

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

### 1.1 Product identifier

Trade name: **Pro XL PRO2KCLEAR**

Article number: **PRO2KCLEAR**

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

Application of the substance / the mixture *Clear coating material, Varnish*

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

Manufacturer/Supplier:

PRO XL  
Second Avenue  
Chatham  
Kent

ME4 5AU

Tel: +44(0)1634823900

Fax: +44(0)1634813807

Email: [info@pro-xl.co.uk](mailto:info@pro-xl.co.uk)

Further information obtainable from: *Department Product Safety*

### 1.4 Emergency telephone number:

Tel: +44(0) 1634 823900 (08.00 / 17.00)

+31 629058130 (24 h/d, 7 d/wk)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Flam. Aerosol 1 · H222-H229 Extremely flammable aerosol: Pressurised container: May burst if heated.



GHS07

Skin Irrit. 2      H315      Causes skin irritation.

Skin Sens. 1      H317      May cause an allergic skin reaction.

STOT/SE 3      H336      May cause drowsiness or dizziness.

----- Aquatic Chronic 3 - H412 ----- Harmful to aquatic life with long lasting effects. -----

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



Xn; Harmful

R20/21: Harmful by inhalation and in contact with skin.



Xi; Sensitising

R43: May cause sensitisation by skin contact.



F+; Extremely flammable

R12: Extremely flammable.

R52/53-66: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Repeated exposure may cause skin dryness or cracking.

### Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.

Warning! Pressurized container.

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- **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

- **2.2 Label elements**

- **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

- **Hazard pictograms**



GHS02 GHS07

- **Signal word** *Danger*

- **Hazard-determining components of labelling:**

*aliphatic polycyanate*

*n-butyl acetate*

- **Hazard statements**

H222-H229 *Extremely flammable aerosol. Pressurised container: May burst if heated.*

H315 *Causes skin irritation.*

H317 *May cause an allergic skin reaction.*

H336 *May cause drowsiness or dizziness.*

H412 *Harmful to aquatic life with long lasting effects.*

- **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 smoking.*

P211 *Do not spray on an open flame or other ignition source.*

P251 *Do not pierce or burn, even after use.*

P260 *Do not breathe spray.*

P280 *Wear protective gloves.*

P302+P352 *IF ON SKIN: Wash with plenty of soap and water.*

P410+P412 *Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.*

P501 *Dispose of contents / container in accordance with regional regulations.*

- **Additional information:**

*EUH066 Repeated exposure may cause skin dryness or cracking.*

*Contains isocyanates. May produce an allergic reaction.*

*Buildup of explosive mixtures possible without sufficient ventilation.*

- **2.3 Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterization: Mixtures**

- **Description:** Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

CAS: 115-10-6	dimethyl ether	25-<50%
EINECS: 204-065-8	F+ R12	
Index number: 603-019-00-8	Flam. Gas 1, H220; Press. Gas, H280	
Reg.nr.: 01-2119472128-37		

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CAS: 123-86-4 EINECS: 204-658-1 Index number: 607-025-00-1 Reg.nr.: 01-2119485493-29	<i>n</i> -butyl acetate R10-66-67 Flam. Liq. 3, H226; STOT SE 3, H336	20-<25%
CAS: 1330-20-7 EINECS: 215-535-7 Index number: 601-022-00-9 Reg.nr.: 01-2119488216-32	xylene, mixture of isomers Xn R20/21; Xi R38 R10 Flam. Liq. 3, H226; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	12.5-<20%
CAS: 28182-81-2 Reg.nr.: 01-2119485796-17	aliphatic polycyanate Xn R20; Xi R37; Xi R43 Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335	2.5-<5.0%
CAS: 100-41-4 EINECS: 202-849-4 Index number: 601-023-00-4 Reg.nr.: 01-2119489370-35	ethylbenzene Xn R20-48/20-65; F R11 Flam. Liq. 2, H225; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H332; Aquatic Chronic 3, H412	2.5-<5.0%
CAS: 110-12-3 EINECS: 203-737-8 Index number: 606-026-00-4	5-methylhexan-2-one Xn R20 R10 Flam. Liq. 3, H226; Acute Tox. 4, H332	<2.5%
CAS: 64742-95-6 EINECS: 265-199-0 Index number: 649-356-00-4 Reg.nr.: 01-2119455851-35	Solvent naphtha (petroleum), light arom. Xn R65; Xi R37; N R51/53 R10-66-67 Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H335-H336	<2.5%
CAS: 108-10-1 EINECS: 203-550-1 Index number: 606-004-00-4 Reg.nr.: 01-2119473980-30	4-methylpentan-2-one Xn R20; Xi R36/37; F R11 R66 Flam. Liq. 2, H225; Acute Tox. 4, H332; Eye Irrit. 2, H319; STOT SE 3, H335	<2.5%
CAS: 95-63-6 EINECS: 202-436-9 Index number: 601-043-00-3	1,2,4-trimethylbenzene Xn R20; Xi R36/37/38; N R51/53 R10 Flam. Liq. 3, H226; Aquatic Chronic 2, H411; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	<2.5%
CAS: 53880-05-0 NLP: 500-125-5	3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers Xn R42/43 Resp. Sens. 1, H334; Skin Sens. 1, H317	<1.0%
ELINCS: 400-830-7 Index number: 607-176-00-3	Mixture of alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-hydroxypoly(oxyethylene) and alpha-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene) Xi R43; N R51/53 Aquatic Chronic 2, H411; Skin Sens. 1, H317	≤0.5%

