

according to Regulation (EC) No 1907/2006

### VELIND Scheibenfrostschutzkonzentrat -60°C

Revision date: 16.08.2018

Product code: 31255

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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:	+49 33 32 / 4 50 88 - 0	Telefax: +49 33 32 / 4 50 88 - 30
e-mail:	info@velind.de	
Contact person:	Witt	Telephone: 18
e-mail:	qs@velind.de	
Internet:	www.velind.de	
Responsible Department:	QS	

### 1.4. Emergency telephone number:

GGIZ der Länder Mecklenburg-Vorpommern, Sachsen, Sachsen-Anhalt und Thüringen: +49 3 61 / 7 30 73 -0

#### 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

H226 Flammable liquid and vapour.  
 H319 Causes serious eye irritation.

#### Precautionary statements

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

**Special labelling of certain mixtures**

EUH066 Repeated exposure may cause skin dryness or cracking.

**2.3. Other hazards**

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			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
64-17-5	ethanol, ethyl alcohol			55 - < 60 %
	200-578-6	603-002-00-5	01-2119457610-43	
	Flam. Liq. 2, Eye Irrit. 2; H225 H319 EUH066			
107-21-1	ethanediol, ethylene glycol			5 - < 10 %
	203-473-3	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 (CO<sub>2</sub>), 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. 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 defatting 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 exhaust 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/m <sup>3</sup>	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	Exposure route	Effect	Value
64-17-5	ethanol, ethyl alcohol			
Worker DNEL, acute		inhalation	local	1900 mg/m <sup>3</sup>
Worker DNEL, long-term		inhalation	systemic	950 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	343 mg/kg bw/day
Consumer DNEL, acute		inhalation	local	950 mg/m <sup>3</sup>
Consumer DNEL, long-term		inhalation	systemic	114 mg/m <sup>3</sup>
Consumer DNEL, long-term		oral	systemic	87 mg/kg bw/day
Consumer DNEL, long-term		dermal	systemic	206 mg/kg bw/day
107-21-1	ethanediol, ethylene glycol			
Worker DNEL, long-term		inhalation	local	35 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	106 mg/kg bw/day
Consumer DNEL, long-term		inhalation	local	7 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	53 mg/kg bw/day

### PNEC values

CAS No	Substance	Value
64-17-5	ethanol, ethyl alcohol	
Environmental compartment		
Freshwater		0,96 mg/l
Marine water		0,79 mg/l
Freshwater sediment		3,6 mg/l
Marine sediment		2,9 mg/l
Micro-organisms in sewage treatment plants (STP)		580 mg/l
Soil		0,63 mg/kg
107-21-1	ethanediol, ethylene glycol	
Freshwater		10 mg/l
Marine water		1 mg/l
Freshwater sediment		20,9 mg/kg
Micro-organisms in sewage treatment plants (STP)		199,5 mg/l
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 exhaust 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 protective 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:	liquid
Colour:	blue clear
Odour:	characteristic

pH-Value:	not determined
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#### Changes in the physical state

Melting point:	not determined
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Initial boiling point and boiling range:	>78 °C
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Flash point:	23 °C
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#### Flammability

Solid:	not applicable
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Gas:	not applicable
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#### Explosive properties

not explosive. In use, may form flammable/explosive vapour-air mixture.

Lower explosion limits:	not determined
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Upper explosion limits:	not determined
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Ignition temperature:	not determined
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#### Auto-ignition temperature

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Solid:	not applicable
Gas:	not applicable
Decomposition temperature:	not determined
<b>Oxidizing properties</b>	
Not oxidising.	
Vapour pressure:	not determined
Density:	0,91 g/cm <sup>3</sup>
Bulk density:	not applicable
Water solubility:	easily soluble
<b>Solubility in other solvents</b>	
not determined	
Partition coefficient:	not determined
Viscosity / dynamic:	not determined
Vapour density:	not determined
Evaporation rate:	not determined
<b>9.2. Other information</b>	
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**

**Toxicokinetics, 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 >2000 mg/kg	Rat		
	dermal	LD50 >2000 mg/kg	Rabbit		
	inhalation (4 h) vapour	LC50 >20 mg/l	Rat		
107-21-1	ethanediol, ethylene glycol				
	oral	LD50 >2000 mg/kg	Rat		
	dermal	LD50 >2000 mg/kg	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 >100 mg/l	96 h	Leuciscus idus (golden orfe)		
	Acute algae toxicity	ErC50 >100 mg/l	72 h	Chlorella vulgaris		
	Acute crustacea toxicity	EC50 >100 mg/l	48 h	Daphnia magna		
107-21-1	ethanediol, ethylene glycol					
	Acute fish toxicity	LC50 >100 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)		
	Acute algae toxicity	ErC50 >100 mg/l	96 h	Selenastrum capricornutum		
	Acute crustacea toxicity	EC50 >100 mg/l	48 h	Daphnia magna		
	Fish toxicity	NOEC 15380 mg/l	7 d	Pimephales promelas		
	Crustacea toxicity	NOEC 8590 mg/l	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)

**14.1. UN number:** 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



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)

**14.1. UN number:** 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



Classification code: F1  
 Special Provisions: 274 601  
 Limited quantity: 5 L

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#### Other applicable information (inland waterways transport)

E1

#### Marine transport (IMDG)

<b>14.1. UN number:</b>	UN1987
<b>14.2. UN proper shipping name:</b>	ALCOHOLS, N.O.S. (Ethanol)
<b>14.3. Transport hazard class(es):</b>	3
<b>14.4. Packing group:</b>	III
Hazard label:	3



Special Provisions:	223, 274
Limited quantity:	5 L
EmS:	F-E, S-D

#### Other applicable information (marine transport)

E1

#### 14.6. Special precautions for user

Warning: Combustible liquid.

#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No data available

### SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/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

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

##### National regulatory information

Employment restrictions: 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.

Water contaminating class (D): 1 - slightly water contaminating

#### 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): 2,3,4,5,6,7,8,9,10,11,12,13,14,15,16.

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

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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.)*