



Harmony in  
Chemistry

## Safety Data Sheet

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

**Trade name :** Loesin 120 (061060330000-0201)  
Nitro thinner  
**Revision date :** 23.06.2016  
**Print date :** 27.04.2017

**Version (Revision) :** 24.0.0 (23.0.0)

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

#### 1.1 Product identifier

Loesin 120  
Nitro thinner

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

**Relevant identified uses**

Coatings and paints, thinners, paint removers  
Solvent

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

**Supplier :** Chemische Werke Kluthé  
Werk Oberhausen  
**Street :** Feldstraße 55  
**Postal code/city :** D 46149 Oberhausen  
**Telephone :** +49208 / 9948-166  
**Telefax :** +49208 / 9948-151  
**Information contact :** sds.ob@kluthe.com

#### 1.4 Emergency telephone number

+49177 / 2144737 (24 h)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

Aquatic Chronic 3 ; H412 - Hazardous to the aquatic environment : Chronic 3 ; Harmful to aquatic life with long lasting effects.

Asp. Tox. 1 ; H304 - Aspiration hazard : Category 1 ; May be fatal if swallowed and enters airways.

Eye Dam. 1 ; H318 - Serious eye damage/eye irritation : Category 1 ; Causes serious eye damage.

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

Flam. Liq. 2 ; H225 - Flammable liquids : Category 2 ; Highly 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) · Health hazard (GHS08) · Corrosion (GHS05) · Exclamation mark (GHS07)

###### Signal word

Danger

###### Hazard components for labelling

HYDROCARBONS, C9, AROMATES ; EC No. : 918-668-5



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BUTAN-1-OL ; INDEX No. : 603-004-00-6  
2-METHYLPROPAN-1-OL ; INDEX No. : 603-108-00-1  
ETHYL LACTATE ; INDEX No. : 607-129-00-7

### Hazard statements

H225 Highly flammable liquid and vapour.  
H304 May be fatal if swallowed and enters airways.  
H318 Causes serious eye damage.  
H315 Causes skin irritation.  
H335 May cause respiratory irritation.  
H336 May cause drowsiness or dizziness.  
H412 Harmful to aquatic life with long lasting effects.

### Precautionary statements

P102 Keep out of reach of children.  
P101 If medical advice is needed, have product container or label at hand.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P405 Store locked up.  
P501 Dispose of contents/container according to local regulations

### Supplemental Hazard information (EU)

EUH066 Repeated exposure may cause skin dryness or cracking.

### 2.3 Other hazards

None

## SECTION 3: Composition/information on ingredients

ORGANIC SOLVENTS

### 3.2 Mixtures

#### Hazardous ingredients

1-METHOXY-2-PROPANOL ; REACH registration No. : 01-2119457435-35 ; EC No. : 203-539-1 ; CAS No. : 107-98-2

Weight fraction :  $\geq 10 - < 20$  %  
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 STOT SE 3 ; H336

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

Weight fraction :  $\geq 10 - < 20$  %  
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 STOT SE 3 ; H336

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

Weight fraction :  $< 25$  %  
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226  
Substance with a common (EC) occupational exposure limit value.

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

Weight fraction :  $< 10$  %  
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Acute Tox. 4 ; H312 Acute Tox. 4 ; H332 Skin Irrit. 2 ; H315

ETHYL ACETATE ; REACH registration No. : 01-2119475103-46 ; EC No. : 205-500-4 ; CAS No. : 141-78-6

Weight fraction :  $< 10$  %  
Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Eye Irrit. 2 ; H319 STOT SE 3 ; H336

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

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

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Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Asp. Tox. 1 ; H304 STOT SE 3 ; H335 STOT SE 3 ; H336 Aquatic Chronic 2 ; H411

ACETONE ; REACH registration No. : 01-2119471330-49 ; EC No. : 200-662-2; CAS No. : 67-64-1

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

Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Eye Irrit. 2 ; H319 STOT SE 3 ; H336

CYCLOPENTANONE ; EC No. : 204-435-9; CAS No. : 120-92-3

Weight fraction :  $< 10 \%$

Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319

HYDROCARBONS, C9-C10, N-ALKANES, ISO-ALKANES, CYCLICS,  $< 2\%$  AROMATES ; REACH registration No. : 01-2119471843-32 ; EC No. : 927-241-2

Weight fraction :  $< 10 \%$

Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Asp. Tox. 1 ; H304 STOT SE 3 ; H336 Aquatic Chronic 3 ; H412

ETHANOL ; REACH registration No. : 01-2119457610-43 ; EC No. : 200-578-6; CAS No. : 64-17-5

Weight fraction :  $< 10 \%$

Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Eye Irrit. 2 ; H319

BUTAN-1-OL ; REACH registration No. : 01-2119484630-23 ; EC No. : 200-751-6; CAS No. : 71-36-3

Weight fraction :  $\geq 1 - < 3 \%$

Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Skin Irrit. 2 ; H315 STOT SE 3 ; H335 STOT SE 3 ; H336

BUTANONE ; REACH registration No. : 01-2119457290-43 ; EC No. : 201-159-0; CAS No. : 78-93-3

Weight fraction :  $< 10 \%$

Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Eye Irrit. 2 ; H319 STOT SE 3 ; H336

ETHYL LACTATE ; REACH registration No. : 01-2119516234-49 ; EC No. : 202-598-0; CAS No. : 97-64-3

Weight fraction :  $\geq 1 - < 3 \%$

Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Eye Dam. 1 ; H318 STOT SE 3 ; H335

PROPAN-2-OL ; REACH registration No. : 01-2119457558-25 ; EC No. : 200-661-7; CAS No. : 67-63-0

Weight fraction :  $< 20 \%$

Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Eye Irrit. 2 ; H319 STOT SE 3 ; H336

