

# Safety Data Sheet

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



**Trade name :** 2K-PUR-Acryl Silk Matt Enamel 5741  
2K-PUR-Acryl Seidenglanzlack 5741  
**Revision date :** 22.02.2021  
**Print date :** 22.02.2021

**Version (Revision) :** 28.0.0 (27.0.1)

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

### 1.1 Product identifier

2K-PUR-Acryl Silk Matt Enamel 5741  
2K-PUR-Acryl Seidenglanzlack 5741

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

#### Relevant identified uses

##### Products Category [PC]

PC9 - Coatings and paints, fillers, putties, thinners

#### Uses advised against

The 2K-PUR products (2K-PUR-Acryl High Gloss Enamel 5740 incl. 2K-PUR-Acryl Hardener 5770 and 2K-PUR-Acryl Silk Matt Enamel 5741 incl. 2K-PUR-Acryl Hardener 5770) may be used only in industrial and professional applications. A use in Do-it Yourself applications is warning.

The main component of the 2K-PUR-Acryl Hardener 5770 were registered for the splashing and spraying application in accordance with the REACH regulations.

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

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

Brillux GmbH & Co KG  
www.brillux.de

**Street :** Weseler Straße 401

**Postal code/city :** D - 48163 Münster

**Telephone :** +49 (0)251-7188-0

**Telefax :** +49 (0)251-7188-280

#### Information contact :

Electronic mail address of the well-informed person for safety data sheets:sdb@brillux.de

### 1.4 Emergency telephone number

Outside the business hours (9 a.m. to 5 p.m.):

(Giftinformationszentrum-Nord, Göttingen, consultation in german or english language)

Telephone: +49 (0)551-19240.

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

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

Aquatic Chronic 2 ; H411 - Hazardous to the aquatic environment : Chronic 2 ; Toxic to aquatic life with long lasting effects.

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

STOT SE 3 ; H335 - STOT-single exposure : Category 3 ; May cause respiratory irritation.

STOT SE 3 ; H336 - STOT-single exposure : Category 3 ; May cause drowsiness or dizziness.

### 2.2 Label elements

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

##### Hazard pictograms



Flame (GHS02) · Environment (GHS09) · Exclamation mark (GHS07)

##### Signal word

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Warning

## Hazard components for labelling

HYDROCARBONS, C9, AROMATICS  
N-BUTYL ACETATE ; CAS No. : 123-86-4  
XYLENE ; CAS No. : 1330-20-7

## Hazard statements

H226 Flammable liquid and vapour.  
H335 May cause respiratory irritation.  
H336 May cause drowsiness or dizziness.  
H411 Toxic to aquatic life with long lasting effects.

## Precautionary statements

P261 Avoid breathing spray.  
P501 Dispose of contents/container to approved disposal company or local collection.  
P102 Keep out of reach of children.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P271 Use only outdoors or in a well-ventilated area.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P312 Call a POISON CENTER or a doctor if you feel unwell.  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
P391 Collect spillage.

## Supplemental Hazard information (EU)

EUH066 Repeated exposure may cause skin dryness or cracking.

## Special rules for supplemental label elements for certain mixtures

EUH208 Contains REACTION MASS OF BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) SEBACATE AND METHYL(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) SEBACATE ; FATTY ACIDS, TALL OIL, TRIMERE, COMPOUNDS WITH OLEYLAMINE ; FATTY ACIDS, TALL OIL, COMPOUNDS WITH OLEYLAMINE. May produce an allergic reaction.

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

## 2.3 Other hazards

### Adverse environmental effects

The product does not contain any substances, which fulfil the criteria for PBT or vPvB in accordance with the Annex XIII of the Regulation (EC) No 1907/2006 (REACH-Regulation).

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Description

Paint based on Acrylic resins;  
Composition:  
Acrylic resins, titanium dioxide (depending on the shade), inorganic/organic coloured pigments (depending on the shade), extenders, aromatic hydrocarbons, ester and additives.

#### Hazardous ingredients

HYDROCARBONS, C9, AROMATICS ; REACH No. : 01-2119455851-35 ; EC No. : 918-668-5

Weight fraction :  $\geq 15 - < 20$  %  
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Asp. Tox. 1 ; H304 STOT SE 3 ; H335 STOT SE 3 ; H336 Aquatic Chronic 2 ; H411

N-BUTYL ACETATE ; REACH No. : 01-2119485493-29 ; EC No. : 204-658-1; CAS No. : 123-86-4

Weight fraction :  $\geq 5 - < 10$  %

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Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 STOT SE 3 ; H336  
2-METHOXY-1-METHYLETHYL ACETATE ; REACH No. : 01-2119475791-29 ; EC No. : 203-603-9; CAS No. : 108-65-6  
Weight fraction :  $\geq 5 - < 10$  %  
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 STOT SE 3 ; H336  
XYLENE ; REACH No. : 01-2119488216-32 ; EC No. : 215-535-7; CAS No. : 1330-20-7  
Weight fraction :  $\geq 5 - < 10$  %  
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Asp. Tox. 1 ; H304 STOT RE 2 ; H373 Acute Tox. 4 ;  
H312 Acute Tox. 4 ; H332 Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319 STOT SE 3 ;  
H335  
TITANIUM DIOXIDE ; EC No. : 236-675-5; CAS No. : 13463-67-7  
Weight fraction :  $\geq 1 - < 30$  %  
Classification 1272/2008 [CLP] : Carc. 2 ; H351i  
ETHYLBENZENE ; REACH No. : 01-2119489370-35 ; EC No. : 202-849-4; CAS No. : 100-41-4  
Weight fraction :  $\geq 1 - < 5$  %  
Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Asp. Tox. 1 ; H304 STOT RE 2 ; H373 Acute Tox. 4 ; H332  
REACTION MASS OF BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) SEBACATE AND METHYL(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) SEBACATE ; REACH No. : 01-2119491304-40 ; EC No. : 915-687-0; CAS No. : 1065336-91-5 (M=1)  
Weight fraction :  $\geq 0,1 - < 1$  %  
Classification 1272/2008 [CLP] : Skin Sens. 1 ; H317 Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410  
FATTY ACIDS, TALL OIL, TRIMERE, COMPOUNDS WITH OLEYLAMINE ; CAS No. : 147900-93-4  
Weight fraction :  $\geq 0,01 - < 0,1$  %  
Classification 1272/2008 [CLP] : STOT RE 2 ; H373 Acute Tox. 4 ; H302 Skin Irrit. 2 ; H315 Skin Sens. 1A ; H317  
FATTY ACIDS, TALL OIL, COMPOUNDS WITH OLEYLAMINE ; EC No. : 288-315-1; CAS No. : 85711-55-3  
Weight fraction :  $\geq 0,01 - < 0,1$  %  
Classification 1272/2008 [CLP] : STOT RE 2 ; H373 Acute Tox. 4 ; H302 Skin Irrit. 2 ; H315 Skin Sens. 1A ; H317

### Additional information

The used hydrocarbons contain no benzene or benzene in concentrations less than 0.1 percent by weight and fulfil therefore the default(handicap) of the remark P to the appendix VI of the order (EC) No. 1272/2008 (GHS order).  
Full text of H- and EUH-phrases: see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

In all cases of doubt, or when symptoms persist, seek medical attention. Immediately remove all contaminated clothing. In case of unconsciousness: lay on side - call a doctor. Never give anything by mouth to an unconscious person. If medical advice is needed, have product container or label at hand.

#### Following inhalation

When symptoms persists, take the casualty into the fresh air and keep warm. Irregular breathing/no breathing: artificial respiration. Call a doctor and tell him the exactly substance.

#### In case of skin contact

Take off immediately all contaminated clothes. Wash away with soap and water and rinse. Do NOT use solvents or thinners. If skin irritation continues, consult a doctor.

#### After eye contact

Remove contact lenses, keep eyelids open. Rinse open eye immediately with plenty of running water. Seek medical advice if complaint continues.

#### After ingestion

Drink water in small draught. Keep at rest. Do not induce vomiting. When swallowed immediately consult and show packing or label to physician.

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

Potential symptoms: Headache, dizziness, giddiness, skin irritation, eye iriitation and irritation to respiratory tract are possible. Allergic symptoms.

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#### 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 media

In case of fire: Use alcohol resistant foam, CO<sub>2</sub>, powders or water spray for extinction.

##### Unsuitable extinguishing media

In case of fire: Do not use waterjet for extinction.

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

##### Hazardous combustion products

Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

#### 5.3 Advice for firefighters

##### Special protective equipment for firefighters

At a fire caused by the product a breathing apparatus with an independent source of air is to have ready and to use if necessary for the firefighting. Personnel should wear protective clothing.

#### 5.4 Additional information

Cool endangered containers with water in case of fire. Do not allow run-off from fire-fighting to enter drains or water courses.

### SECTION 6: Accidental release measures

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

Refer to protective measures listed in sections 7 and 8. Keep away from ignition sources on account of the organic solvent content and air room well. Do not inhale vapours. Avoid contact with eyes and skin.

#### 6.2 Environmental precautions

Do not empty into drains. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations. Holding polluted washing water back and disposing of duly.

#### 6.3 Methods and material for containment and cleaning up

##### For cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). The areas concerned cleaning with a customary water based cleaning agent, not using organic solvents if possible.

#### 6.4 Reference to other sections

See Section 7 for information on safe handling.

You find information about the safety equipment of persons in the section 8, information about the refuse disposal in section 13.

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

##### Protective measures

Ensure a good ventilation in room and working area. Prevent the creation of inflammable or explosive concentrations of vapour in air and avoid vapour concentrations higher than the OEL (=Occupational Exposure Limit). Only use the material in places where open light, fire and other flammable sources can be kept away. For personal protection see Section 8. Avoid contact with skin and eyes. Read label before use.

