tenside, Duftstoffe (Limonene)

### **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

#### **General information**

Remove contaminated, saturated clothing immediately. First aider: Pay attention to self-protection! Move victim out of danger zone.

#### After inhalation

Provide fresh air. Move victim out of danger zone. In all cases of doubt, or when symptoms persist, seek medical advice.

#### After contact with skin

Wash with plenty of water. Change contaminated clothing. After contact with skin, wash immediately with plenty of water and soap.

## After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

#### After ingestion

Rinse mouth immediately and drink plenty of water. Induce vomiting when the affected person is not unconscious. Medical treatment necessary. Rinse mouth thoroughly with water.

#### 4.2. Most important symptoms and effects, both acute and delayed

The following symptoms may occur::



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Intoxication. unconsciousness. Headache. drowsiness. vomiting. Dizziness. Depression of the central nervous system.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically. This information is not available.

## **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

#### Suitable extinguishing media

Water spray jet, Carbon dioxide (CO2), Foam, Extinguishing powder. alcohol resistant foam. Water spray. dry extinguishing powder. Water fog.

#### Unsuitable extinguishing media

High power water jet.

## 5.2. Special hazards arising from the substance or mixture

Flammable. Vapours can form explosive mixtures with air. In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop. Vapours are heavier than air and will spread at floor level. Beware of reignition. Special exposure hazards arising from the substance itself, combustion products, resulting gases: Carbon monoxide Carbon dioxide.

### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Special protective equipment for firefighters

#### Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Move undamaged containers from immediate hazard area if it can be done safely. Remove according to the regulations.

## **SECTION 6: Accidental release measures**

## 6.1. Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Wear personal protection equipment. Keep away from sources of ignition - No smoking.

#### 6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Danger of explosion Provide fresh air. Retain contaminated washing water and dispose it. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

### 6.3. Methods and material for containment and 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. Ventilate affected area. Collect in closed containers for disposal.

# 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13 See protective measures under point 7 and 8.

#### **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

## Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. Use only outdoors or in a well-ventilated area. Keep away from sources of ignition - No smoking. If local exhaust ventilation is not possible or not



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sufficient, the entire working area should be ventilated by technical means. When using do not eat, drink, smoke, sniff. Keep out of the reach of children. Keep away from hot surfaces. Prolonged/repetitive skin contact may cause skin defattening or dermatitis. Read label before use. Observe in addition any national regulations!

## Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapours can form explosive mixtures with air. Protect from sunlight. Store in a well-ventilated place. Keep only in the original container in a cool, well-ventilated place.

## 7.2. Conditions for safe storage, including any incompatibilities

## Requirements for storage rooms and vessels

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Maximum storage temperature: 30°C Further information concerning storage conditions: The floor should be leak tight, jointless and not absorbent. Ensure adequate ventilation of the storage area.

#### Hints on joint storage

Do not store together with: Oxidising agent. Pyrophoric or self-heating substances. Keep away from: Oxidizing agents. strong alkalis. Strong acid.

## Further information on storage conditions

Fire class: B

## 7.3. Specific end use(s)

Anti-freeze and de-icing products

## **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
107-21-1	Ethane-1,2-diol, vapour	20	52		TWA (8 h)	WEL
		40	104		STEL (15 min)	WEL
64-17-5	Ethanol	1000	1920		TWA (8 h)	WEL

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## **DNEL/DMEL** values

CAS No	Substance							
DNEL type		Exposure route	Effect	Value				
64-17-5	ethanol, ethyl alcohol							
Worker DNE	EL, acute	inhalation	local	1900 mg/m <sup>3</sup>				
Worker DNE	EL, long-term	inhalation	systemic	950 mg/m³				
Worker DNE	EL, long-term	dermal	systemic	343 mg/kg bw/day				
Consumer D	DNEL, acute	inhalation	local	950 mg/m³				
Consumer D	NEL, long-term	inhalation	systemic	114 mg/m <sup>3</sup>				
Consumer D	NEL, long-term	oral	systemic	87 mg/kg bw/day				
Consumer D	NEL, long-term	dermal	systemic	206 mg/kg bw/day				
107-21-1	ethanediol, ethylene glycol							
Worker DNE	EL, long-term	inhalation	local	35 mg/m³				
Worker DNE	EL, long-term	dermal	systemic	106 mg/kg bw/day				
Consumer DNEL, long-term		inhalation	local	7 mg/m³				
Consumer DNEL, long-term		dermal	systemic	53 mg/kg bw/day				

## **PNEC** values

CAS No	Substance					
Environment	tal compartment	Value				
64-17-5	ethanol, ethyl alcohol					
Freshwater		0,96 mg/l				
Marine wate	r	0,79 mg/l				
Freshwater s	sediment	3,6 mg/l				
Marine sediment		2,9 mg/l				
Micro-organi	580 mg/l					
Soil		0,63 mg/kg				
107-21-1	ethanediol, ethylene glycol					
Freshwater		10 mg/l				
Marine wate	r	1 mg/l				
Freshwater sediment		20,9 mg/kg				
Micro-organi	Micro-organisms in sewage treatment plants (STP)					
Soil		1,53 mg/kg				

## Additional advice on limit values

Take precautionary measures against static discharges.