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CAS: 108-67-8 EINECS: 203-604-4 Index number: 601-025-00-5	mesitylene ☒ Xi R37; ☒ N R51/53 R10 ☒ Flam. Liq. 3, H226; ☒ Aquatic Chronic 2, H411; ☒ STOT SE 3, H335	≤0.5%
CAS: 103-65-1 EINECS: 203-132-9 Index number: 601-024-00-X	propylbenzene ☒ Xn R65; ☒ Xi R37; ☒ N R51/53 R10 ☒ Flam. Liq. 3, H226; ☒ Asp. Tox. 1, H304; ☒ Aquatic Chronic 2, H411; ☒ STOT SE 3, H335	≤0.5%
CAS: 61788-93-0 EINECS: 263-020-0	Amines, coco alkyl dimethyl ☒ C R34; ☒ Xn R22; ☒ N R50 ☒ Skin Corr. 1B, H314; ☒ Aquatic Acute 1, H400; ☒ Acute Tox. 4, H302	≤0.5%
CAS: 41556-26-7 EINECS: 255-437-1 Reg.nr.: 01-2119491304-40	Decandicarbonsäure bis(1,2,2,6,6-pentamethyl-4-piperidinyl)ester ☒ Xi R43; ☒ N R50/53 ☒ Aquatic Acute 1, H400; ☒ Aquatic Chronic 1, H410; ☒ Skin Sens. 1, H317	≤0.5%
CAS: 97-86-9 EINECS: 202-613-0 Index number: 607-113-00-X	isobutyl methacrylate ☒ Xi R36/37/38; ☒ Xi R43; ☒ N R50 R10 ☒ Flam. Liq. 3, H226; ☒ Aquatic Acute 1, H400; ☒ Skin Irrit. 2, H315; ☒ Eye Irrit. 2, H319; ☒ Skin Sens. 1, H317; ☒ STOT SE 3, H335	≤0.5%

· **Additional information:**

The content of Benzene (EINECS-Nr. 200-753-7) in the ingredients is less than 0,1% (Note P Annex I 67/548 EU), so the classification as carcinogen need not to apply.

For the wording of the listed risk phrases refer to section 16.

**SECTION 4: First aid measures**

· **4.1 Description of first aid measures**

· **General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· **After inhalation:**

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

· **After eye contact:** Rinse opened eye for several minutes under running water.

· **After swallowing:** Drink plenty of water and provide fresh air. Call for a doctor immediately.

· **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

· **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

**SECTION 5: Firefighting measures**

· **5.1 Extinguishing media**

· **Suitable extinguishing agents:**

CO<sub>2</sub>, bluspoeder of waterstraal. Grotere brand met waterstraal of met schuim.

Vaten met water afkoelen.

· **For safety reasons unsuitable extinguishing agents:** Water with full jet

· **5.2 Special hazards arising from the substance or mixture** No further relevant information available.

· **5.3 Advice for firefighters -**

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· **Protective equipment:** Mouth respiratory protective device.

### SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

· **6.2 Environmental precautions:**

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

Do not allow product to reach sewage system or any water course.

· **6.3 Methods and material for containment and cleaning up:**

Do not flush with water or aqueous cleansing agents

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· **6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

· **Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

Store in a cool location.

Observe official regulations on storing packagings with pressurized containers.

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:**

Do not seal receptacle gas tight.

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

· **Storage class:** 2B

· **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

· **Additional information about design of technical facilities:** No further data; see item 7.