##### Measures to prevent fire

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

Avoid concentrations which form ignitable or explosive vapour and air mixtures. Likewise, avoid any concentration of vapour above the MAC-value. Keep away from ignition sources - No smoking. Ground/bond container and receiving

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equipment. Use explosion-proof pipes, electrical, ventilating and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

**Measures to prevent aerosol and dust generation**

Do not breathe gas or spray.

**Advices on general occupational hygiene**

While working do not eat, drink or smoke. Wash hands and face before breaks and after work and take a shower if necessary. Immediately remove all contaminated clothing.

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

**Requirements for storage rooms and vessels**

Electrical equipment should be protected to the appropriate standard. Floors should be of the conducting type. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Never use pressure to empty: container is not a pressure vessel. No smoking. Prevent unauthorized access. Do not store the product in lounge room. Keep only in the original container. Keep out of the reach of children. Store in a well-ventilated place. Keep cool.

**Hints on joint storage**

Keep away from oxidizing agents, from strongly alkaline and strongly acid materials. Store away from foodstuffs.

**Storage class (TRGS 510) :** 3

**Further information on storage conditions**

Keep container tightly sealed. Store at 5°-35°C. Containers should be kept dry and sealed.

**7.3 Specific end use(s)**

For using the product observe the information in the Technical data sheet of the product.

**Industrial sector specific solutions**

**GISCODE :** Product code in accordance to GISBAU (hazardous materials information system of the German professional associations of the building and construction industry): PU 50.

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

**8.1 Control parameters**

**Occupational exposure limit values**

HYDROCARBONS, C9, AROMATICS

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

Parameter :	Group limit for the calculation of the occupational exposure limit for hydrocarbon mixtures (see section 2.9 of Technical Rule 900).
Limit value :	50 mg/m <sup>3</sup>
Version :	

N-BUTYL ACETATE ; CAS No. : 123-86-4

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

Limit value :	62 ppm / 300 mg/m <sup>3</sup>
Peak limitation :	2(I)
Remark :	Y
Version :	27.10.2020

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

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

Limit value :	50 ppm / 270 mg/m <sup>3</sup>
Peak limitation :	1(I)
Remark :	Y
Version :	27.10.2020

XYLENE ; CAS No. : 1330-20-7

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

Limit value :	100 ppm / 440 mg/m <sup>3</sup>
Peak limitation :	4
Version :	01.10.1993

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ETHYLBENZENE ; CAS No. : 100-41-4  
Limit value type (country of origin) : TRGS 900 ( D )  
Limit value : 20 ppm / 88 mg/m<sup>3</sup>  
Peak limitation : 2(II)  
Remark : H, Y, DFG  
Version : 02.07.2009

#### Remark

Short time value (STEL): Excess factor 2 (II) according to the german TRGS 900.  
Taking into account the details mentioned in the TRGS 900 for the supervision of AGW.

#### Biological limit values

XYLENE ; CAS No. : 1330-20-7  
Limit value type (country of origin) : TRGS 903 ( D )  
Parameter : Methylhippuric acid / Urine (U) / End of exposure or end of shift  
Limit value : 2000 mg/l  
Version : 01.10.1993

ETHYLBENZENE ; CAS No. : 100-41-4  
Limit value type (country of origin) : TRGS 903 ( D )  
Parameter : Mandelic acid + Phenylglyoxyl acid / Urine (U) / End of exposure or end of shift  
Limit value : 250 mg/g Kr  
Version : 31.03.2004

#### DNEL-/PNEC-values

##### DNEL/DMEL

Limit value type : DNEL/DMEL (Consumer) ( HYDROCARBONS, C9, AROMATICS )  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 11 mg/kg  
Safety factor : 1 D

Limit value type : DNEL/DMEL (Consumer) ( HYDROCARBONS, C9, AROMATICS )  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 32 mg/m<sup>3</sup>

Limit value type : DNEL/DMEL (Consumer) ( HYDROCARBONS, C9, AROMATICS )  
Exposure route : Oral  
Exposure frequency : Long-term  
Limit value : 11 mg/kg  
Safety factor : 1 D

Limit value type : DNEL/DMEL (Professional) ( HYDROCARBONS, C9, AROMATICS )  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 25 mg/kg  
Safety factor : 1 D

Limit value type : DNEL/DMEL (Professional) ( HYDROCARBONS, C9, AROMATICS )  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 150 mg/m<sup>3</sup>

Limit value type : DNEL/DMEL (Consumer) ( 2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6 )  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 54,8 mg/kg

Limit value type : DNEL/DMEL (Consumer) ( XYLENE ; CAS No. : 1330-20-7 )  
Exposure route : Inhalation  
Exposure frequency : Short-term  
Limit value : 174 mg/m<sup>3</sup>

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Limit value type : DNEL/DMEL (Consumer) ( 2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6 )

Exposure route : Inhalation

Exposure frequency : Long-term

Limit value : 33 mg/m<sup>3</sup>

Limit value type : DNEL/DMEL (Consumer) ( XYLENE ; CAS No. : 1330-20-7 )

Exposure route : Inhalation

Exposure frequency : Long-term

Limit value : 14,8 mg/m<sup>3</sup>

Limit value type : DNEL/DMEL (Consumer) ( 2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6 )

Exposure route : Oral

Exposure frequency : Long-term

Limit value : 1,67 mg/kg

Limit value type : DNEL/DMEL (Consumer) ( XYLENE ; CAS No. : 1330-20-7 )

Exposure route : Oral

Exposure frequency : Long-term

Limit value : 1,6 mg/kg

Safety factor : 1 D

Limit value type : DNEL/DMEL (Consumer) ( XYLENE ; CAS No. : 1330-20-7 )

Exposure route : Dermal

Exposure frequency : Long-term

Limit value : 108 mg/kg

Safety factor : 1 D

Limit value type : DNEL Consumer (systemic) ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )

Exposure route : Inhalation

Exposure frequency : Long-term

Limit value : 102,34 mg/m<sup>3</sup>

Limit value type : DNEL/DMEL (Industrial) ( 2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6 )

Exposure route : Inhalation

Exposure frequency : Long-term

Limit value : 275 mg/m<sup>3</sup>

Limit value type : DNEL/DMEL (Industrial) ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )

Exposure route : Inhalation

Exposure frequency : Short-term

Limit value : 96 mg/kg

Limit value type : DNEL/DMEL (Industrial) ( 2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6 )

Exposure route : Dermal

Exposure frequency : Long-term

Limit value : 153,5 mg/kg

Limit value type : DNEL/DMEL (Industrial) ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )

Exposure route : Inhalation

Exposure frequency : Long-term

Limit value : 48 mg/m<sup>3</sup>

Limit value type : DNEL/DMEL (Industrial) ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )

Exposure route : Dermal

Exposure frequency : Long-term

Limit value : 7 mg/kg

Limit value type : DNEL/DMEL (Industrial) ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )

Exposure route : Inhalation

Exposure frequency : Long-term

Limit value : 480 mg/m<sup>3</sup>

Limit value type : DNEL/DMEL (Professional) ( XYLENE ; CAS No. : 1330-20-7 )

Exposure route : Inhalation

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Exposure frequency : Short-term  
Limit value : 289 mg/m<sup>3</sup>  
Limit value type : DNEL/DMEL (Professional) ( XYLENE ; CAS No. : 1330-20-7 )  
Exposure route : Dermal  
Exposure frequency : Short-term  
Limit value : 174 mg/m<sup>3</sup>  
Limit value type : DNEL/DMEL (Professional) ( XYLENE ; CAS No. : 1330-20-7 )  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 77 mg/m<sup>3</sup>  
Limit value type : DNEL/DMEL (Industrial) ( ETHYLBENZENE ; CAS No. : 100-41-4 )  
Exposure route : Inhalation  
Exposure frequency : Short-term  
Limit value : 289 mg/m<sup>3</sup>  
Limit value type : DNEL/DMEL (Industrial) ( ETHYLBENZENE ; CAS No. : 100-41-4 )  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 77 mg/m<sup>3</sup>  
Limit value type : DNEL/DMEL (Industrial) ( ETHYLBENZENE ; CAS No. : 100-41-4 )  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 180 mg/kg

## PNEC

Limit value type : PNEC (Aquatic, freshwater) ( 2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6 )  
Exposure route : Water (Including sewage plant)  
Limit value : 0,635 mg/l  
Limit value type : PNEC (Aquatic, freshwater) ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )  
Exposure route : Water (Including sewage plant)  
Limit value : 0,18 mg/l  
Limit value type : PNEC (Aquatic, freshwater) ( XYLENE ; CAS No. : 1330-20-7 )  
Exposure route : Water (Including sewage plant)  
Limit value : 0,327 mg/l  
Limit value type : PNEC (Aquatic, intermittent release) ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )  
Exposure route : Water (Including sewage plant)  
Limit value : 0,36 mg/l  
Limit value type : PNEC (Aquatic, marine water) ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )  
Exposure route : Water (Including sewage plant)  
Limit value : 0,018 mg/l  
Limit value type : PNEC (Aquatic, marine water) ( 2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6 )  
Exposure route : Water (Including sewage plant)  
Limit value : 0,0635 mg/l  
Limit value type : PNEC (Sediment, freshwater) ( XYLENE ; CAS No. : 1330-20-7 )  
Exposure route : Water (Including sewage plant)  
Limit value : 12,46 mg/kg  
Limit value type : PNEC (Sediment, freshwater) ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )  
Exposure route : Soil  
Limit value : 0,981 mg/kg  
Limit value type : PNEC (Sediment, freshwater) ( 2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6 )  
Exposure route : Soil  
Limit value : 3,29 mg/kg  
Limit value type : PNEC (Sediment, marine water) ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )  
Exposure route : Soil  
Limit value : 0,0981 mg/kg



