

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier: XC3016****Trade name: Premium VOC 2K Clear Coat****1.2 Relevant identified uses of the substance or mixture and uses advised against** Identified uses: professional use.**Application of the substance / the mixture** Clear coating material, Varnish**1.3 Details of the supplier of the safety data sheet** **Manufacturer/Supplier: ReCorp s.r.o.**Jána Hollého 699/55  
Michalovce 071 01  
ICO: 47 503 181  
Tel.: +421 907 319 730**Further information obtainable from:** info@trixxal.com**1.4 Emergency telephone number:**Národné toxikologické a informačné centrum  
FNsP Akadémia L. Déreza  
Limbová 5, SK – 833 05 Bratislava  
+ 421 254 774 166 (24 hours per day)  
Fax: + 421 254 774 605**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

GHS02

Flam. Liq. 3      H226 Flammable liquid and vapour.



GHS07

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**

R10-52/53-66-67:      Flammable. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

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

isobutyl methacrylate

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

n-butyl acetate

heptan-2-one

**Hazard statements**

H226 Flammable liquid and vapour.

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H317 May cause an allergic skin reaction.  
H336 May cause drowsiness or dizziness.  
H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P261 Avoid breathing mist/vapours/spray.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Additional information:**

EUH066 Repeated exposure may cause skin dryness or cracking.

**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 characterisation: Mixtures**

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

<b>Dangerous components:</b>		
CAS: 123-86-4 EINECS: 204-658-1 Reg.nr.: 01-2119485493-29	n-butyl acetate R10-66-67 ----- ⚠ Flam. Liq. 3, H226; ⚠ STOT SE 3, H336	10-25%
CAS: 110-43-0 EINECS: 203-767-1 Reg.nr.: 01-2119902391-49	heptan-2-one ☒ Xn R20/22 R10-67 ----- ⚠ Flam. Liq. 3, H226; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332; STOT SE 3, H336	2.5-10%
EC number: 918-668-5 Reg.nr.: 01-2119455851-35	hydrocarbons, C9, aromatics ☒ 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	2.5-10%
CAS: 108-10-1 EINECS: 203-550-1 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	1-7.5%
CAS: 67-64-1 EINECS: 200-662-2 Reg.nr.: 01-2119471330-49	acetone ☒ Xi R36; ☒ F R11 R66-67 ----- ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336	0.1-1%
CAS: 75-65-0 EINECS: 200-889-7	2-methylpropan-2-ol ☒ Xn R20; ☒ Xi R36/37; ☒ F R11 ----- ⚠ Flam. Liq. 2, H225; ⚠ Acute Tox. 4, H332; Eye Irrit. 2, H319; STOT SE 3, H335	0.1-1%

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CAS: 127519-17-9 ELINCS: 407-000-3 Reg.nr.: 01-0000015648-61	reaction mass of branched and linear C7-C9 alkyl 3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]propionates ☠ N R51/53 ⚠ Aquatic Chronic 2, H411	0.1-<1%
EC number: 915-687-0 Reg.nr.: 01-2119491304-40	Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate ☠ Xi R43; ☠ N R50/53 ⚠ Aquatic Acute 1, H400; ⚠ Aquatic Chronic 1, H410; ⚠ Skin Sens. 1A, H317	0.1-<1%
CAS: 97-86-9 EINECS: 202-613-0	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	0.1-<0.5%
CAS: 64742-95-6 EINECS: 265-199-0	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	0.1-<0.5%
CAS: 108-65-6 EINECS: 203-603-9 Reg.nr.: 01-2119475791-29	2-methoxy-1-methylethyl acetate R10 ⚠ Flam. Liq. 3, H226	0.1-1%

**Additional information:** 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:

Immediately remove any clothing soiled by the product.

In case of irregular breathing or respiratory arrest provide artificial respiration.

Take affected persons out of danger area and lay down.

###### 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:** Do not induce vomiting; call for medical help 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>, sand, extinguishing powder. Do not use water.

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

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

Can form explosive gas-air mixtures.

Formation of toxic gases is possible during heating or in case of fire.

Carbon monoxide and carbon dioxide

##### 5.3 Advice for firefighters

###### Protective equipment:

Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

###### Additional information

Cool endangered receptacles with water spray.

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Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.  
Collect contaminated fire fighting water separately. It must not enter the sewage system.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Keep away from ignition sources.