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

**115-10-6 dimethyl ether**

WEL Short-term value: 958 mg/m<sup>3</sup>, 500 ppm

Long-term value: 766 mg/m<sup>3</sup>, 400 ppm

**123-86-4 n-butyl acetate**

WEL Short-term value: 966 mg/m<sup>3</sup>, 200 ppm

Long-term value: 724 mg/m<sup>3</sup>, 150 ppm

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**1330-20-7 xylene, mixture of isomers**

WEL Short-term value: 441 mg/m<sup>3</sup>, 100 ppm  
Long-term value: 220 mg/m<sup>3</sup>, 50 ppm  
Sk; BMGV

**100-41-4 ethylbenzene**

WEL Short-term value: 552 mg/m<sup>3</sup>, 125 ppm  
Long-term value: 441 mg/m<sup>3</sup>, 100 ppm  
Sk

**110-12-3 5-methylhexan-2-one**

WEL Short-term value: 475 mg/m<sup>3</sup>, 100 ppm  
Long-term value: 95 mg/m<sup>3</sup>, 20 ppm  
Sk

**108-10-1 4-methylpentan-2-one**

WEL Short-term value: 416 mg/m<sup>3</sup>, 100 ppm  
Long-term value: 208 mg/m<sup>3</sup>, 50 ppm  
Sk, BMGV

**95-63-6 1,2,4-trimethylbenzene**

WEL Long-term value: 125 mg/m<sup>3</sup>, 25 ppm  
ILV

**· Ingredients with biological limit values:****1330-20-7 xylene, mixture of isomers**

BMGV 650 mmol/mol creatinine  
Medium: urine  
Sampling time: post shift  
Parameter: methyl hippuric acid

**108-10-1 4-methylpentan-2-one**

BMGV 20 µmol/L  
Medium: urine  
Sampling time: post shift  
Parameter: 4-methylpentan-2-one

· **Additional information:** The lists valid during the making were used as basis.

**· 8.2 Exposure controls****· Personal protective equipment:****· General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Do not inhale gases / fumes / aerosols.  
Avoid contact with the eyes and skin.

**· Respiratory protection:**

Not necessary if room is well-ventilated.  
Otherwise, filter class A / P2 or self contained.

**· Protection of hands:**

Protective gloves

Solvent resistant gloves

In case of contact with spray dust protective gloves made of butyl should be used (min. 0.4 mm thick), e.g. KCL Camatril, article no. 898 or similar products

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

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- **Material of gloves**  
Natural rubber, NR  
Butyl rubber, BR
- **Penetration time of glove material**  
Butyl rubber gloves with a thickness of 0.4 mm are resistant to:  
Acetone: 480 min  
Butyl acetate: 60 min  
Ethyl acetate: 170 min  
Xylene: 42 min
- **Eye protection:** Safety glasses

### SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

<b>Form:</b>	Aerosol
<b>Colour:</b>	According to product specification
<b>Odour:</b>	Characteristic
<b>Odour threshold:</b>	Not determined.
- **pH-value:** Not determined.
- **Change in condition**

<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	Not applicable, as aerosol.
- **Flash point:** Not applicable, as aerosol.
- **Flammability (solid, gaseous):** Not applicable.
- **Ignition temperature:** 235 °C
- **Decomposition temperature:** Not determined.
- **Self-igniting:** Product is not selfigniting.
- **Danger of explosion:** In use, may form flammable/explosive vapour-air mixture.
- **Explosion limits:**

<b>Lower:</b>	1.1 Vol %
<b>Upper:</b>	18.6 Vol %
- **Vapour pressure at 20 °C:** 5200 hPa
- **Density at 20 °C:** 0.83 g/cm<sup>3</sup>
- **Relative density** Not determined.
- **Vapour density** Not determined.
- **Evaporation rate** Not applicable.
- **Solubility in / Miscibility with water:** Not miscible or difficult to mix.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**

<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
- **Solvent content:**

<b>VOC-(EU)</b>	---
	675.7 g/l
<b>VOC-EU%</b>	81.67 %
- **Solids content:** 16.3 %

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## · 9.2 Other information

No further relevant information available.

**SECTION 10: Stability and reactivity**

- 10.1 Reactivity
- 10.2 Chemical stability
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

**SECTION 11: Toxicological information**

- 11.1 Information on toxicological effects
- Acute toxicity:

## · LD/LC50 values relevant for classification:

**1330-20-7 xylene, mixture of isomers**

Oral	LD50	8700 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rabbit)
Inhalative	LC50/4 h	6350 mg/l (rat)

**64742-95-6 Solvent naphtha (petroleum), light arom.**

Oral	LD50	3592 mg/kg (rat) (ECD-Prüfrichtlinie401)
Dermal	LD50	>3160 mg/kg (rab) (OECD-Prüfrichtlinie 402)
Inhalative	LC50/4 h	>10.2 mg/l (rat)

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**  
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:  
Harmful  
Irritant  
Vapours have narcotic effect.