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Limit value type :	PNEC (Sediment, marine water) ( 2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6 )
Exposure route :	Soil
Limit value :	0,329 mg/kg
Limit value type :	PNEC soil ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )
Exposure route :	Soil
Limit value :	0,0903 mg/kg
Limit value type :	PNEC soil ( 2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6 )
Exposure route :	Soil
Limit value :	29 mg/kg
Limit value type :	PNEC soil ( XYLENE ; CAS No. : 1330-20-7 )
Exposure route :	Soil
Limit value :	2,31 mg/kg
Limit value type :	PNEC (Sewage treatment plant) ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )
Exposure route :	Water (Including sewage plant)
Limit value :	35,6 mg/l
Limit value type :	PNEC (Sewage treatment plant) ( XYLENE ; CAS No. : 1330-20-7 )
Exposure route :	Water (Including sewage plant)
Limit value :	6,58 mg/l
Limit value type :	PNEC (Sewage treatment plant) ( 2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6 )
Exposure route :	Water (Including sewage plant)
Limit value :	100 mg/l

## 8.2 Exposure controls

### Appropriate engineering controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL (=Occupational Exposure Limit), suitable respiratory protection must be worn. Observe data available of section 7.

### Personal protection equipment

#### Eye/face protection

Use protection glasses in case of splattering.

#### Skin protection

##### Hand protection

At use as agreed a protective gloves from nitrile rubber with a material thickness 0,38 mm has to be used. Notes of the manufacturer have to be taken into account. Penetration time of the glove material: > = 60 min.

By longer or repeated contact the penetration times can be considerably shorter. The protective gloves should be replaced after the first wear out or a damage of the gloves. Gloves of cotton should be used under the gloves of polychloropren or nitrile rubber. After washing hands replace lost skin fat by fat containing skin creams.

##### Body protection

Using protective clothing. If the product must sprayed, use a disposable protective suit.

#### Respiratory protection

Breathing protection equipment is not required in good ventilated places. A respiratory protection (combination filter A2-P3) is required by inadequate ventilation and by spray application. Do not breathe gas or spray. Recirculated air breathing equipment must be available for emergencies.

### General information

Avoid contact with eyes and skin. Immediately remove all contaminated clothing. Do not eat or drink during work - no smoking. Wash hands before breaks and after work. Ensure a good ventilation in room and working area. Do not breathe gas or spray. Dealing with the product is warned against at oversensitivity of the respiratory tract and the skin (asthma, chronic bronchitis or skin suffering).

### Environmental exposure controls

The product should not reach waters and the ground. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

**Physical state :** Liquid.

**Colour :** conformable to product designation.

#### Odour

Smell of organic solvents.

#### Safety characteristics

<b>Melting point/freezing point :</b>	( 1013 hPa )			not applicable
<b>Initial boiling point and boiling range :</b>	( 1013 hPa )	approx.	120 - 200	°C
<b>Decomposition temperature :</b>	( 1013 hPa )			No data available
<b>Flash point :</b>			23 - 60	°C
<b>Auto-ignition temperature :</b>				No data available
<b>Lower explosion limit :</b>		approx.	0,7	Vol-%
<b>Upper explosion limit :</b>		approx.	9	Vol-%
<b>Vapour pressure :</b>	( 50 °C )	<	100	hPa
<b>Density :</b>	( 20 °C )		1 - 1,6	g/cm <sup>3</sup>
<b>Solvent separation test :</b>	( 20 °C )	<	3	%
<b>Water solubility :</b>	( 20 °C )			Not or little soluble
<b>pH :</b>				No data available
<b>Flow time :</b>	( 20 °C )	>	90	s
<b>Viscosity :</b>	( 20 °C )		150 - 250	mPa*s
<b>Kinematic viscosity:</b>	( 40 °C )	>	20,5	mm <sup>2</sup> /s
<b>VOC-value :</b>		max.	500	g/l

### 9.2 Other information

Other physical and chemical data have not been determined.

The mentioned VOC value refers to the mixture of the product, incl. harder, ready for use.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No dangers connected by a possible reactivity of the product are known to proper handling and storage.

### 10.2 Chemical stability

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

### 10.3 Possibility of hazardous reactions

Vapours can form explosive mixtures with air.

### 10.4 Conditions to avoid

To avoid formation of ignitable vapour and air mixtures ensure good ventilation (inter alia extraction system). Keep away from frost, heat and direct sunlight.

Cleaning cloths saturated with solvent can ignite themselves. Therefore ensure safe disposal of waste.

### 10.5 Incompatible materials

No dangerous reaction known. Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

### 10.6 Hazardous decomposition products

No dangerous decomposition product are known if stored and handled correctly. When exposed to high temperatures or in case of fire hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen, may produced.

## SECTION 11: Toxicological information

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## 11.1 Information on toxicological effects

### Acute toxicity

Acute toxicity:

- Acute oral toxicity: No data available;
- Acute dermal toxicity: No data available;
- Acute inhalation toxicity: No data available.

### Acute oral toxicity

Parameter : LD50 ( HYDROCARBONS, C9, AROMATICS )  
Exposure route : Oral  
Species : Rat  
Effective dose : > 6800 mg/kg  
Parameter : LD50 ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )  
Exposure route : Oral  
Species : Rat  
Effective dose : 10760 mg/kg  
Parameter : LD50 ( 2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6 )  
Exposure route : Oral  
Species : Rat  
Effective dose : 8500 mg/kg  
Parameter : LD50 ( XYLENE ; CAS No. : 1330-20-7 )  
Exposure route : Oral  
Species : Rat  
Effective dose : 4300 mg/kg  
Parameter : LD50 ( ETHYLBENZENE ; CAS No. : 100-41-4 )  
Exposure route : Oral  
Species : Rat  
Effective dose : 3500 mg/kg  
Parameter : LC50 ( REACTION MASS OF BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) SEBACATE AND METHYL(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) SEBACATE ; CAS No. : 1065336-91-5 )  
Exposure route : Oral  
Species : Rat  
Effective dose : > 2000 mg/kg

### Acute dermal toxicity

Parameter : LD50 ( HYDROCARBONS, C9, AROMATICS )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : > 3400 mg/kg  
Parameter : LD50 ( 2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6 )  
Exposure route : Dermal  
Species : Rat  
Effective dose : > 5000 mg/kg  
Parameter : LD50 ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : > 14000 mg/kg  
Parameter : LD50 ( XYLENE ; CAS No. : 1330-20-7 )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : 2000 mg/kg  
Parameter : LD50 ( ETHYLBENZENE ; CAS No. : 100-41-4 )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : 5000 mg/kg  
Parameter : LC50 ( REACTION MASS OF BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) SEBACATE

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AND METHYL(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) SEBACATE ; CAS No. : 1065336-91-5 )

Exposure route : Dermal

Species : Rat

Effective dose : > 2000 mg/kg

### Acute inhalation toxicity

Parameter : LC50 ( HYDROCARBONS, C9, AROMATICS )

Exposure route : Inhalation

Species : Rat

Effective dose : > 10,2 mg/l

Exposure time : 4 h

Parameter : LC50 ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )

Exposure route : Inhalation

Species : Rat

Effective dose : 23,4 mg/kg

Exposure time : 4 h

Parameter : LC50 ( XYLENE ; CAS No. : 1330-20-7 )

Exposure route : Inhalation

Species : Rat

Effective dose : 22 mg/l

Exposure time : 4 h

Parameter : LC50 ( 2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6 )

Exposure route : Inhalation

Species : Rat

Effective dose : 35,7 mg/l

### Corrosion

- Irritant effect:
- On the skin: May cause irritation to the skin.
  - On the eye: May cause eye irritation.
  - Respiratory: May cause irritation to the respiratory tract.

### Respiratory or skin sensitisation

The product contains sensitizing substances, which may produce an allergic reaction (see section 2 and 3).

### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

The product is not classified as human germ cell mutagenic, carcinogenic or human reproductive toxic (CMR effects).

### STOT-single exposure

Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effect such as mucous membrane and respiratory system irritation, kidneys and liver damages, as well as leading the impairment of the central nervous system.

Symptoms and signs include headache: dizziness, fatigue, muscular weakness, drowsiness and in extreme cases loss of consciousness.

The liquid splashed in the eyes may cause irritation and reversible damage.

### STOT-repeated exposure

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

### Aspiration hazard

The product contains substances, which are classified as aspiration toxicity, category 1 (May be fatal if swallowed and enters airways), in accordance to the Regulation (EC) No. 1272/2008 (CLP-Regulation) in their pure form.

The product is not classified as aspiration toxicity, category 1, because of the higher viscosity (> 20,5 mm<sup>2</sup>/s at 40°C).

## 11.4 Other adverse effects

### Other observations

This product is unlikely to harm health, given normal and proper handling and hygienic precautions.

## 11.5 Additional information

The product is classified in toxicological terms on the basis of the results of the calculation procedure outlined within the Regulation (EC) No 1272/2008 (CLP-Regulation), listed in sections 2 and 3.

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At proper dealing and use as agreed the product does not cause any effects bad for health after our experiences and the information submitted to us.