**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.

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

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Do not flush with water or aqueous cleansing agents

**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 interior ventilation, especially at floor level. (Fumes are heavier than air).

Do not inhale gases / fumes / aerosols.

Do not eat, drink, smoke or sniff while working.

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

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

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Use explosion-proof apparatus / fittings and spark-proof tools.

Fumes can combine with air to form an explosive mixture.

**7.2 Conditions for safe storage, including any incompatibilities****Storage:**

**Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.

**Information about storage in one common storage facility:**

Store away from foodstuffs.

Store away from oxidising agents.

**Further information about storage conditions:**

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

Store receptacle in a well ventilated area.

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

WEL (Great Britain)	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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<b>110-43-0 heptan-2-one</b>	
WEL (Great Britain)	Short-term value: 475 mg/m <sup>3</sup> , 100 ppm Long-term value: 237 mg/m <sup>3</sup> , 50 ppm Sk
IOELV (EU)	Short-term value: 475 mg/m <sup>3</sup> , 100 ppm Long-term value: 238 mg/m <sup>3</sup> , 50 ppm Skin
<b>108-10-1 4-methylpentan-2-one</b>	
WEL (Great Britain)	Short-term value: 416 mg/m <sup>3</sup> , 100 ppm Long-term value: 208 mg/m <sup>3</sup> , 50 ppm Sk, BMGV
IOELV (EU)	Short-term value: 208 mg/m <sup>3</sup> , 50 ppm Long-term value: 83 mg/m <sup>3</sup> , 20 ppm
<b>67-64-1 acetone</b>	
WEL (Great Britain)	Short-term value: 3620 mg/m <sup>3</sup> , 1500 ppm Long-term value: 1210 mg/m <sup>3</sup> , 500 ppm
IOELV (EU)	Long-term value: 1210 mg/m <sup>3</sup> , 500 ppm
<b>75-65-0 2-methylpropan-2-ol</b>	
WEL (Great Britain)	Short-term value: 462 mg/m <sup>3</sup> , 150 ppm Long-term value: 308 mg/m <sup>3</sup> , 100 ppm
<b>108-65-6 2-methoxy-1-methylethyl acetate</b>	
WEL (Great Britain)	Short-term value: 548 mg/m <sup>3</sup> , 100 ppm Long-term value: 274 mg/m <sup>3</sup> , 50 ppm Sk
IOELV (EU)	Short-term value: 550 mg/m <sup>3</sup> , 100 ppm Long-term value: 275 mg/m <sup>3</sup> , 50 ppm Skin
<b>DNELs</b>	
<b>123-86-4 n-butyl acetate</b>	
Dermal	DNEL 7 mg/kg bw/day (long-term - systemic effects, workers)
Inhalative	DNEL 48 mg/m <sup>3</sup> (long-term - systemic effects, workers)
<b>hydrocarbons, C9, aromatics</b>	
Dermal	DNEL 25 mg/kg bw/day (long-term - systemic effects, workers)
Inhalative	DNEL 150 mg/m <sup>3</sup> (long-term - systemic effects, workers)
<b>108-10-1 4-methylpentan-2-one</b>	
Dermal	DNEL 11.8 mg/kg bw/day (long-term - systemic effects, workers)
Inhalative	DNEL 208 mg/m <sup>3</sup> (acute - systemic effects, workers) 208 mg/m <sup>3</sup> (acute - local effects, workers) 83 mg/m <sup>3</sup> (long-term - systemic effects, workers) 83 mg/m <sup>3</sup> (long-term - local effects, workers)
<b>67-64-1 acetone</b>	
Dermal	DNEL 186 mg/kg bw/day (long-term - systemic effects, workers)
Inhalative	DNEL 2420 mg/m <sup>3</sup> (acute - local effects, workers) 1210 mg/m <sup>3</sup> (long-term - systemic effects, workers)
<b>108-65-6 2-methoxy-1-methylethyl acetate</b>	
Dermal	DNEL 153.5 mg/kg bw/day (long-term - systemic effects, workers)
Inhalative	DNEL 275 mg/m <sup>3</sup> (long-term - systemic effects, workers)