**SECTION 12: Ecological information**

## · 12.1 Toxicity

## · Aquatic toxicity:

**1330-20-7 xylene, mixture of isomers**

EC50 (24h)	>175 mg/l (bacteria)
EC50 / 48h	3.82 mg/l (daphnia magna / Wasserfloh)
EC50/72h	4.7 mg/l (Pseudokirchneriella subcapitata)
LC50/96h	7.6 mg/l (oncorhynchus mykiss / Regenbogenforelle)

**64742-95-6 Solvent naphtha (petroleum), light arom.**

EC50 / 48h	>100 mg/l (daphnia magna / Wasserfloh)
EC50/96h	19 mg/l (desmdesmus subspicatus / Grünalge) (OECD - Prüfrichtlinie 201)
LC50/96h	>100 mg/l (Regenbogenforelle) (67/548/EWG Annex 5 C.1.)

- 12.2 Persistence and degradability No further relevant information available.

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- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Harmful to fish
- **Additional ecological information:**
- **General notes:**  
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.  
Harmful to aquatic organisms
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- **European waste catalogue**

08 01 11*	waste paint and varnish containing organic solvents or other dangerous substances
15 01 04	metallic packaging

- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

- **14.1 UN-Number**
- **ADR, IMDG, IATA** UN1950
- **14.2 UN proper shipping name**
- **ADR** UN1950 AEROSOLS
- **IMDG** AEROSOLS
- **IATA** AEROSOLS, flammable

- **14.3 Transport hazard class(es)**

- **ADR**



- **Class** 2 5F Gases.
- **Label** 2.1

- **IMDG, IATA**



- **Class** 2.1
- **Label** 2.1

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· <b>14.4 Packing group</b> · <b>ADR, IMDG, IATA</b>	Void
· <b>14.5 Environmental hazards:</b> · <b>Marine pollutant:</b>	No
· <b>14.6 Special precautions for user</b> · <b>Danger code (Kemler):</b> · <b>EMS Number:</b>	Warning: Gases. - F-D,S-U
· <b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADR</b> · <b>Limited quantities (LQ)</b> · <b>Excepted quantities (EQ)</b>	1L Code: E0 Not permitted as Excepted Quantity
· <b>Transport category</b> · <b>Tunnel restriction code</b>	2 D
· <b>IMDG</b> · <b>Limited quantities (LQ)</b> · <b>Excepted quantities (EQ)</b>	1L Code: E0 Not permitted as Excepted Quantity
· <b>UN "Model Regulation":</b>	UN1950, AEROSOLS, 2.1

**SECTION 15: Regulatory information**

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture .**
- **Waterhazard class:** Water hazard class 2 (Self-assessment): hazardous for water.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

· **Relevant phrases**

- H220 Extremely flammable gas.
- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H280 Contains gas under pressure; may explode if heated.
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.

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- H411 Toxic to aquatic life with long lasting effects.  
 H412 Harmful to aquatic life with long lasting effects.  
 R10 Flammable.  
 R11 Highly flammable.  
 R12 Extremely flammable.  
 R20 Harmful by inhalation.  
 R20/21 Harmful by inhalation and in contact with skin.  
 R22 Harmful if swallowed.  
 R34 Causes burns.  
 R36/37 Irritating to eyes and respiratory system.  
 R36/37/38 Irritating to eyes, respiratory system and skin.  
 R37 Irritating to respiratory system.  
 R38 Irritating to skin.  
 R42/43 May cause sensitisation by inhalation and skin contact.  
 R43 May cause sensitisation by skin contact.  
 R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.  
 R50 Very toxic to aquatic organisms.  
 R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
 R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
 R65 Harmful: may cause lung damage if swallowed  
 R66 Repeated exposure may cause skin dryness or cracking.  
 R67 Vapours may cause drowsiness and dizziness.

· **Contact:** Anwendungstechnik· **Abbreviations and acronyms:**

- RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
 ICAO: International Civil Aviation Organization  
 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 (division of the American Chemical Society)  
 VOC: Volatile Organic Compounds (USA, EU)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 Flam. Gas 1: Flammable gases, Hazard Category 1  
 Flam. Aerosol 1: Flammable aerosols, Hazard Category 1  
 Press. Gas: Gases under pressure: Compressed gas  
 Flam. Liq. 2: Flammable liquids, Hazard Category 2  
 Flam. Liq. 3: Flammable liquids, Hazard Category 3  
 Acute Tox. 4: Acute toxicity, Hazard Category 4  
 Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B  
 Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2  
 Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2  
 Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1  
 Skin Sens. 1: Sensitisation - Skin, Hazard Category 1  
 STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3  
 STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2  
 Asp. Tox. 1: Aspiration hazard, Hazard Category 1  
 Aquatic Acute 1: Hazardous to the aquatic environment - Acute Hazard, Category 1  
 Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1  
 Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2  
 Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3