## SECTION 12: Ecological information

### 12.1 Toxicity

Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

#### Aquatic toxicity

##### Acute (short-term) fish toxicity

Parameter :	LC50 ( HYDROCARBONS, C9, AROMATICS )
Species :	Oncorhynchus mykiss (Rainbow trout)
Effective dose :	9,2 mg/l
Exposure time :	96 h
Parameter :	LC50 ( 2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6 )
Species :	Oryzias latipes (Ricefish)
Effective dose :	> 100 mg/l
Exposure time :	96 h
Parameter :	LC50 ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )
Species :	Pimephales promelas (fathead minnow)
Effective dose :	18 mg/l
Exposure time :	96 h
Parameter :	LC50 ( XYLENE ; CAS No. : 1330-20-7 )
Species :	Oncorhynchus mykiss (Rainbow trout)
Effective dose :	2,6 mg/l
Exposure time :	96 h
Parameter :	LC50 ( REACTION MASS OF BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) SEBACATE AND METHYL(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) SEBACATE ; CAS No. : 1065336-91-5 )
Species :	Lepomis macrochirus (Bluegill)
Effective dose :	0,97 mg/l
Exposure time :	96 h
Parameter :	LC50 ( REACTION MASS OF BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) SEBACATE AND METHYL(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) SEBACATE ; CAS No. : 1065336-91-5 )
Species :	Oncorhynchus mykiss (Rainbow trout)
Effective dose :	7,9 mg/l
Exposure time :	96 h

##### Chronic (long-term) fish toxicity

Parameter :	NOEC ( 2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6 )
Species :	Oryzias latipes (Ricefish)
Effective dose :	47,5 mg/l
Exposure time :	14 D

##### Acute (short-term) toxicity to crustacea

Parameter :	EC50 ( HYDROCARBONS, C9, AROMATICS )
Species :	Daphnia magna (Big water flea)
Effective dose :	3,2 mg/l
Exposure time :	48 h
Parameter :	EC50 ( 2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6 )
Species :	Daphnia magna (Big water flea)
Effective dose :	> 500 mg/l
Exposure time :	48 h
Parameter :	EC50 ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )
Species :	Daphnia magna (Big water flea)
Effective dose :	44 mg/l
Exposure time :	48 h

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Parameter : EC50 ( XYLENE ; CAS No. : 1330-20-7 )  
Species : Daphnia magna (Big water flea)  
Effective dose : 1 - 10 mg/l  
Exposure time : 48 h

Parameter : EC50 ( REACTION MASS OF BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) SEBACATE AND METHYL(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) SEBACATE ; CAS No. : 1065336-91-5 )  
Species : Daphnia magna (Big water flea)  
Effective dose : 20 mg/l  
Exposure time : 24 h

### Chronic (long-term) toxicity to crustacea

Parameter : NOEC ( 2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6 )  
Species : Daphnia magna (Big water flea)  
Effective dose : > 100 mg/l  
Exposure time : 21 D

Parameter : NOEC ( REACTION MASS OF BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) SEBACATE AND METHYL(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) SEBACATE ; CAS No. : 1065336-91-5 )  
Species : Daphnia magna (Big water flea)  
Effective dose : 1 mg/l  
Exposure time : 21 D

### Acute (short-term) toxicity to aquatic algae and cyanobacteria

Parameter : ErC50 ( HYDROCARBONS, C9, AROMATICS )  
Species : Pseudokirchneriella subcapitata  
Effective dose : 2,6 - 2,9 mg/l  
Exposure time : 72 h

Parameter : EC50 ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )  
Species : Desmodesmus subspicatus  
Effective dose : 647,7 mg/l  
Exposure time : 72 h

Parameter : IC50 ( XYLENE ; CAS No. : 1330-20-7 )  
Species : Scenedesmus subspicatus  
Effective dose : 2,2 mg/l

Parameter : ErC50 ( 2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6 )  
Species : Pseudokirchneriella subcapitata  
Effective dose : > 1000 mg/l  
Exposure time : 3 h

Parameter : EL50 ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )  
Species : Desmodesmus subspicatus  
Effective dose : 200 mg/l

Parameter : EC50 ( REACTION MASS OF BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) SEBACATE AND METHYL(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) SEBACATE ; CAS No. : 1065336-91-5 )  
Species : Desmodesmus subspicatus  
Effective dose : 1,68 mg/l  
Exposure time : 72 h

Parameter : EC50 ( REACTION MASS OF BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) SEBACATE AND METHYL(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) SEBACATE ; CAS No. : 1065336-91-5 )  
Species : Daphnia  
Effective dose : 20 mg/l  
Exposure time : 24 h

### Toxicity to microorganisms

Parameter : EC50 ( XYLENE ; CAS No. : 1330-20-7 )  
Species : Bacteria toxicity  
Effective dose : 96 mg/l

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Exposure time : 24 h  
Parameter : EC50 ( 2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6 )  
Species : Mysidopsis bahia  
Effective dose : > 1000 mg/l  
Exposure time : 0,5 h

## Sewage treatment plant

Parameter : EC50 ( REACTION MASS OF BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) SEBACATE AND METHYL(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) SEBACATE ; CAS No. : 1065336-91-5 )  
Inoculum : Municipal  
Effective dose : > 100 mg/l  
Exposure time : 3 h

## 12.2 Persistence and degradability

These are not data available about the potential of the product concerning his persistency and degradability.

### Biodegradation

Parameter : Biodegradation ( 2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6 )  
Inoculum : Biodegradation  
Effective dose : 100 %  
Exposure time : 8 D  
Parameter : Biodegradation ( XYLENE ; CAS No. : 1330-20-7 )  
Inoculum : Biodegradation  
Effective dose : > 60 %  
Exposure time : 28 D  
Parameter : Biodegradation ( 2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6 )  
Inoculum : Biodegradation  
Effective dose : > 90 %  
Exposure time : 28 D  
Parameter : DOC reduction ( REACTION MASS OF BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) SEBACATE AND METHYL(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) SEBACATE ; CAS No. : 1065336-91-5 )  
Inoculum : Degree of elimination  
Evaluation parameter : Aerobic  
Effective dose : 38 %  
Exposure time : 28 D

## 12.3 Bioaccumulative potential

These are not data available about the bio accumulation potential of the product.  
No information about the individual components is available either.

## 12.4 Mobility in soil

These are not datas available about the potential of the product concerning his mobility in the ground.  
A penetrating into soil, waters and sewage system should be prevented.

## 12.5 Results of PBT and vPvB assessment

This product does not contain any relevant substances which were classified as a PBT or vPvB-substance.

## 12.6 Other adverse effects

No information available.

## 12.7 Additional ecotoxicological information

Avoid exposing into ground, waterways and drainage.  
The classification of the product is based on summation of classified components according to the Regulation (EC) No 1272/2008 (CLP-Regulation). See details in sections 2 and 3.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product/Packaging disposal

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## Waste codes/waste designations according to EWC/AVV

### Waste code product

Disposal-definition No. (AVV-Code): 08 01 11\* Paint and varnish waste which contains organic solvents or other dangerous substances.

### Waste code packaging

Disposal-definition No. (AVV-Code):  
15 01 10 \* packings which contain dangerous substances or are polluted by dangerous substances.

## Waste treatment options

### Appropriate disposal / Product

Dispose of contents/container to approved disposal company or local collection according to the local regulations. Do not dispose together with household garbage. Do not empty into waters or drains.

### Appropriate disposal / Package

Only empty packaging can be transferred to recycling. Uncleaned packaging must be disposed of in the same manner as the medium.

## SECTION 14: Transport information

### 14.1 UN number

UN 1263

### 14.2 UN proper shipping name

#### Land transport (ADR/RID)

PAINT

#### Sea transport (IMDG)

PAINT ( HYDROCARBONS, C9, AROMATICS )

#### Air transport (ICAO-TI / IATA-DGR)

PAINT

### 14.3 Transport hazard class(es)

#### Land transport (ADR/RID)

**Class(es) :** 3  
**Classification code :** F1  
**Hazard identification number (Kemler No.) :** 30  
**Tunnel restriction code :** D/E  
**Special provisions :** LQ 5 I · E 1 · ADR : - (<= 5 l ; 2.2.3.1.5 + N)  
**Hazard label(s) :** 3 / N

#### Sea transport (IMDG)

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

#### Air transport (ICAO-TI / IATA-DGR)

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

### 14.4 Packing group

III

### 14.5 Environmental hazards

**Land transport (ADR/RID) :** Yes

**Sea transport (IMDG) :** Yes (P)

**Air transport (ICAO-TI / IATA-DGR) :** Yes

### 14.6 Special precautions for user

None



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

Not relevant because the product in type of delivery does not transport in bulks according to the International Maritime Organization (IMO) instruments.

## 14.8 Additional information

According to the transport regulations the product is labeling with the label 3 and in packages > 5 ltr. with the symbol "Fish and tree".

## SECTION 15: Regulatory information

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

#### EU legislation

##### Other regulations (EU)

##### Directive 2004/42/EC on the limitation of emissions of volatile organic compounds

Product sub-category and VOC limiting values in accordance with appendix II, letter A of the guideline:

Category j, type Lb;

VOC limiting value of the category for 2010: 500 g/l.

This product contains max. 500 g/l VOC.

The mentioned VOC value refers to the mixture of the product ready for use of tribe varnish and harder.

#### National regulations

##### Water hazard class (WGK)

Class : 2 (Obviously hazardous to water) Classification according to AwSV

##### Additional information

The product is not classified as a solid substance according to the criteria of the Penetrometer test (ADR, part 2, section 2.3.4) and also fulfils not the criteria for solid substances according to the TRwS 779 number 2.1.1.

### 15.2 Chemical safety assessment

A chemical safety assessments was not carried out.