2-METHYLPROPAN-1-OL ; REACH registration No. : 01-2119484609-23 ; EC No. : 201-148-0; CAS No. : 78-83-1

Weight fraction :  $\geq 1 - < 3 \%$

Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Eye Dam. 1 ; H318 Skin Irrit. 2 ; H315 STOT SE 3 ; H335 STOT SE 3 ; H336

TOLUENE ; REACH registration No. : 01-2119471310-51 ; EC No. : 203-625-9; CAS No. : 108-88-3

Weight fraction :  $\geq 1 - < 3 \%$

Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Asp. Tox. 1 ; H304 Repr. 2 ; H361d STOT RE 2 ; H373 Skin Irrit. 2 ; H315 STOT SE 3 ; H336

METHANOL ; REACH registration No. : 01-2119433307-44 ; EC No. : 200-659-6; CAS No. : 67-56-1

Weight fraction :  $\geq 1 - < 3 \%$

Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Acute Tox. 3 ; H301 Acute Tox. 3 ; H311 Acute Tox. 3 ; H331 STOT SE 1 ; H370

**This mixture contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH**

None

**This mixture contains the following substances of very high concern (SVHC) which are subject to authorisation according to Annex XIV of REACH**

None

**Additional information**

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

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#### SECTION 4: First aid measures

##### 4.1 Description of first aid measures

###### General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove affected person from the danger area and lay down. Never give anything by mouth to an unconscious person or a person with cramps. If unconscious place in recovery position and seek medical advice.

###### Following inhalation

Remove casualty to fresh air and keep warm and at rest. In case of respiratory tract irritation, consult a physician.

###### In case of skin contact

Change contaminated, saturated clothing. After contact with skin, wash immediately with plenty of water and soap. Rub greasy ointment into the skin.

###### After eye contact

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

###### After ingestion

Do NOT induce vomiting. If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Let water be drunk in little sips (dilution effect).

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

Dizziness Headache Impairment of vision Nausea Vomiting

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

None

#### SECTION 5: Firefighting measures

##### 5.1 Extinguishing media

###### Suitable extinguishing media

alcohol resistant foam Carbon dioxide (CO<sub>2</sub>) Extinguishing powder Water spray

###### Unsuitable extinguishing media

High power water jet

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

In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO<sub>2</sub>)

##### 5.3 Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Protective clothing.

##### 5.4 Additional information

Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Move undamaged containers from immediate hazard area if it can be done safely. Co-ordinate fire-fighting measures to the fire surroundings.

#### SECTION 6: Accidental release measures

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

Use personal protection equipment. Remove all sources of ignition. Wear breathing apparatus if exposed to vapours/dusts/aerosols. Provide adequate ventilation. See protective measures under point 7 and 8.

##### 6.2 Environmental precautions



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Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

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

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal. Clear contaminated areas thoroughly.

### 6.4 Reference to other sections

None

## SECTION 7: Handling and storage



### 7.1 Precautions for safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means. Only use the material in places where open light, fire and other flammable sources can be kept away.

#### Protective measures

All work processes must always be designed so that the following is excluded: Inhalation of vapours or spray/mists  
Take precautionary measures against static discharges.

#### Measures to prevent fire

Keep away from sources of ignition. - No smoking. Usual measures for fire prevention. Vapours are heavier than air, spread along floors and form explosive mixtures with air. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Provide earthing of containers, equipment, pumps and ventilation facilities. Use only antistatically equipped (spark-free) tools. Wear anti-static footwear and clothing Take precautionary measures against static discharges.

#### Measures to prevent aerosol and dust generation

Vapours/aerosols should be exhausted directly at the point of origin. Use only in well-ventilated areas.

#### Environmental precautions

Shafts and sewers must be protected from entry of the product.

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

#### Hints on joint storage

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

### 7.3 Specific end use(s)

None

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limit values

1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2

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

Limit value : 100 ppm / 370 mg/m<sup>3</sup>

Peak limitation : 2(I)

Remark : Y

Version : 04.11.2017



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Limit value type (country of origin) : STEL ( EC )  
Limit value : 150 ppm / 568 mg/m<sup>3</sup>  
Remark : H  
Version : 08.06.2000  
Limit value type (country of origin) : TWA ( EC )  
Limit value : 100 ppm / 375 mg/m<sup>3</sup>  
Remark : H  
Version : 08.06.2000

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 : 04.11.2017

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 : 04.11.2017

Limit value type (country of origin) : STEL ( EC )  
Limit value : 100 ppm / 550 mg/m<sup>3</sup>  
Remark : H  
Version : 08.06.2000  
Limit value type (country of origin) : TWA ( EC )  
Limit value : 50 ppm / 275 mg/m<sup>3</sup>  
Remark : H  
Version : 08.06.2000

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 : 2(II)  
Remark : H  
Version : 04.11.2017

Limit value type (country of origin) : STEL ( EC )  
Limit value : 100 ppm / 442 mg/m<sup>3</sup>  
Remark : H  
Version : 08.06.2000

Limit value type (country of origin) : TWA ( EC )  
Limit value : 50 ppm / 221 mg/m<sup>3</sup>  
Remark : H  
Version : 08.06.2000

ETHYL ACETATE ; CAS No. : 141-78-6

Limit value type (country of origin) : TRGS 900 ( D )  
Limit value : 400 ppm / 1500 mg/m<sup>3</sup>  
Peak limitation : 2(I)  
Remark : Y  
Version : 04.11.2017

HYDROCARBONS, C9, AROMATES

Limit value type (country of origin) : AGW ( D )



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Limit value : 200 mg/m<sup>3</sup> / 8 h  
Version : 16.09.2013