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<b>PNECs</b>	
<b>123-86-4 n-butyl acetate</b>	
<b>PNEC</b>	0.18 mg/l (freshwater environment) 0.018 mg/l (marine environment) 0.36 mg/l (intermittent releases) 0.981 mg/kg (freshwater sediment environment) 0.0981 mg/kg (marine sediment environment) 0.0903 mg/kg (soil) 35.6 mg/l (sewage treatment plants)
<b>108-10-1 4-methylpentan-2-one</b>	
<b>PNEC</b>	0.6 mg/l (freshwater environment) 0.06 mg/l (marine environment) 1.5 mg/l (intermittent releases) 8.27 mg/kg (freshwater sediment environment) 0.83 mg/kg (marine sediment environment) 27.5 mg/l (sewage treatment plants)
<b>67-64-1 acetone</b>	
<b>PNEC</b>	10.6 mg/l (freshwater environment) 1.06 mg/l (marine environment) 21 mg/l (intermittent releases) 30.4 mg/kg (freshwater sediment environment) 3.04 mg/kg (marine sediment environment) 29.5 mg/kg (soil) 100 mg/l (sewage treatment plants)
<b>108-65-6 2-methoxy-1-methylethyl acetate</b>	
<b>PNEC</b>	0.635 mg/l (freshwater environment) 0.0635 mg/l (marine environment) 6.35 mg/l (intermittent releases) 3.29 mg/kg (freshwater sediment environment) 0.329 mg/kg (marine sediment environment) 0.29 mg/kg (soil) 100 mg/l (sewage treatment plants)
<b>Ingredients with biological limit values:</b>	
<b>108-10-1 4-methylpentan-2-one</b>	
<b>BMGV (Great Britain)</b>	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:**

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

Keep ignition sources away - Do not smoke.

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Do not eat or drink while working.

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**Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Use suitable respiratory protective device in case of insufficient ventilation.

**Protection of hands:**

Protective gloves

Check the permeability prior to each renewed use of the glove.

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 (EN 374).

**Material of gloves**

Butyl rubber, BR

Nitrile rubber, NBR

PVA gloves

Recommended thickness of the material:  $\geq 0,7$  mm

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

**Penetration time of glove material**

Value for the permeation: Level 6  $\geq 480$  min.

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:**

Tightly sealed goggles

**Body protection:** Protective work clothing

## SECTION 9: Physical and chemical properties

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

<b>Form:</b>	Fluid
<b>Colour:</b>	Colourless
<b>Odour:</b>	Characteristic
<b>Odour threshold:</b>	Not determined.

**pH-value:** Not applicable.

**Change in condition**

<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	114 °C Undetermined.

**Flash point:**  $> 23$  °C

**Flammability (solid, gaseous):** Not applicable.

**Decomposition temperature:** Not determined.

**Auto-ignition temperature:** Not determined.

**Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

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<b>Explosion limits:</b>	
<b>Lower:</b>	0.7 Vol %
<b>Upper:</b>	15.0 Vol %
<b>Vapour pressure at 20 °C:</b>	10.7 hPa
<b>Density at 20 °C:</b>	0.98 g/cm <sup>3</sup>
<b>Vapour density</b>	Not determined.
<b>Evaporation rate</b>	Not determined.
<b>Solubility in / Miscibility with water:</b>	Not miscible or difficult to mix.
<b>Partition coefficient (n-octanol/water):</b>	Not determined.
<b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
<b>9.2 Other information</b>	No further relevant information available.

### SECTION 10: Stability and reactivity

**10.1 Reactivity** No decomposition if used according to specifications.

**10.2 Chemical stability** No decomposition if used and stored according to specifications.

**10.3 Possibility of hazardous reactions**

Reacts with alkali, amines and strong acids.

Reacts with oxidising agents.

Fumes can combine with air to form an explosive mixture.

**10.4 Conditions to avoid** Protect from heat and direct sunlight.

**10.5 Incompatible materials:** No further relevant information available.

**10.6 Hazardous decomposition products:**

Carbon monoxide and carbon dioxide

Formation of toxic gases is possible during heating or in case of fire.

### SECTION 11: Toxicological information

**11.1 Information on toxicological effects**

**Acute toxicity:**

<b>LD/LC50 values relevant for classification:</b>		
<b>123-86-4 n-butyl acetate</b>		
Oral	LD50	10760 mg/kg (rat)
Dermal	LD50	>14000 mg/kg (rabbit)
Inhalative	LC50/4 h	23.4 mg/l (rat)
<b>110-43-0 heptan-2-one</b>		
Oral	LD50	1600 mg/kg (rat)
Dermal	LD50	> 2000 mg/kg (rabbit)
Inhalative	LC50/4 h	> 16.7 mg/l (rat)
<b>hydrocarbons, C9, aromatics</b>		
Oral	LD50	3592 mg/kg (rat)
Dermal	LD50	>3160 mg/kg (-)
Inhalative	LC50/4 h	>6193 mg/l (rat)
<b>108-10-1 4-methylpentan-2-one</b>		
Oral	LD50	2080 mg/kg (rat)
Dermal	LD50	16000 mg/kg (rab)