## SECTION 16: Other information

### 16.1 Indication of changes

None

### 16.2 Abbreviations and acronyms

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)

ADR: European agreement concerning the international carriage of dangerous goods by road (Accord européen relatif transport des marchandises dangereuses par route)

AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert – Germany) AOX: Adsorbable Organic halogen compounds

ATEmix: Calculated acute toxicity estimate of mixture

BCF: Bio-Concentration Factor

CAS: Chemical Abstract Service

CLP: Classification, Labelling and Packaging

CMR: Substances classified as Carcinogenic, Mutagenic or toxic for Reproduction

CSR: Chemical Safety Report

DNEL: Derived No Effect Level

EC: European Commission

EC50: Effective Concentration 50%

ECHA: European Chemical Agency

EEC: European Economic Community

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

EWC: European Waste Catalogue

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

IATA: International Air Transport Association

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ICAO: International Civil Aviation Organization  
IC50: Inhibition Concentration 50%  
IMDG Code: International Maritime Dangerous Goods Code  
IMO: International Maritime Organization  
LC50: Lethal concentration 50%  
LD50: Lethal Dose 50%  
LOAEL: Lowest Observed Adverse Effect Level  
LOEL: Lowest observable effect level  
MAK: Treshold limit values Germany (Maximale Arbeitsplatzkonzentration - DFG)  
MARPOL: Convention for the Prevention of Marine Pollution from Ships  
MVZ: molar ratio  
n.a.: Not applicable  
n.d.: Not determined  
n.r.: Not relevant  
NLP: No Longer Polymers  
NOAEC: No Observed Adverse Effect Concentration  
NOAEL: No Observed Adverse Effect Level  
NOEC: No Observed Effect Concentration  
NOEL: No Observed Effect Level  
OEL: Occupational Exposure Limit  
PBT: Persistent, bioaccumulative, toxic  
PNEC: Predicted No Effect Concentration  
RCP: Reciprocal calculation procedure  
REACH: Registration, Evaluation and Authorization of Chemical)  
RID: Regulations concerning the international carriage of dangerous goods by rail (Règlement International concernant le transport de marchandises dangereuses par chemin de fer)  
STEL: Short-term Exposure Limit  
SVHC: Substance of Very High Concern  
TLV - TWA: Threshold Limit Value - Time Weighed Average  
VOC: Volatile Organic Compounds  
vPvB: Very persistent, very bioaccumulative.

### 16.3 Key literature references and sources for data

None

### 16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

The evaluation of hazard information of the product was carried out in accordance to Annex I of the REGULATION (EC) No 1272/2008 (CLP Regulation).

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

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
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.
H351i	Suspected of causing cancer if inhaled.
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.
H411	Toxic to aquatic life with long lasting effects.

### 16.6 Training advice

None

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**Trade name :** 2K-PUR-Acryl Silk Matt Enamel 5741  
2K-PUR-Acryl Seidenglanzlack 5741  
**Revision date :** 22.02.2021  
**Print date :** 22.02.2021

**Version (Revision) :** 28.0.0 (27.0.1)

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**16.7 Additional information**

None

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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.

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# Safety Data Sheet

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



**Trade name :** 2K-PUR-Acryl Hardener 5770  
2K-PUR-Acryl Härter 5770

**Revision date :** 27.08.2020

**Print date :** 28.07.2021

**Version (Revision) :** 25.0.0 (24.0.0)

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

### 1.1 Product identifier

2K-PUR-Acryl Hardener 5770  
2K-PUR-Acryl Härter 5770

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

#### Relevant identified uses

##### Products Category [PC]

PC9 - Coatings and paints, fillers, putties, thinners

#### Uses advised against

The 2K-PUR products (2K-PUR-Acryl High Gloss Enamel 5740 incl. 2K-PUR-Acryl Hardener 5770 and 2K-PUR-Acryl Silk Matt Enamel 5741 incl. 2K-PUR-Acryl Hardener 5770) may be used only in industrial and professional applications. A use in Do-it Yourself applications is warning.

The main component of the 2K-PUR-Acryl Hardener 5770 were registered for the splashing and spraying application in accordance with the REACH regulations.

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

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

Brillux GmbH & Co KG  
www.brillux.de

**Street :** Weseler Straße 401

**Postal code/city :** D - 48163 Münster

**Telephone :** +49 (0)251-7188-0

**Telefax :** +49 (0)251-7188-280

#### Information contact :

Electronic mail address of the well-informed person for safety data sheets:sdb@brillux.de

### 1.4 Emergency telephone number

Outside the business hours (9 a.m. to 5 p.m.):

(Giftinformationszentrum-Nord, Göttingen, consultation in german or english language)

Telephone: +49 (0)551-19240.

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

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

Acute Tox. 4 ; H332 - Acute toxicity (inhalative) : Category 4 ; Harmful if inhaled.

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

Skin Irrit. 2 ; H315 - Skin corrosion/irritation : Category 2 ; Causes skin irritation.

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

Skin Sens. 1 ; H317 - Skin sensitisation : Category 1 ; May cause an allergic skin reaction.

STOT SE 3 ; H335 - STOT-single exposure : Category 3 ; May cause respiratory irritation.

STOT RE 2 ; H373 - STOT-repeated exposure : Category 2 ; May cause damage to organs through prolonged or repeated exposure.

### 2.2 Label elements

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

##### Hazard pictograms

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Flame (GHS02) · Health hazard (GHS08) · Exclamation mark (GHS07)

## Signal word

Warning

## Hazard components for labelling

HEXAMETHYLENE-DI-ISOCYANATE HOMOPOLYMER ; CAS No. : 28182-81-2

XYLENE ; CAS No. : 1330-20-7

ETHYLBENZENE ; CAS No. : 100-41-4

## Hazard statements

- H226 Flammable liquid and vapour.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H332 Harmful if inhaled.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.

## Precautionary statements

- P260 Do not breathe vapours.  
P501 Dispose of contents/container to approved disposal company or local collection.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P312 Call a POISON CENTER or a doctor if you feel unwell.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

## Special rules for supplemental label elements for certain mixtures

- EUH204 Contains isocyanates. May produce an allergic reaction.  
EUH208 Contains HEXAMETHYLENE-DI-ISOCYANATE. May produce an allergic reaction.

## 2.3 Other hazards

### Adverse environmental effects

The product does not contain any substances, which fulfil the criteria for PBT or vPvB in accordance with the Annex XIII of the Regulation (EC) No 1907/2006 (REACH-Regulation).

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Description

Hardener based on aliphatic Polyisocyanates, aromatic hydrocarbons and ester.

#### Hazardous ingredients

HEXAMETHYLENE-DI-ISOCYANATE HOMOPOLYMER ; CAS No. : 28182-81-2

Weight fraction :  $\geq 70 - < 80$  %

Classification 1272/2008 [CLP] : Acute Tox. 4 ; H332 Skin Sens. 1 ; H317 STOT SE 3 ; H335

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XYLENE ; REACH No. : 01-2119488216-32 ; EC No. : 215-535-7; CAS No. : 1330-20-7

Weight fraction :  $\geq 10 - < 12,5 \%$   
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Asp. Tox. 1 ; H304 STOT RE 2 ; H373 Acute Tox. 4 ;  
H312 Acute Tox. 4 ; H332 Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319 STOT SE 3 ;  
H335

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

Weight fraction :  $\geq 1 - < 3 \%$   
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 STOT SE 3 ; H336  
Substance with a common (EC) occupational exposure limit value.

ETHYLBENZENE ; EC No. : 202-849-4; CAS No. : 100-41-4

Weight fraction :  $\geq 1 - < 3 \%$   
Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Asp. Tox. 1 ; H304 STOT RE 2 ; H373 Acute Tox. 4 ; H332

HEXAMETHYLENE-DI-ISOCYANATE ; REACH No. : 01-2119457571-37 ; EC No. : 212-485-8; CAS No. : 822-06-0

Weight fraction :  $\geq 0,1 - < 0,5 \%$   
Classification 1272/2008 [CLP] : Acute Tox. 3 ; H331 Resp. Sens. 1 ; H334 Skin Irrit. 2 ; H315 Skin Sens. 1 ;  
H317 Eye Irrit. 2 ; H319 STOT SE 3 ; H335

#### Additional information

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

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

In all cases of doubt, or when symptoms persist, seek medical attention. Immediately remove all contaminated clothing. In case of unconsciousness: lay on side - call a doctor. Never give anything by mouth to an unconscious person. If medical advice is needed, have product container or label at hand.

#### Following inhalation

When symptoms persists, take the casualty into the fresh air and keep warm. Irregular breathing/no breathing: artificial respiration. Call a doctor and tell him the exactly substance.

#### In case of skin contact

Take off immediately all contaminated clothes. Wash away with soap and water and rinse. Do NOT use solvents or thinners. If skin irritation continues, consult a doctor.

#### After eye contact

Remove contact lenses, keep eyelids open. Rinse open eye immediately with plenty of running water. Seek medical advice if complaint continues.

#### After ingestion

Drink water in small draught. Keep at rest. Do not induce vomiting. When swallowed immediately consult and show packing or label to physician.

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

Potential symptoms: Headache, dizziness, giddiness, skin irritation, eye irritation and irritation to respiratory tract are possible. Allergic symptoms.

### 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 media

In case of fire: Use alcohol resistant foam, CO<sub>2</sub>, powders or water spray for extinction.

#### Unsuitable extinguishing media

In case of fire: Do not use waterjet for extinction.

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## 5.2 Special hazards arising from the substance or mixture

### Hazardous combustion products

Formation of toxic gases is possible during heating or in case of fire: Carbon monoxide (CO.), nitrogen oxide (NOx), vapour of isocyanate and traces of hydrogen cyanide (HCN). Steams form an explosive mixture together with air.