ACETONE ; CAS No. : 67-64-1  
Limit value type (country of origin) : TRGS 900 ( D )  
Limit value : 500 ppm / 1200 mg/m<sup>3</sup>  
Peak limitation : 2(I)  
Remark : Y  
Version : 04.11.2017  
Limit value type (country of origin) : TWA ( EC )  
Limit value : 500 ppm / 1210 mg/m<sup>3</sup>  
Version : 08.06.2000

ETHANOL ; CAS No. : 64-17-5  
Limit value type (country of origin) : TRGS 900 ( D )  
Limit value : 500 ppm / 960 mg/m<sup>3</sup>  
Peak limitation : 2(II)  
Remark : Y  
Version : 04.11.2017

BUTAN-1-OL ; CAS No. : 71-36-3  
Limit value type (country of origin) : TRGS 900 ( D )  
Limit value : 100 ppm / 310 mg/m<sup>3</sup>  
Peak limitation : 1(I)  
Remark : Y  
Version : 04.11.2017

BUTANONE ; CAS No. : 78-93-3  
Limit value type (country of origin) : TRGS 900 ( D )  
Limit value : 200 ppm / 600 mg/m<sup>3</sup>  
Peak limitation : 1(I)  
Remark : H, Y  
Version : 04.11.2017  
Limit value type (country of origin) : STEL ( EC )  
Limit value : 300 ppm / 900 mg/m<sup>3</sup>  
Version : 08.06.2000  
Limit value type (country of origin) : TWA ( EC )  
Limit value : 200 ppm / 600 mg/m<sup>3</sup>  
Version : 08.06.2000

PROPAN-2-OL ; CAS No. : 67-63-0  
Limit value type (country of origin) : TRGS 900 ( D )  
Limit value : 200 ppm / 500 mg/m<sup>3</sup>  
Peak limitation : 2(II)  
Remark : Y  
Version : 04.11.2017

2-METHYLPROPAN-1-OL ; CAS No. : 78-83-1  
Limit value type (country of origin) : TRGS 900 ( D )  
Limit value : 100 ppm / 310 mg/m<sup>3</sup>  
Peak limitation : 1(I)  
Remark : Y  
Version : 04.11.2017

TOLUENE ; CAS No. : 108-88-3  
Limit value type (country of origin) : TRGS 900 ( D )  
Limit value : 50 ppm / 190 mg/m<sup>3</sup>





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Peak limitation : 4(II)  
Remark : H, Y  
Version : 04.11.2017  
Limit value type (country of origin) : STEL ( EC )  
Limit value : 100 ppm / 384 mg/m<sup>3</sup>  
Remark : H  
Version : 07.02.2006  
Limit value type (country of origin) : TWA ( EC )  
Limit value : 50 ppm / 192 mg/m<sup>3</sup>  
Remark : H  
Version : 07.02.2006  
METHANOL ; CAS No. : 67-56-1  
Limit value type (country of origin) : TRGS 900 ( D )  
Limit value : 200 ppm / 270 mg/m<sup>3</sup>  
Peak limitation : 4(II)  
Remark : H, Y  
Version : 04.11.2017  
Limit value type (country of origin) : TWA ( EC )  
Limit value : 200 ppm / 260 mg/m<sup>3</sup>  
Remark : H  
Version : 07.02.2006

**Biological limit values**

XYLENE ; CAS No. : 1330-20-7  
Limit value type (country of origin) : TRGS 903 ( D )  
Parameter : Xylene / Whole blood (B) / End of exposure or end of shift  
Limit value : 1,5 mg/l  
Version : 31.03.2004  
Limit value type (country of origin) : TRGS 903 ( D )  
Parameter : Methylhippuric acid / Urine (U) / End of exposure or end of shift  
Limit value : 2 g/l  
Version : 31.03.2004  
ACETONE ; CAS No. : 67-64-1  
Limit value type (country of origin) : TRGS 903 ( D )  
Parameter : Acetone / Urine (U) / End of exposure or end of shift  
Limit value : 80 mg/l  
Version : 31.03.2004  
BUTAN-1-OL ; CAS No. : 71-36-3  
Limit value type (country of origin) : TRGS 903 ( D )  
Parameter : 1-Butanol / Urine (U) / Before next shift  
Limit value : 2 mg/g Kr  
Version : 31.03.2004  
Limit value type (country of origin) : TRGS 903 ( D )  
Parameter : 1-Butanol / Urine (U) / End of exposure or end of shift  
Limit value : 10 mg/g Kr  
Version : 31.03.2004  
BUTANONE ; CAS No. : 78-93-3  
Limit value type (country of origin) : TRGS 903 ( D )  
Parameter : 2-Butanone / Urine (U) / End of exposure or end of shift  
Limit value : 2 mg/l





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Version : 01.05.2015  
PROPAN-2-OL ; CAS No. : 67-63-0  
Limit value type (country of origin) : TRGS 903 ( D )  
Parameter : Acetone / Whole blood (B) / End of exposure or end of shift  
Limit value : 50 mg/l  
Version : 31.03.2004  
Limit value type (country of origin) : TRGS 903 ( D )  
Parameter : Acetone / Urine (U) / End of exposure or end of shift  
Limit value : 50 mg/l  
Version : 31.03.2004  
TOLUENE ; CAS No. : 108-88-3  
Limit value type (country of origin) : TRGS 903 ( D )  
Parameter : Toluene / Whole blood (B) / End of exposure or end of shift  
Limit value : 1 mg/l  
Version : 31.03.2004  
Limit value type (country of origin) : TRGS 903 ( D )  
Parameter : o-Cresol / Urine (U) / End of exposure or end of shift ; At long term exposure: after several previous shifts  
Limit value : 3 mg/l  
Version : 31.03.2004  
METHANOL ; CAS No. : 67-56-1  
Limit value type (country of origin) : TRGS 903 ( D )  
Parameter : Methanol / Urine (U) / End of exposure or end of shift ; At long term exposure: after several previous shifts  
Limit value : 30 mg/l  
Version : 31.03.2004