## 8.2. Exposure controls





## Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. Provide adequate ventilation as well as local exhaustion at critical locations. Exposure controls / Personal protection equipment



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## Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink. When using do not eat, drink, smoke, sniff. Personal protection equipment. Contaminated work clothing should not be allowed out of the workplace. Technical ventilation of workplace.

#### Eye/face protection

Wear eye protection/face protection.

#### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Tested protective gloves are to be worn: The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves mentioned above together with the supplier of these gloves.

Suitable material: NBR (Nitrile rubber). Butyl rubber.

Thickness of glove material:

Breakthrough times and swelling properties of the material must be taken into consideration.

Protect skin by using skin protective cream. Set out skin protection guidelines.

Apply skin care products after work.

## Skin protection

Wear suitable protective clothing.

#### **Respiratory protection**

In case of inadequate ventilation wear respiratory protection. With correct and proper use, and under normal conditions, breathing protection is not required. Respiratory protection necessary at: exceeding exposure limit values. Filtering device (full mask or mouthpiece) with filter:

#### **Environmental exposure controls**

No information available.

## **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state: Colour:	liquid blue clear	
Odour:	characteristic	
pH-Value:		not determined
Changes in the physical state		
Melting point:		not determined
Initial boiling point and boiling range:		>78 °C
Flash point:		23 °C
<b>Flammability</b> Solid: Gas:		not applicable not applicable
Explosive properties not explosive. In use, may form fl	ammable/explosive vapour-	air mixture.
Lower explosion limits:		not determined
Upper explosion limits:		not determined
Ignition temperature:		not determined
Auto-ignition temperature		

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Solid: Gas:	not applicable not applicable						
Decomposition temperature:	not determined						
Oxidizing properties Not oxidising.							
Vapour pressure:	not determined						
Density: Bulk density:	0,91 g/cm³ not applicable						
Water solubility:	easily soluble						
Solubility in other solvents not determined							
Partition coefficient:	not determined						
Viscosity / dynamic:	not determined						
Vapour density:	not determined						
Evaporation rate:	not determined						
9.2. Other information							
Solid content:	not determined						

# **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

Flammable. The product has not been tested.

#### 10.2. Chemical stability

Stable with proper storage and handling.

# 10.3. Possibility of hazardous reactions

No decomposition if used as intended

## 10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air. Refer to chapter 7. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Take precautionary measures against static discharges.

## 10.5. Incompatible materials

Refer to chapter 7. Materials to avoid: Oxidizing agents.

## 10.6. Hazardous decomposition products

Refer to chapter 5. No decomposition if used as intended In case of fire may be liberated: Carbon monoxide. Carbon dioxide. Thermal decomposition can lead to the escape of irritating gases and vapours.

# SECTION 11: Toxicological information

## 11.1. Information on toxicological effects

#### Toxicocinetics, metabolism and distribution

Mixture not tested. There are no data available on the preparation/mixture itself.

## Acute toxicity

Based on available data, the classification criteria are not met. There are no data available on the mixture itself.

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CAS No	Chemical name							
	Exposure route	Dose		Species	Source	Method		
64-17-5	ethanol, ethyl alcohol							
	oral	LD50 mg/kg	>2000	Rat				
	dermal	LD50 mg/kg	>2000	Rabbit				
	inhalation (4 h) vapour	LC50	>20 mg/l	Rat				
107-21-1	ethanediol, ethylene glyc	ol						
	oral	LD50 mg/kg	>2000	Rat				
			Mouse					
	inhalation (4 h) aerosol	LC50	>2,5 mg/l	Rat				

## Irritation and corrosivity

Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

There are no data available on the mixture itself.

## Sensitising effects

Based on available data, the classification criteria are not met. There are no data available on the mixture itself.

#### Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met. There are no data available on the mixture itself.

#### STOT-single exposure

Based on available data, the classification criteria are not met.

### STOT-repeated exposure

Repeated exposure may cause skin dryness or cracking.

There are no data available on the mixture itself.

## Aspiration hazard

Based on available data, the classification criteria are not met.

#### Specific effects in experiment on an animal

There are no data available on the mixture itself.

#### Additional information on tests

There are no data available on the mixture itself.

## Practical experience

#### Observations relevant to classification

The evaluation based on subjective human observations: May cause drowsiness or dizziness. Headache.

## Further information

Mixture not tested. There are no data available on the preparation/mixture itself.

## **SECTION 12: Ecological information**

## 12.1. Toxicity

Mixture not tested. There are no data available on the preparation/mixture itself.