## 5.3 Advice for firefighters

### Special protective equipment for firefighters

At a fire caused by the product a breathing apparatus with an independent source of air is to have ready and to use if necessary for the firefighting. Personnel should wear protective clothings.

## 5.4 Additional information

Cool endangered containers with water in case of fire. Do not allow run-off from fire-fighting to enter drains or water courses.

## SECTION 6: Accidental release measures

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

Refer to protective measures listed in sections 7 and 8. Keep away from ignition sources on account of the organic solvent content and air room well. Do not inhale vapours. Avoid contact with eyes and skin. Noticing wind direction in the outside area. Holding persons with the back in the outside area against the wind and remote from the danger spot. Fencing off contaminated area with labelling and preventing access of unauthorized persons. Putting leaking containers so to prevent phasedown, that the leak is above.

### 6.2 Environmental precautions

Do not empty into drains. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations. Holding polluted washing water back and disposing of duly.

### 6.3 Methods and material for containment and cleaning up

#### For cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). The areas concerned cleaning with a customary water based cleaning agent, not using organic solvents if possible.

When cleaning avoid contact with quarrelsome substances, see section 10 of the safety data sheet. Using a non-sparking equipment when cleaning.

### 6.4 Reference to other sections

See Section 7 for information on safe handling.

You find information about the safety equipment of persons in the section 8, information about the refuse disposal in section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Protective measures

Ensure a good ventilation in room and working area. Prevent the creation of inflammable or explosive concentrations of vapour in air and avoid vapour concentrations higher than the OEL (=Occupational Exposure Limit). Only use the material in places where open light, fire and other flammable sources can be kept away. For personal protection see Section 8. Avoid contact with skin and eyes. Read label before use.

#### Measures to prevent fire

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

Avoid concentrations which form ignitable or explosive vapour and air mixtures. Likewise, avoid any concentration of vapour above the MAC-valve. Keep away from ignition sources - No smoking. Ground/bond container and receiving equipment. Use explosion-proof pipes, electrical, ventilating and lighting equipment. Use only non-sparking tools.

Take precautionary measures against static discharge.

#### Measures to prevent aerosol and dust generation

Do not breathe gas or spray.

#### Advices on general occupational hygiene

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While working do not eat, drink or smoke. Immediately remove all contaminated clothing. Wash hands and face before breaks and after work and take a shower if necessary.

## 7.2 Conditions for safe storage, including any incompatibilities

### Requirements for storage rooms and vessels

Electrical equipment should be protected to the appropriate standard. Floors should be of the conducting type. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Never use pressure to empty: container is not a pressure vessel. No smoking. Prevent unauthorized access. Do not store the product in lounge room. Keep only in the original container. Keep out of the reach of children. Store in a well-ventilated place. Keep cool.

### Hints on joint storage

Keep away from oxidizing agents, from strongly alkaline and strongly acid materials. Store away from foodstuffs. Avoid contact / reaction with moisture or water: CO<sub>2</sub> formation in closed containers causes pressure.

**Storage class (TRGS 510) :** 3

### Further information on storage conditions

Keep container tightly sealed. Always keep in containers of same material as the original one. See also instructions on the label. Avoid heating and direct sunlight. Store at 5°-35°C. Containers should be kept dry and sealed. Suitable packing: Coated steel.

## 7.3 Specific end use(s)

For using the product observe the information in the Technical data sheet of the product.

### Industrial sector specific solutions

**GISCODE :** Product code in accordance to GISBAU (hazardous materials information system of the German professional associations of the building and construction industry): PU 50.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limit values

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

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

Limit value : 50 ppm / 270 mg/m<sup>3</sup>

Peak limitation : 1(I)

Remark : Y

Version : 29.03.2019

XYLENE ; CAS No. : 1330-20-7

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

Limit value : 100 ppm / 440 mg/m<sup>3</sup>

Peak limitation : 4

Version : 01.10.1993

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

Parameter : Group limit for the calculation of the occupational exposure limit for hydrocarbon mixtures (see section 2.9 of Technical Rule 900).

Limit value : 200 mg/m<sup>3</sup>

Version : 01.10.1993

ETHYLBENZENE ; CAS No. : 100-41-4

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

Limit value : 20 ppm / 88 mg/m<sup>3</sup>

Peak limitation : 2(II)

Remark : H, Y, DFG

Version : 02.07.2009

HEXAMETHYLENE-DI-ISOCYANATE ; CAS No. : 822-06-0

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

Limit value : 0,005 ppm / 0,035 mg/m<sup>3</sup>

Peak limitation : 1/=2=(I)



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Remark : Sa  
Version : 29.03.2019

## Remark

Taking into account the details mentioned in the TRGS 900 for the supervision of AGW.

## Biological limit values

XYLENE ; CAS No. : 1330-20-7

Limit value type (country of origin) : TRGS 903 ( D )  
Parameter : Methylhippuric acid / Urine (U) / End of exposure or end of shift  
Limit value : 2000 mg/l  
Version : 01.10.1993

ETHYLBENZENE ; CAS No. : 100-41-4

Limit value type (country of origin) : TRGS 903 ( D )  
Parameter : Mandelic acid + Phenylglyoxyl acid / Urine (U) / End of exposure or end of shift  
Limit value : 250 mg/g Kr  
Version : 31.03.2004

HEXAMETHYLENE-DI-ISOCYANATE ; CAS No. : 822-06-0

Limit value type (country of origin) : TRGS 903 ( D )  
Parameter : hexamethylenediamine / Urine (U) / End of exposure or end of shift  
Limit value : 0,15 mg/g Kr  
Version : 29.03.2019

## DNEL-/PNEC-values

### DNEL/DMEL

Limit value type : DNEL/DMEL (Consumer) ( XYLENE ; CAS No. : 1330-20-7 )  
Exposure route : Inhalation  
Exposure frequency : Short-term  
Limit value : 174 mg/m<sup>3</sup>  
Limit value type : DNEL/DMEL (Consumer) ( XYLENE ; CAS No. : 1330-20-7 )  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 14,8 mg/m<sup>3</sup>  
Limit value type : DNEL/DMEL (Consumer) ( XYLENE ; CAS No. : 1330-20-7 )  
Exposure route : Oral  
Exposure frequency : Long-term  
Limit value : 1,6 mg/kg  
Safety factor : 1 D  
Limit value type : DNEL/DMEL (Consumer) ( XYLENE ; CAS No. : 1330-20-7 )  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 108 mg/kg  
Safety factor : 1 D  
Limit value type : DNEL/DMEL (Professional) ( XYLENE ; CAS No. : 1330-20-7 )  
Exposure route : Inhalation  
Exposure frequency : Short-term  
Limit value : 289 mg/m<sup>3</sup>  
Limit value type : DNEL/DMEL (Professional) ( XYLENE ; CAS No. : 1330-20-7 )  
Exposure route : Dermal  
Exposure frequency : Short-term  
Limit value : 174 mg/m<sup>3</sup>  
Limit value type : DNEL/DMEL (Professional) ( XYLENE ; CAS No. : 1330-20-7 )  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 77 mg/m<sup>3</sup>  
Limit value type : DNEL/DMEL (Consumer) ( 2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6 )

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Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 54,8 mg/kg  
Limit value type : DNEL/DMEL (Consumer) ( 2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6 )

Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 33 mg/m<sup>3</sup>  
Limit value type : DNEL/DMEL (Consumer) ( 2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6 )

Exposure route : Oral  
Exposure frequency : Long-term  
Limit value : 1,67 mg/kg  
Limit value type : DNEL/DMEL (Industrial) ( 2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6 )

Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 275 mg/m<sup>3</sup>  
Limit value type : DNEL/DMEL (Industrial) ( ETHYLBENZENE ; CAS No. : 100-41-4 )

Exposure route : Inhalation  
Exposure frequency : Short-term  
Limit value : 289 mg/m<sup>3</sup>  
Limit value type : DNEL/DMEL (Industrial) ( 2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6 )

Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 153,5 mg/kg  
Limit value type : DNEL/DMEL (Industrial) ( ETHYLBENZENE ; CAS No. : 100-41-4 )

Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 77 mg/m<sup>3</sup>  
Limit value type : DNEL/DMEL (Industrial) ( ETHYLBENZENE ; CAS No. : 100-41-4 )

Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 180 mg/kg  
Limit value type : DNEL/DMEL (Industrial) ( HEXAMETHYLENE-DI-ISOCYANATE ; CAS No. : 822-06-0 )

Exposure route : Dermal  
Exposure frequency : Short-term  
Limit value type : DNEL/DMEL (Industrial) ( HEXAMETHYLENE-DI-ISOCYANATE ; CAS No. : 822-06-0 )

Exposure route : Inhalation  
Exposure frequency : Short-term  
Limit value : 0,07 mg/m<sup>3</sup>  
Limit value type : DNEL/DMEL (Industrial) ( HEXAMETHYLENE-DI-ISOCYANATE ; CAS No. : 822-06-0 )

Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 0,035 mg/m<sup>3</sup>

**PNEC**

Limit value type : PNEC (Aquatic, freshwater) ( XYLENE ; CAS No. : 1330-20-7 )  
Exposure route : Water (Including sewage plant)  
Limit value : 0,327 mg/l

Limit value type : PNEC (Sediment, freshwater) ( XYLENE ; CAS No. : 1330-20-7 )  
Exposure route : Water (Including sewage plant)  
Limit value : 12,46 mg/kg

Limit value type : PNEC soil ( XYLENE ; CAS No. : 1330-20-7 )  
Exposure route : Soil  
Limit value : 2,31 mg/kg

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Limit value type :	PNEC (Sewage treatment plant) ( XYLENE ; CAS No. : 1330-20-7 )
Exposure route :	Water (Including sewage plant)
Limit value :	6,58 mg/l
Limit value type :	PNEC (Aquatic, freshwater) ( 2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6 )
Exposure route :	Water (Including sewage plant)
Limit value :	0,635 mg/l
Limit value type :	PNEC (Aquatic, marine water) ( 2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6 )
Exposure route :	Water (Including sewage plant)
Limit value :	0,0635 mg/l
Limit value type :	PNEC (Sediment, freshwater) ( 2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6 )
Exposure route :	Soil
Limit value :	3,29 mg/kg
Limit value type :	PNEC (Sediment, marine water) ( 2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6 )
Exposure route :	Soil
Limit value :	0,329 mg/kg
Limit value type :	PNEC soil ( 2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6 )
Exposure route :	Soil
Limit value :	29 mg/kg
Limit value type :	PNEC (Sewage treatment plant) ( 2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6 )
Exposure route :	Water (Including sewage plant)
Limit value :	100 mg/l

## 8.2 Exposure controls

### Appropriate engineering controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL (=Occupational Exposure Limit), suitable respiratory protection must be worn. Observe data available of section 7. Making sure that lights and electrical equipment do not represent any igniting sources.