### DNEL/DMEL and PNEC values

#### DNEL/DMEL

Limit value type : DNEL Consumer (systemic) ( 1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2 )  
Exposure route : Dermal  
Exposure frequency : Langzeit - systemisch  
Limit value : 18,1 mg/kg  
Limit value type : DNEL Consumer (systemic) ( 1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2 )  
Exposure route : Inhalation  
Exposure frequency : Langzeit - systemisch  
Limit value : 43,9 mg/m<sup>3</sup>  
Limit value type : DNEL Consumer (systemic) ( 1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2 )  
Exposure route : Oral  
Exposure frequency : Langzeit - systemisch  
Limit value : 3,3 mg/kg  
Limit value type : DNEL worker (local) ( 1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2 )  
Exposure route : Inhalation  
Exposure frequency : Kurzzeit - lokal  
Limit value : 553,5 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic) ( 1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2 )  
Exposure route : Dermal  
Exposure frequency : Langzeit - systemisch  
Limit value : 50,6 mg/kg  
Limit value type : DNEL worker (systemic) ( 1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2 )  
Exposure route : Inhalation

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Exposure frequency :	Langzeit - systemisch
Limit value :	369 mg/m <sup>3</sup>
Limit value type :	DNEL Consumer (local) ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )
Exposure route :	Inhalation
Exposure frequency :	Kurzzeit - lokal
Limit value :	859,7 mg/m <sup>3</sup>
Limit value type :	DNEL Consumer (local) ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )
Exposure route :	Inhalation
Exposure frequency :	Langzeit - lokal
Limit value :	102,34 mg/m <sup>3</sup>
Limit value type :	DNEL Consumer (systemic) ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )
Exposure route :	Inhalation
Exposure frequency :	Kurzzeit - systemisch
Limit value :	859,7 mg/m <sup>3</sup>
Limit value type :	DNEL Consumer (systemic) ( 2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6 )
Exposure route :	Oral
Exposure frequency :	Langzeit - systemisch
Limit value :	36 mg/kg
Limit value type :	DNEL Consumer (systemic) ( 2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6 )
Exposure route :	Inhalation
Exposure frequency :	Langzeit - systemisch
Limit value :	33 mg/m <sup>3</sup>
Limit value type :	DNEL Consumer (systemic) ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )
Exposure route :	Inhalation
Exposure frequency :	Langzeit - systemisch
Limit value :	102,34 mg/m <sup>3</sup>
Limit value type :	DNEL Consumer (systemic) ( 2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6 )
Exposure route :	Dermal
Exposure frequency :	Langzeit - systemisch
Limit value :	320 mg/kg
Limit value type :	DNEL worker (local) ( 2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6 )
Exposure route :	Inhalation
Exposure frequency :	Kurzzeit - lokal
Limit value :	550 mg/m <sup>3</sup>
Limit value type :	DNEL worker (local) ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )
Exposure route :	Inhalation
Exposure frequency :	Kurzzeit - lokal
Limit value :	960 mg/m <sup>3</sup>
Limit value type :	DNEL worker (local) ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )
Exposure route :	Inhalation
Exposure frequency :	Langzeit - lokal
Limit value :	480 mg/m <sup>3</sup>
Limit value type :	DNEL worker (systemic) ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )
Exposure route :	Inhalation
Exposure frequency :	Kurzzeit - systemisch
Limit value :	960 mg/m <sup>3</sup>
Limit value type :	DNEL worker (systemic) ( 2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6 )
Exposure route :	Inhalation

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Exposure frequency :	Langzeit - systemisch
Limit value :	275 mg/m <sup>3</sup>
Limit value type :	DNEL worker (systemic) ( 2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6 )
Exposure route :	Dermal
Exposure frequency :	Langzeit - systemisch
Limit value :	796 mg/kg
Limit value type :	DNEL worker (systemic) ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )
Exposure route :	Inhalation
Exposure frequency :	Langzeit - systemisch
Limit value :	480 mg/m <sup>3</sup>
Limit value type :	DNEL Consumer (local) ( ETHYL ACETATE ; CAS No. : 141-78-6 )
Exposure route :	Inhalation
Exposure frequency :	Kurzzeit - lokal
Limit value :	734 mg/m <sup>3</sup>
Limit value type :	DNEL Consumer (systemic) ( ETHYL ACETATE ; CAS No. : 141-78-6 )
Exposure route :	Dermal
Exposure frequency :	Langzeit - systemisch
Limit value :	37 mg/kg
Limit value type :	DNEL Consumer (systemic) ( HYDROCARBONS, C9, AROMATES )
Exposure route :	Inhalation
Exposure frequency :	Langzeit - systemisch
Limit value :	32 mg/m <sup>3</sup>
Limit value type :	DNEL Consumer (systemic) ( XYLENE ; CAS No. : 1330-20-7 )
Exposure route :	Inhalation
Exposure frequency :	Kurzzeit - systemisch
Limit value :	174 mg/m <sup>3</sup>
Limit value type :	DNEL Consumer (systemic) ( XYLENE ; CAS No. : 1330-20-7 )
Exposure route :	Dermal
Exposure frequency :	Langzeit - systemisch
Limit value :	108 mg/kg
Limit value type :	DNEL Consumer (systemic) ( HYDROCARBONS, C9, AROMATES )
Exposure route :	Dermal
Exposure frequency :	Langzeit - systemisch
Limit value :	11 mg/kg
Limit value type :	DNEL Consumer (systemic) ( ETHYL ACETATE ; CAS No. : 141-78-6 )
Exposure route :	Inhalation
Exposure frequency :	Langzeit - systemisch
Limit value :	367 mg/m <sup>3</sup>
Limit value type :	DNEL Consumer (systemic) ( ETHYL ACETATE ; CAS No. : 141-78-6 )
Exposure route :	Oral
Exposure frequency :	Langzeit - systemisch
Limit value :	4,5 mg/kg
Limit value type :	DNEL Consumer (systemic) ( HYDROCARBONS, C9, AROMATES )
Exposure route :	Oral
Exposure frequency :	Langzeit - systemisch
Limit value :	11 mg/kg
Limit value type :	DNEL Consumer (systemic) ( XYLENE ; CAS No. : 1330-20-7 )
Exposure route :	Inhalation
Exposure frequency :	Langzeit - systemisch
Limit value :	14,8 mg/kg