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CAS No	Chemical name						
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method
64-17-5	ethanol, ethyl alcohol						
	Acute fish toxicity	LC50 mg/l	>100		Leuciscus idus (golden orfe)		
	Acute algae toxicity	ErC50 mg/l	>100	72 h	Chlorella vulgaris		
	Acute crustacea toxicity	EC50 mg/l	>100	48 h	Daphnia magna		
107-21-1	ethanediol, ethylene glyco	bl					
	Acute fish toxicity	LC50 mg/l	>100	96 h	Oncorhynchus mykiss (Rainbow trout)		
	Acute algae toxicity	ErC50 mg/l	>100	96 h	Selenastrum capricornutum		
	Acute crustacea toxicity	EC50 mg/l	>100	48 h	Daphnia magna		
	Fish toxicity	NOEC mg/l	15380	7 d	Pimephales promelas		
	Crustacea toxicity	NOEC mg/l	8590	7 d	Ceriodaphnia spec		

# 12.2. Persistence and degradability

No data available

## 12.3. Bioaccumulative potential

No data available

## Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
64-17-5	ethanol, ethyl alcohol	-0,32
107-21-1	ethanediol, ethylene glycol	-1,36

#### BCF

CAS No	Chemical name	BCF	Species	Source
64-17-5	ethanol, ethyl alcohol	0,66		

## 12.4. Mobility in soil

No data available

## 12.5. Results of PBT and vPvB assessment

No data available

#### 12.6. Other adverse effects

No data available

#### **Further information**

Avoid release to the environment. Mixture not tested. There are no data available on the preparation/mixture itself.

# **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

#### Advice on disposal

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation. The waste codes are recommendations based on the scheduled use of this products. Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2001/118/EC, 2001/119/EC, 2001/573/EC)

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According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

## Waste disposal number of used product

160114 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; end-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08); antifreeze fluids containing hazardous substances; hazardous waste

## Waste disposal number of contaminated packaging

150102 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); plastic packaging

#### Contaminated packaging

This material and its container must be disposed of as hazardous waste. Handle contaminated packages in the same way as the substance itself. Recommendation: Dispose of waste according to applicable legislation. E.g. Dispose of contents/container to industrial incineration plant. Or: Dispose of this material and its container to hazardous or special waste collection point.

Do not empty into drains.

#### **SECTION 14: Transport information**

#### Land transport (ADR/RID)

<u>14.1. UN number:</u>	UN1987	
14.2. UN proper shipping name:	ALCOHOLS, N.O.S. (Ethanol)	
<u>14.3. Transport hazard class(es):</u>	3	
14.4. Packing group:	III	
Hazard label:	3	
	3	
Classification code:	F1	
Special Provisions:	274 601	
Limited quantity:	5 L	
Transport category:	3	
Hazard No:	30	
Tunnel restriction code:	D/E	
Other applicable information (land transport)		
E1		
Inland waterways transport (ADN)		
<u>14.1. UN number:</u>	UN1987	
14.2. UN proper shipping name:	ALCOHOLS, N.O.S. (Ethanol)	
14.3. Transport hazard class(es):	3	
14.4. Packing group:	Ш	
Hazard label:		
	3	
	3	
Classification code:	3 5 F1	
Classification code: Special Provisions:		
	F1	



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Other applicable information (inland water E1	aterways transport)	
Marine transport (IMDG)		
<u>14.1. UN number:</u>	UN1987	
14.2. UN proper shipping name:	ALCOHOLS, N.O.S. (Ethanol)	
14.3. Transport hazard class(es):	3	
14.4. Packing group:	III	
Hazard label:	3	
Special Provisions:	223, 274	
Limited quantity: EmS:	5 L F-E, S-D	
Other applicable information (marine tr E1	ansport)	
Air transport (ICAO-TI/IATA-DGR)		
<u>14.1. UN number:</u>	UN1987	
14.2. UN proper shipping name:	ALCOHOLS, N.O.S.	
14.3. Transport hazard class(es):	3	
14.4. Packing group:	-	
Hazard label:	3	
Special Provisions:	A3 A180	
Limited quantity Passenger:	10 L	
IATA-packing instructions - Passenger:	355	
IATA-max. quantity - Passenger: IATA-packing instructions - Cargo:	60 L 366	
IATA-max. quantity - Cargo:	220 L	
Other applicable information (air trans)	port)	
Passenger-LQ: Y344		
14.6. Special precautions for user		
Warning: Combustible liquid.		
14.7. Transport in bulk according to Annex	I of Marpol and the IBC Code	
No data available		
SECTION 15: Regulatory information		
15.1. Safety, health and environmental reg	ulations/legislation specific for the substance or mixture	
EU regulatory information		
2010/75/EU (VOC):	56,411 % (547,192 g/l)	
2004/42/EC (VOC):	66,202 % (642,156 g/l)	
Additional information		
	conto regulation)	

Regulation (EC) No. 648/2004 (Detergents regulation).



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#### VELIND Scheibenfrostschutzkonzentrat -60°C Product code: 32061 Revision date: 16.08.2018 Page 12 of 12 National regulatory information Observe restrictions to employment for juvenils according to the 'iuvenile Employment restrictions: work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. 1 - slightly water contaminating

Water contaminating class (D):

#### 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

## **SECTION 16: Other information**

### Changes

This data sheet contains changes from the previous version in section(s): 13,14.

These details refer to the products as it is delivered.

Notice the directions for use on the label.

\* Data changed compared with the previous version

#### Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service LC50: Lethal concentration. 50% LD50: Lethal dose, 50%

## Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
EUH066	Repeated exposure may cause skin dryness or cracking.

## **Further Information**

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.

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