### Personal protection equipment

#### Eye/face protection

Use protection glasses in case of spattering. Having eye rinsing bottle at work ready.

#### Skin protection

##### Hand protection

At use as agreed a protective gloves from nitrile rubber with a material thickness 0,38 mm has to be used. Notes of the manufacturer have to be taken into account. Penetration time of the glove material: > = 60 min.

By longer or repeated contact the penetration times can be considerably shorter. The protective gloves should be replaced after the first wear out or a damage of the gloves. Gloves of cotton should be used under the gloves of polychloropren or nitrile rubber. After washing hands replace lost skin fat by fat containing skin creams.

##### Body protection

Using protective clothing. If the product must sprayed, use a disposable protective suit.

#### Respiratory protection

Breathing protection equipment is not required in good ventilated places. A respiratory protection (combination filter A2-P3) is required by inadequate ventilation and by spray application. Do not breathe gas or spray.

### General information

Avoid contact with eyes and skin. Immediately remove all contaminated clothing. Do not eat or drink during work - no smoking. Wash hands before breaks and after work. Ensure a good ventilation in room and working area. Do not breathe gas or spray. Dealing with the product is warned against at oversensitivity of the respiratory tract and the skin (asthma, chronic bronchitis or skin suffering).

### Environmental exposure controls

The product should not reach waters and the ground. If the product contaminates lakes, rivers or sewages, inform

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appropriate authorities in accordance with local regulations.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

**Physical state :** Liquid.

**Colour :** conformable to product designation.

#### Odour

Like aromatic hydrocarbons.

#### Safety characteristics

<b>Melting point/freezing point :</b>	( 1013 hPa )		No data available
<b>Initial boiling point and boiling range :</b>	( 1013 hPa )		145 °C
<b>Flash point :</b>			38 °C
<b>Auto-ignition temperature :</b>			460 °C
<b>Lower explosion limit :</b>			1,5 Vol-%
<b>Upper explosion limit :</b>			7,5 Vol-%
<b>Vapour pressure :</b>	( 50 °C )		No data available
<b>Density :</b>	( 20 °C )	approx.	1,07 g/cm <sup>3</sup>
<b>Solvent separation test :</b>	( 20 °C )	<	3 %
<b>Water solubility :</b>	( 20 °C )		not applicable
<b>Viscosity :</b>	( 20 °C )		225 mPa*s
<b>VOC-value :</b>		max.	500 g/l

### 9.2 Other information

Other physical and chemical data have not been determined.

The mentioned VOC value refers to the mixture of the product, incl. harder, ready for use.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No dangers connected by a possible reactivity of the product are known to proper handling and storage.

### 10.2 Chemical stability

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

### 10.3 Possibility of hazardous reactions

Vapours can form explosive mixtures with air.

### 10.4 Conditions to avoid

To avoid formation of ignitable vapour and air mixtures ensure good ventilation (inter alia extraction system). Keep away from frost, heat and direct sunlight.

Cleaning cloths saturated with solvent can ignite themselves. Therefore ensure safe disposal of waste.

### 10.5 Incompatible materials

No dangerous reaction known. Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

### 10.6 Hazardous decomposition products

No dangerous decomposition product are known if stored and handled correctly. Formation of toxic gases is possible during heating or in case of fire: Carbon monoxide (CO.), nitrogen oxide (NOx), vapour of isocyanate and traces of hydrogen cyanide (HCN).

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

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## Acute toxicity:

- Acute oral toxicity: No data available;
- Acute dermal toxicity: No data available;
- Acute inhalation toxicity: No data available.

## Acute oral toxicity

Parameter : LD50 ( HEXAMETHYLENE-DI-ISOCYANATE HOMOPOLYMER ; CAS No. : 28182-81-2 )  
Exposure route : Oral  
Species : Rat  
Effective dose : > 5000 mg/kg  
Parameter : LD50 ( XYLENE ; CAS No. : 1330-20-7 )  
Exposure route : Oral  
Species : Rat  
Effective dose : 4300 mg/kg  
Parameter : LD50 ( ETHYLBENZENE ; CAS No. : 100-41-4 )  
Exposure route : Oral  
Species : Rat  
Effective dose : 3500 mg/kg  
Parameter : LD50 ( 2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6 )  
Exposure route : Oral  
Species : Rat  
Effective dose : 8500 mg/kg  
Parameter : LD50 ( HEXAMETHYLENE-DI-ISOCYANATE ; CAS No. : 822-06-0 )  
Exposure route : Oral  
Species : Rat  
Effective dose : 710 mg/kg

## Acute dermal toxicity

Parameter : LD50 ( HEXAMETHYLENE-DI-ISOCYANATE HOMOPOLYMER ; CAS No. : 28182-81-2 )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : > 2000 mg/kg  
Parameter : LD50 ( XYLENE ; CAS No. : 1330-20-7 )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : 2000 mg/kg  
Parameter : LD50 ( 2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6 )  
Exposure route : Dermal  
Species : Rat  
Effective dose : > 5000 mg/kg  
Parameter : LD50 ( ETHYLBENZENE ; CAS No. : 100-41-4 )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : 5000 mg/kg  
Parameter : LD50 ( HEXAMETHYLENE-DI-ISOCYANATE ; CAS No. : 822-06-0 )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : 570 mg/kg

## Acute inhalation toxicity

Parameter : LC50 ( HEXAMETHYLENE-DI-ISOCYANATE HOMOPOLYMER ; CAS No. : 28182-81-2 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : 0,554 mg/l  
Exposure time : 4 h  
Parameter : LC50 ( XYLENE ; CAS No. : 1330-20-7 )  
Exposure route : Inhalation  
Species : Rat

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Effective dose : 22 mg/l  
Exposure time : 4 h  
Parameter : LC50 ( 2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : 35,7 mg/l  
Parameter : LC50 ( HEXAMETHYLENE-DI-ISOCYANATE ; CAS No. : 822-06-0 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : 0,124 mg/l  
Exposure time : 4 h  
Parameter : LC50 ( HEXAMETHYLENE-DI-ISOCYANATE ; CAS No. : 822-06-0 )  
Exposure route : Inhalation  
Species : Mouse  
Effective dose : 1,57 mg/l

## Corrosion

Irritation:

- Skin contact: Irritating to skin and mucous membranes.
- Eye contact: Causes serious eye irritation.

## Respiratory or skin sensitisation

The product is labeled as skin and respiratory sensitizing.

## CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

The product is not classified as human germ cell mutagenic, carcinogenic or human reproductive toxic (CMR effects).

## STOT-single exposure

Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effect such as mucous membrane and respiratory system irritation, kidneys and liver damages, as well as leading the impairment of the central nervous system.

Symptoms and signs include headache: dizziness, fatigue, muscular weakness, drowsiness and in extreme cases loss of consciousness.

The liquid splashed in the eyes may cause irritation and reversible damage.

## STOT-repeated exposure

May causes damage to the organs through prolonged or repeated exposure.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

## Aspiration hazard

The product contains substances, which are classified as aspiration toxicity, category 1, in accordance to the Regulation (EC) No. 1272/2008 (CLP-Regulation) in their pure form.

The product is not classified as aspiration toxicity, category 1, because of the higher viscosity (> 20,5 mm<sup>2</sup>/s at 40°C) and the used concentration of the substances.

## 11.4 Other adverse effects

### Other observations

This product is unlikely to harm health, given normal and proper handling and hygienic precautions.

## 11.5 Additional information

The product is classified in toxicological terms on the basis of the results of the calculation procedure outlined within the Regulation (EC) No 1272/2008 (CLP-Regulation), listed in sections 2 and 3.

At proper dealing and use as agreed the product does not cause any effects bad for health after our experiences and the information submitted to us.

## SECTION 12: Ecological information

### 12.1 Toxicity

Acute or chronic damages to water organisms by the product in the aquatic environment are not expected.