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Limit value type :	DNEL Consumer (systemic) ( XYLENE ; CAS No. : 1330-20-7 )
Exposure route :	Oral
Exposure frequency :	Langzeit - systemisch
Limit value :	1,6 mg/kg
Limit value type :	DNEL Consumer (systemic) ( ETHYL ACETATE ; CAS No. : 141-78-6 )
Exposure route :	Inhalation
Exposure frequency :	Langzeit - lokal
Limit value :	367 mg/kg
Limit value type :	DNEL worker (local) ( ETHYL ACETATE ; CAS No. : 141-78-6 )
Exposure route :	Inhalation
Exposure frequency :	Kurzzeit - lokal
Limit value :	1468 mg/m <sup>3</sup>
Limit value type :	DNEL worker (local) ( ETHYL ACETATE ; CAS No. : 141-78-6 )
Exposure route :	Inhalation
Exposure frequency :	Langzeit - lokal
Limit value :	734 mg/m <sup>3</sup>
Limit value type :	DNEL worker (systemic) ( ETHYL ACETATE ; CAS No. : 141-78-6 )
Exposure route :	Dermal
Exposure frequency :	Langzeit - systemisch
Limit value :	63 mg/kg
Limit value type :	DNEL worker (systemic) ( HYDROCARBONS, C9, AROMATES )
Exposure route :	Dermal
Exposure frequency :	Langzeit - systemisch
Limit value :	25 mg/kg
Limit value type :	DNEL worker (systemic) ( XYLENE ; CAS No. : 1330-20-7 )
Exposure route :	Inhalation
Exposure frequency :	Kurzzeit - systemisch
Limit value :	289 mg/m <sup>3</sup>
Limit value type :	DNEL worker (systemic) ( HYDROCARBONS, C9, AROMATES )
Exposure route :	Inhalation
Exposure frequency :	Langzeit - systemisch
Limit value :	150 mg/m <sup>3</sup>
Limit value type :	DNEL worker (systemic) ( ETHYL ACETATE ; CAS No. : 141-78-6 )
Exposure route :	Inhalation
Exposure frequency :	Langzeit - systemisch
Limit value :	734 mg/m <sup>3</sup>
Limit value type :	DNEL worker (systemic) ( XYLENE ; CAS No. : 1330-20-7 )
Exposure route :	Dermal
Exposure frequency :	Langzeit - systemisch
Limit value :	180 mg/kg
Limit value type :	DNEL worker (systemic) ( XYLENE ; CAS No. : 1330-20-7 )
Exposure route :	Inhalation
Exposure frequency :	Langzeit - systemisch
Limit value :	77 mg/m <sup>3</sup>
Limit value type :	DNEL Consumer (systemic) ( ACETONE ; CAS No. : 67-64-1 )
Exposure route :	Dermal
Exposure frequency :	Langzeit - systemisch
Limit value :	62 mg/kg
Limit value type :	DNEL Consumer (systemic) ( ACETONE ; CAS No. : 67-64-1 )
Exposure route :	Inhalation
Exposure frequency :	Langzeit - systemisch

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Limit value :	200 mg/m <sup>3</sup>
Limit value type :	DNEL Consumer (systemic) ( ACETONE ; CAS No. : 67-64-1 )
Exposure route :	Oral
Exposure frequency :	Langzeit - systemisch
Limit value :	62 mg/kg
Limit value type :	DNEL worker (local) ( ACETONE ; CAS No. : 67-64-1 )
Exposure route :	Inhalation
Exposure frequency :	Langzeit - lokal
Limit value :	2420 mg/m <sup>3</sup>
Limit value type :	DNEL worker (systemic) ( ACETONE ; CAS No. : 67-64-1 )
Exposure route :	Dermal
Exposure frequency :	Langzeit - systemisch
Limit value :	186 mg/kg
Limit value type :	DNEL worker (systemic) ( ACETONE ; CAS No. : 67-64-1 )
Exposure route :	Inhalation
Exposure frequency :	Langzeit - systemisch
Limit value :	1210 mg/m <sup>3</sup>
Limit value type :	DNEL worker (systemic) ( ACETONE ; CAS No. : 67-64-1 )
Exposure route :	Inhalation
Exposure frequency :	Kurzzeit - systemisch
Limit value :	1210 mg/m <sup>3</sup>
Limit value type :	DNEL Consumer (systemic) ( HYDROCARBONS, C9-C10, N-ALKANES, ISO-ALKANES, CYCLICS, < 2% AROMATES )
Exposure route :	Dermal
Exposure frequency :	Langzeit - systemisch
Limit value :	300 mg/kg
Safety factor :	1 d
Limit value type :	DNEL Consumer (systemic) ( HYDROCARBONS, C9-C10, N-ALKANES, ISO-ALKANES, CYCLICS, < 2% AROMATES )
Exposure route :	Inhalation
Exposure frequency :	Langzeit - systemisch
Limit value :	900 mg/m <sup>3</sup>
Limit value type :	DNEL Consumer (systemic) ( HYDROCARBONS, C9-C10, N-ALKANES, ISO-ALKANES, CYCLICS, < 2% AROMATES )
Exposure route :	Oral
Exposure frequency :	Langzeit - systemisch
Limit value :	300 mg/kg
Safety factor :	1 d
Limit value type :	DNEL worker (systemic) ( HYDROCARBONS, C9-C10, N-ALKANES, ISO-ALKANES, CYCLICS, < 2% AROMATES )
Exposure route :	Dermal
Exposure frequency :	Langzeit - systemisch
Limit value :	300 mg/kg
Safety factor :	1 d
Limit value type :	DNEL worker (systemic) ( HYDROCARBONS, C9-C10, N-ALKANES, ISO-ALKANES, CYCLICS, < 2% AROMATES )
Exposure route :	Inhalation
Exposure frequency :	Langzeit - systemisch
Limit value :	1500 mg/m <sup>3</sup>
Limit value type :	DNEL Consumer (local) ( ETHANOL ; CAS No. : 64-17-5 )
Exposure route :	Inhalation
Exposure frequency :	Kurzzeit - lokal