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Inhalative	LC50/4 h	10-20 mg/l (rat)
<b>67-64-1 acetone</b>		
Oral	LD50	5800 mg/kg (rat)
Dermal	LD50	7400 mg/kg (rabbit)
Inhalative	LC50/4 h	76 mg/l (rat)
<b>75-65-0 2-methylpropan-2-ol</b>		
Oral	LD50	3500 mg/kg (rat)
<b>97-86-9 isobutyl methacrylate</b>		
Oral	LD50	11990 mg/kg (mouse)
<b>64742-95-6 Solvent naphtha (petroleum), light arom.</b>		
Oral	LD50	>6800 mg/kg (rat)
Dermal	LD50	>3400 mg/kg (rab)
<b>108-65-6 2-methoxy-1-methylethyl acetate</b>		
Oral	LD50	8532 mg/kg (rat)
Inhalative	LC50/6 h	4345 mg/l (rat)

**Primary irritant effect:***on the skin:* No irritant effect.*on the eye:* No irritating effect.*Sensitisation:* No sensitising effects known.**SECTION 12: Ecological information****12.1 Toxicity****Aquatic toxicity:****hydrocarbons, C9, aromatics**

EC50/48h	3.2 mg/l (Daphnia magna)
EC50/72h	2.9 mg/l (Pseudokirchnerella subcapitata)
LC50/96h	9.2 mg/l (oncorhynchus mykiss)

**12.2 Persistence and degradability****123-86-4 n-butyl acetate**

Biodegradation 83 % (readily biodegradable) (OECD 301 D, 28 d, aerobic)

**hydrocarbons, C9, aromatics**

Biodegradation 78 % (readily biodegradable) (OECD 301 F)

**12.3 Bioaccumulative potential****123-86-4 n-butyl acetate**

BCF	15.3 (-)
log Kow	2.3 (-)

**12.4 Mobility in soil** No further relevant information available.**Additional ecological information:****General notes:**

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.

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### 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
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##### Uncleaned packaging:

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

### SECTION 14: Transport information

<b>14.1 UN-Number</b> ADR, IMDG, IATA	UN1263
<b>14.2 UN proper shipping name</b> ADR IMDG, IATA	1263 PAINT PAINT
<b>14.3 Transport hazard class(es)</b> ADR, IMDG, IATA Class Label	3 Flammable liquids. 3
<b>14.4 Packing group</b> ADR, IMDG, IATA	III
<b>14.5 Environmental hazards:</b> Marine pollutant:	No
<b>14.6 Special precautions for user</b> Danger code (Kemler): EMS Number:	Warning: Flammable liquids. 30 F-E,S-E
<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>	
ADR Limited quantities (LQ) Transport category Tunnel restriction code	5L 3 D/E
UN "Model Regulation":	UN1263, PAINT, 3, III

### SECTION 15: Regulatory information

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

##### National regulations:

##### Information about limitation of use:

Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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**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**

- H225 Highly flammable liquid and vapour.  
H226 Flammable liquid and vapour.  
H302 Harmful if swallowed.  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
H335 May cause respiratory irritation.  
H336 May cause drowsiness or dizziness.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.  
H411 Toxic to aquatic life with long lasting effects.
- R10 Flammable.  
R11 Highly flammable.  
R20 Harmful by inhalation.  
R20/22 Harmful by inhalation and if swallowed.  
R36 Irritating to eyes.  
R36/37 Irritating to eyes and respiratory system.  
R36/37/38 Irritating to eyes, respiratory system and skin.  
R37 Irritating to respiratory system.  
R43 May cause sensitisation by skin contact.  
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.

**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 Harmonised 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)  
DNEL: Derived No-Effect Level (REACH)  
PNEC: Predicted No-Effect Concentration (REACH)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
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 Irrit. 2: Skin corrosion/irritation, Hazard Category 2  
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2  
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1  
Skin Sens. 1A: Sensitisation - Skin, Hazard Category 1A  
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3  
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  
**Sources** European Chemicals Agency, <http://echa.europa.eu/>