#### Aquatic toxicity

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#### Acute (short-term) fish toxicity

Parameter : LC50 ( HEXAMETHYLENE-DI-ISOCYANATE HOMOPOLYMER ; CAS No. : 28182-81-2 )  
Species : Brachydanio rerio (zebra-fish)  
Effective dose : > 100 mg/l  
Exposure time : 96 h  
Parameter : LC50 ( XYLENE ; CAS No. : 1330-20-7 )  
Species : Oncorhynchus mykiss (Rainbow trout)  
Effective dose : 2,6 mg/l  
Exposure time : 96 h  
Parameter : LC50 ( 2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6 )  
Species : Oryzias latipes (Ricefish)  
Effective dose : > 100 mg/l  
Exposure time : 96 h  
Parameter : LC50 ( HEXAMETHYLENE-DI-ISOCYANATE ; CAS No. : 822-06-0 )  
Species : Brachydanio rerio (zebra-fish)  
Effective dose : 22 mg/l  
Exposure time : 96 h

#### Chronic (long-term) fish toxicity

Parameter : NOEC ( 2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6 )  
Species : Oryzias latipes (Ricefish)  
Effective dose : 47,5 mg/l  
Exposure time : 14 D

#### Acute (short-term) toxicity to crustacea

Parameter : EC50 ( HEXAMETHYLENE-DI-ISOCYANATE HOMOPOLYMER ; CAS No. : 28182-81-2 )  
Species : Daphnia magna (Big water flea)  
Effective dose : > 100 mg/l  
Exposure time : 48 h  
Parameter : EC50 ( XYLENE ; CAS No. : 1330-20-7 )  
Species : Daphnia magna (Big water flea)  
Effective dose : 1 - 10 mg/l  
Exposure time : 48 h  
Parameter : EC50 ( 2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6 )  
Species : Daphnia magna (Big water flea)  
Effective dose : > 500 mg/l  
Exposure time : 48 h

#### Chronic (long-term) toxicity to crustacea

Parameter : NOEC ( 2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6 )  
Species : Daphnia magna (Big water flea)  
Effective dose : > 100 mg/l  
Exposure time : 21 D

#### Acute (short-term) toxicity to aquatic algae and cyanobacteria

Parameter : ErC50 ( HEXAMETHYLENE-DI-ISOCYANATE HOMOPOLYMER ; CAS No. : 28182-81-2 )  
Species : Scenedesmus subspicatus  
Effective dose : > 100 mg/l  
Exposure time : 72 h  
Parameter : IC50 ( XYLENE ; CAS No. : 1330-20-7 )  
Species : Scenedesmus subspicatus  
Effective dose : 2,2 mg/l  
Parameter : ErC50 ( 2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6 )  
Species : Pseudokirchneriella subcapitata  
Effective dose : > 1000 mg/l  
Exposure time : 3 h

#### Toxicity to microorganisms

Parameter : EC50 ( HEXAMETHYLENE-DI-ISOCYANATE HOMOPOLYMER ; CAS No. : 28182-81-2 )  
Species : Mysisopsis bahia

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Effective dose : > 100 mg/l  
Exposure time : 3 h  
Parameter : EC50 ( XYLENE ; CAS No. : 1330-20-7 )  
Species : Bacteria toxicity  
Effective dose : 96 mg/l  
Exposure time : 24 h  
Parameter : EC50 ( 2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6 )  
Species : Mysidopsis bahia  
Effective dose : > 1000 mg/l  
Exposure time : 0,5 h

## 12.2 Persistence and degradability

These are not data available about the potential of the product concerning his persistency and degradability.

### Biodegradation

Parameter : Biodegradation ( HEXAMETHYLENE-DI-ISOCYANATE HOMOPOLYMER ; CAS No. : 28182-81-2 )  
Inoculum : Biodegradation  
Effective dose : 1 %  
Exposure time : 28 D  
Parameter : Biodegradation ( XYLENE ; CAS No. : 1330-20-7 )  
Inoculum : Biodegradation  
Effective dose : > 60 %  
Exposure time : 28 D  
Parameter : Biodegradation ( 2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6 )  
Inoculum : Biodegradation  
Effective dose : 100 %  
Exposure time : 8 D  
Parameter : Biodegradation ( 2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6 )  
Inoculum : Biodegradation  
Effective dose : > 90 %  
Exposure time : 28 D

## 12.3 Bioaccumulative potential

These are not data available about the bio accumulation potential of the product.  
No information about the individual components is available either.

## 12.4 Mobility in soil

These are not datas available about the potential of the product concerning his mobility in the ground.  
A penetrating into soil, waters and sewage system should be prevented.

## 12.5 Results of PBT and vPvB assessment

This product does not contain any relevant substances which were classified as a PBT or vPvB-substance.

## 12.6 Other adverse effects

No information available.

## 12.7 Additional ecotoxicological information

Avoid exposing into ground, waterways and drainage.  
The classification of the product is based on summation of classified components according to the Regulation (EC) No 1272/2008 (CLP-Regulation). See details in sections 2 and 3.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product/Packaging disposal

**Waste codes/waste designations according to EWC/AVV**

#### Waste code product

Disposal-definition No. (AVV-Code): 08 01 11\* Paint and varnish waste which contains organic solvents or other dangerous substances.



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## Waste code packaging

Disposal-definition No. (AVV-Code):  
15 01 10 \* packings which contain dangerous substances or are polluted by dangerous substances.

## Waste treatment options

### Appropriate disposal / Product

Dispose of contents/container to approved disposal company or local collection according to the local regulations.  
Do not dispose together with household garbage. Do not empty into waters or drains.

### Appropriate disposal / Package

Only empty packaging can be transferred to recycling. Uncleaned packaging must be disposed of in the same manner as the medium.

## SECTION 14: Transport information

### 14.1 UN number

UN 1866

### 14.2 UN proper shipping name

#### Land transport (ADR/RID)

RESIN SOLUTION

#### Sea transport (IMDG)

RESIN SOLUTION

#### Air transport (ICAO-TI / IATA-DGR)

RESIN SOLUTION

### 14.3 Transport hazard class(es)

#### Land transport (ADR/RID)

**Class(es) :** 3  
**Classification code :** F1  
**Hazard identification number (Kemler No.) :** 30  
**Tunnel restriction code :** D/E  
**Special provisions :** 640H · LQ 5 I · E 1  
**Hazard label(s) :** 3

#### Sea transport (IMDG)

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

#### Air transport (ICAO-TI / IATA-DGR)

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

### 14.4 Packing group

III

### 14.5 Environmental hazards

**Land transport (ADR/RID) :** No

**Sea transport (IMDG) :** No

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

### 14.6 Special precautions for user

None

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

Not relevant because the product in type of delivery does not transport in bulks according to the International Maritime Organization (IMO) instruments.

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## SECTION 15: Regulatory information

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

#### EU legislation

##### Other regulations (EU)

##### Directive 2004/42/EC on the limitation of emissions of volatile organic compounds

Product sub-category and VOC limiting values in accordance with appendix II, letter A of the guideline:

Category j, type Lb;

VOC limiting value of the category for 2010: 500 g/l.

This product contains max. 500 g/l VOC.

The mentioned VOC value refers to the mixture of the product ready for use of tribe varnish and harder.

#### National regulations

##### Technische Anleitung Luft (TA-Luft)

Weight fraction (Number 5.2.5. I) : 0,1 - 0,5 %

##### Water hazard class (WGK)

Class : 2 (Obviously hazardous to water) Classification according to AwSV

##### Additional information

The product is not classified as a solid substance according to the criteria of the Penetrometer test (ADR, part 2, section 2.3.4) and also fulfils not the criteria for solid substances according to the TRwS 779 number 2.1.1.

### 15.2 Chemical safety assessment

A chemical safety assessments was not carried out.

## SECTION 16: Other information

### 16.1 Indication of changes

None

### 16.2 Abbreviations and acronyms

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)

ADR: European agreement concerning the international carriage of dangerous goods by road (Accord européen relatif transport des marchandises dangereuses par route)

AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert – Germany) AOX: Adsorbable Organic halogen compounds

ATEmix: Calculated acute toxicity estimate of mixture

BCF: Bio-Concentration Factor

CAS: Chemical Abstract Service

CLP: Classification, Labelling and Packaging

CMR: Substances classified as Carcinogenic, Mutagenic or toxic for Reproduction

CSR: Chemical Safety Report

DNEL: Derived No Effect Level

EC: European Commission

EC50: Effective Concentration 50%

ECHA: European Chemical Agency

EEC: European Economic Community

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

EWC: European Waste Catalogue

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

IC50: Inhibition Concentration 50%

IMDG Code: International Maritime Dangerous Goods Code

IMO: International Maritime Organization

LC50: Lethal concentration 50%

LD50: Lethal Dose 50%

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LOAEL: Lowest Observed Adverse Effect Level  
LOEL: Lowest observable effect level  
MAK: Treshold limit values Germany (Maximale Arbeitsplatzkonzentration - DFG)  
MARPOL: Convention for the Prevention of Marine Pollution from Ships  
MVZ: molar ratio  
n.a.: Not applicable  
n.d.: Not determined  
n.r.: Not relevant  
NLP: No Longer Polymers  
NOAEC: No Observed Adverse Effect Concentration  
NOAEL: No Observed Adverse Effect Level  
NOEC: No Observed Effect Concentration  
NOEL: No Observed Effect Level  
OEL: Occupational Exposure Limit  
PBT: Persistent, bioaccumulative, toxic  
PNEC: Predicted No Effect Concentration  
RCP: Reciprocal calculation procedure  
REACH: Registration, Evaluation and Authorization of Chemical)  
RID: Regulations concerning the international carriage of dangerous goods by rail (Règlement International concernant le transport de marchandises dangereuses par chemin de fer)  
STEL: Short-term Exposure Limit  
SVHC: Substance of Very High Concern  
TLV - TWA: Threshold Limit Value - Time Weighed Average  
VOC: Volatile Organic Compounds  
vPvB: Very persistent, very bioaccumulative.

### 16.3 Key literature references and sources for data

None

### 16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

The evaluation of hazard information of the product was carried out in accordance to Annex I of the REGULATION (EC) No 1272/2008 (CLP Regulation).

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

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
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.

### 16.6 Training advice

None

### 16.7 Additional information

None

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

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