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Limit value :	950 mg/kg
Limit value type :	DNEL Consumer (local) ( 2-METHYLPROPAN-1-OL ; CAS No. : 78-83-1 )
Exposure route :	Inhalation
Exposure frequency :	Langzeit - lokal
Limit value :	55 mg/m <sup>3</sup>
Limit value type :	DNEL Consumer (systemic) ( 2-METHYLPROPAN-1-OL ; CAS No. : 78-83-1 )
Exposure route :	Oral
Exposure frequency :	Langzeit - systemisch
Limit value :	25 mg/kg
Limit value type :	DNEL Consumer (systemic) ( ETHANOL ; CAS No. : 64-17-5 )
Exposure route :	Dermal
Exposure frequency :	Langzeit - systemisch
Limit value :	206 mg/kg
Limit value type :	DNEL Consumer (systemic) ( BUTANONE ; CAS No. : 78-93-3 )
Exposure route :	Oral
Exposure frequency :	Langzeit - systemisch
Limit value :	31 mg/kg
Limit value type :	DNEL Consumer (systemic) ( PROPAN-2-OL ; CAS No. : 67-63-0 )
Exposure route :	Dermal
Exposure frequency :	Langzeit - systemisch
Limit value :	319 mg/kg
Limit value type :	DNEL Consumer (systemic) ( PROPAN-2-OL ; CAS No. : 67-63-0 )
Exposure route :	Inhalation
Exposure frequency :	Langzeit - systemisch
Limit value :	89 mg/m <sup>3</sup>
Limit value type :	DNEL Consumer (systemic) ( BUTANONE ; CAS No. : 78-93-3 )
Exposure route :	Dermal
Exposure frequency :	Langzeit - systemisch
Limit value :	412 mg/kg
Limit value type :	DNEL Consumer (systemic) ( ETHANOL ; CAS No. : 64-17-5 )
Exposure route :	Inhalation
Exposure frequency :	Langzeit - systemisch
Limit value :	114 mg/m <sup>3</sup>
Limit value type :	DNEL Consumer (systemic) ( ETHANOL ; CAS No. : 64-17-5 )
Exposure route :	Oral
Exposure frequency :	Langzeit - systemisch
Limit value :	87 mg/kg
Limit value type :	DNEL Consumer (systemic) ( BUTANONE ; CAS No. : 78-93-3 )
Exposure route :	Inhalation
Exposure frequency :	Langzeit - systemisch
Limit value :	106 mg/m <sup>3</sup>
Limit value type :	DNEL Consumer (systemic) ( PROPAN-2-OL ; CAS No. : 67-63-0 )
Exposure route :	Oral
Exposure frequency :	Langzeit - systemisch
Limit value :	26 mg/kg
Limit value type :	DNEL worker (local) ( ETHANOL ; CAS No. : 64-17-5 )
Exposure route :	Inhalation
Exposure frequency :	Kurzzeit - lokal
Limit value :	1900 mg/m <sup>3</sup>
Limit value type :	DNEL worker (local) ( 2-METHYLPROPAN-1-OL ; CAS No. : 78-83-1 )
Exposure route :	Inhalation

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Exposure frequency :	Langzeit - lokal
Limit value :	310 mg/m <sup>3</sup>
Limit value type :	DNEL worker (systemic) ( ETHANOL ; CAS No. : 64-17-5 )
Exposure route :	Dermal
Exposure frequency :	Langzeit - systemisch
Limit value :	343 mg/kg
Limit value type :	DNEL worker (systemic) ( BUTANONE ; CAS No. : 78-93-3 )
Exposure route :	Dermal
Exposure frequency :	Langzeit - systemisch
Limit value :	1161 mg/kg
Limit value type :	DNEL worker (systemic) ( PROPAN-2-OL ; CAS No. : 67-63-0 )
Exposure route :	Dermal
Exposure frequency :	Langzeit - systemisch
Limit value :	888 mg/kg
Limit value type :	DNEL worker (systemic) ( PROPAN-2-OL ; CAS No. : 67-63-0 )
Exposure route :	Inhalation
Exposure frequency :	Langzeit - systemisch
Limit value :	500 mg/m <sup>3</sup>
Limit value type :	DNEL worker (systemic) ( BUTANONE ; CAS No. : 78-93-3 )
Exposure route :	Inhalation
Exposure frequency :	Langzeit - systemisch
Limit value :	600 mg/m <sup>3</sup>
Limit value type :	DNEL worker (systemic) ( ETHANOL ; CAS No. : 64-17-5 )
Exposure route :	Inhalation
Exposure frequency :	Langzeit - systemisch
Limit value :	950 mg/m <sup>3</sup>
Limit value type :	DNEL Consumer (local) ( TOLUENE ; CAS No. : 108-88-3 )
Exposure route :	Inhalation
Exposure frequency :	Kurzzeit - lokal
Limit value :	226 mg/m <sup>3</sup>
Limit value type :	DNEL Consumer (systemic) ( TOLUENE ; CAS No. : 108-88-3 )
Exposure route :	Inhalation
Exposure frequency :	Kurzzeit - systemisch
Limit value :	226 mg/m <sup>3</sup>
Limit value type :	DNEL Consumer (systemic) ( TOLUENE ; CAS No. : 108-88-3 )
Exposure route :	Inhalation
Exposure frequency :	Langzeit - systemisch
Limit value :	56,5 mg/m <sup>3</sup>
Limit value type :	DNEL Consumer (systemic) ( TOLUENE ; CAS No. : 108-88-3 )
Exposure route :	Oral
Exposure frequency :	Langzeit - systemisch
Limit value :	8,13 mg/kg
Safety factor :	1 d
Limit value type :	DNEL Consumer (systemic) ( TOLUENE ; CAS No. : 108-88-3 )
Exposure route :	Dermal
Exposure frequency :	Langzeit - systemisch
Limit value :	226 mg/kg
Safety factor :	1 d
Limit value type :	DNEL worker (local) ( TOLUENE ; CAS No. : 108-88-3 )
Exposure route :	Inhalation
Exposure frequency :	Kurzzeit - lokal



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Limit value : 384 mg/m<sup>3</sup>  
Limit value type : DNEL worker (local) ( TOLUENE ; CAS No. : 108-88-3 )  
Exposure route : Inhalation  
Exposure frequency : Langzeit - lokal  
Limit value : 192 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic) ( TOLUENE ; CAS No. : 108-88-3 )  
Exposure route : Inhalation  
Exposure frequency : Kurzzeit - systemisch  
Limit value : 384 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic) ( TOLUENE ; CAS No. : 108-88-3 )  
Exposure route : Inhalation  
Exposure frequency : Langzeit - systemisch  
Limit value : 192 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic) ( TOLUENE ; CAS No. : 108-88-3 )  
Exposure route : Dermal  
Exposure frequency : Langzeit - systemisch  
Limit value : 384 mg/kg  
Safety factor : 1 d

**PNEC**

Limit value type : PNEC aquatic, freshwater ( 1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2 )  
Limit value : 10 mg/l  
Limit value type : PNEC aquatic, marine water ( 1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2 )  
Limit value : 1 mg/l  
Limit value type : PNEC sediment, freshwater ( 1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2 )  
Limit value : 41,6 mg/kg  
Limit value type : PNEC sediment, marine water ( 1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2 )  
Limit value : 4,17 mg/kg  
Limit value type : PNEC soil, freshwater ( 1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2 )  
Limit value : 2,47 mg/kg  
Limit value type : PNEC sewage treatment plant (STP) ( 1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2 )  
Limit value : 100 mg/l  
Limit value type : PNEC aquatic, freshwater ( 2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6 )  
Limit value : 0,635 mg/l  
Limit value type : PNEC aquatic, freshwater ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )  
Limit value : 0,18 mg/l  
Limit value type : PNEC aquatic, intermittent release ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )  
Limit value : 0,36 mg/l  
Limit value type : PNEC aquatic, intermittent release ( 2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6 )  
Limit value : 6,35 mg/l  
Limit value type : PNEC aquatic, marine water ( 2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6 )  
Limit value : 0,0635 mg/l  
Limit value type : PNEC aquatic, marine water ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )  
Limit value : 0,018 mg/l  
Limit value type : PNEC sediment, freshwater ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )  
Limit value : 0,981 mg/kg  
Limit value type : PNEC sediment, freshwater ( 2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6 )  
Limit value : 3,29 mg/kg  
Limit value type : PNEC sediment, marine water ( 2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. :

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Limit value :	108-65-6 )
Limit value type :	0,29 mg/kg
Limit value :	PNEC sediment, marine water ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )
Limit value type :	0,0981 mg/kg
Limit value :	PNEC soil, freshwater ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )
Limit value type :	0,0903 mg/kg
Limit value :	PNEC soil, freshwater ( 2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6 )
Limit value type :	0,29 mg/kg
Limit value :	PNEC sewage treatment plant (STP) ( 2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6 )
Limit value type :	100 mg/l
Limit value :	PNEC sewage treatment plant (STP) ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )
Limit value type :	35,6 mg/l
Limit value :	PNEC aquatic, freshwater ( XYLENE ; CAS No. : 1330-20-7 )
Limit value type :	0,327 mg/l
Limit value :	PNEC aquatic, freshwater ( ETHYL ACETATE ; CAS No. : 141-78-6 )
Limit value type :	0,26 mg/l
Limit value :	PNEC aquatic, intermittent release ( XYLENE ; CAS No. : 1330-20-7 )
Limit value type :	0,327 mg/l
Limit value :	PNEC aquatic, marine water ( XYLENE ; CAS No. : 1330-20-7 )
Limit value type :	0,327 mg/l
Limit value :	PNEC aquatic, marine water ( ETHYL ACETATE ; CAS No. : 141-78-6 )
Limit value type :	0,026 mg/l
Limit value :	PNEC sediment, freshwater ( ETHYL ACETATE ; CAS No. : 141-78-6 )
Limit value type :	0,34 mg/kg
Limit value :	PNEC sediment, freshwater ( XYLENE ; CAS No. : 1330-20-7 )
Limit value type :	12,46 mg/kg
Limit value :	PNEC sediment, marine water ( XYLENE ; CAS No. : 1330-20-7 )
Limit value type :	12,46 mg/kg
Limit value :	PNEC sediment, marine water ( ETHYL ACETATE ; CAS No. : 141-78-6 )
Limit value type :	0,034 mg/kg
Limit value :	PNEC soil, freshwater ( ETHYL ACETATE ; CAS No. : 141-78-6 )
Limit value type :	0,22 mg/kg
Limit value :	PNEC soil, freshwater ( XYLENE ; CAS No. : 1330-20-7 )
Limit value type :	2,31 mg/kg
Limit value :	PNEC sewage treatment plant (STP) ( XYLENE ; CAS No. : 1330-20-7 )
Limit value type :	6,58 mg/l
Limit value :	PNEC sewage treatment plant (STP) ( ETHYL ACETATE ; CAS No. : 141-78-6 )
Limit value type :	650 mg/l
Limit value :	PNEC aquatic, freshwater ( ACETONE ; CAS No. : 67-64-1 )
Limit value type :	10,6 mg/l
Limit value :	PNEC aquatic, marine water ( ACETONE ; CAS No. : 67-64-1 )
Limit value type :	1,06 mg/l
Limit value :	PNEC zeitweise Freisetzung ( ACETONE ; CAS No. : 67-64-1 )
Limit value type :	sporadische Freisetzung
Limit value :	21 mg/l
Limit value type :	PNEC sediment, freshwater ( ACETONE ; CAS No. : 67-64-1 )
Limit value type :	30,04 mg/kg
Limit value :	PNEC sediment, marine water ( ACETONE ; CAS No. : 67-64-1 )
Limit value type :	3,04 mg/kg
Limit value :	PNEC soil, freshwater ( ACETONE ; CAS No. : 67-64-1 )

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Limit value :	29,5 mg/kg
Limit value type :	PNEC sewage treatment plant (STP) ( ACETONE ; CAS No. : 67-64-1 )
Limit value :	100 mg/l
Limit value type :	PNEC aquatic, freshwater ( BUTANONE ; CAS No. : 78-93-3 )
Limit value :	55,8 mg/l
Limit value type :	PNEC aquatic, freshwater ( ETHANOL ; CAS No. : 64-17-5 )
Limit value :	0,96 mg/l
Limit value type :	PNEC aquatic, freshwater ( 2-METHYLPROPAN-1-OL ; CAS No. : 78-83-1 )
Limit value :	0,4 mg/l
Limit value type :	PNEC aquatic, freshwater ( PROPAN-2-OL ; CAS No. : 67-63-0 )
Limit value :	140,9 mg/l
Limit value type :	PNEC aquatic, marine water ( PROPAN-2-OL ; CAS No. : 67-63-0 )
Limit value :	140,9 mg/l
Limit value type :	PNEC aquatic, marine water ( 2-METHYLPROPAN-1-OL ; CAS No. : 78-83-1 )
Limit value :	0,04 mg/l
Limit value type :	PNEC aquatic, marine water ( ETHANOL ; CAS No. : 64-17-5 )
Limit value :	0,79 mg/l
Limit value type :	PNEC aquatic, marine water ( BUTANONE ; CAS No. : 78-93-3 )
Limit value :	55,8 mg/l
Limit value type :	PNEC zeitweise Freisetzung ( BUTANONE ; CAS No. : 78-93-3 )
Limit value :	55,8 mg/l
Limit value type :	PNEC zeitweise Freisetzung ( 2-METHYLPROPAN-1-OL ; CAS No. : 78-83-1 )
Limit value :	11 mg/l
Limit value type :	PNEC zeitweise Freisetzung ( PROPAN-2-OL ; CAS No. : 67-63-0 )
Limit value :	140,9 mg/l
Limit value type :	PNEC sediment, freshwater ( PROPAN-2-OL ; CAS No. : 67-63-0 )
Limit value :	552 mg/kg
Limit value type :	PNEC sediment, freshwater ( 2-METHYLPROPAN-1-OL ; CAS No. : 78-83-1 )
Limit value :	1,52 mg/kg
Limit value type :	PNEC sediment, freshwater ( BUTANONE ; CAS No. : 78-93-3 )
Limit value :	284,74 mg/kg
Limit value type :	PNEC sediment, freshwater ( ETHANOL ; CAS No. : 64-17-5 )
Limit value :	3,6 mg/kg
Limit value type :	PNEC sediment, marine water ( ETHANOL ; CAS No. : 64-17-5 )
Limit value :	2,9 mg/kg
Limit value type :	PNEC sediment, marine water ( BUTANONE ; CAS No. : 78-93-3 )
Limit value :	287,7 mg/kg
Limit value type :	PNEC sediment, marine water ( 2-METHYLPROPAN-1-OL ; CAS No. : 78-83-1 )
Limit value :	0,125 mg/kg
Limit value type :	PNEC sediment, marine water ( PROPAN-2-OL ; CAS No. : 67-63-0 )
Limit value :	552 mg/kg
Limit value type :	PNEC soil, freshwater ( PROPAN-2-OL ; CAS No. : 67-63-0 )
Limit value :	28 mg/kg
Limit value type :	PNEC soil, freshwater ( 2-METHYLPROPAN-1-OL ; CAS No. : 78-83-1 )
Limit value :	0,0699 mg/kg
Limit value type :	PNEC soil, freshwater ( BUTANONE ; CAS No. : 78-93-3 )
Limit value :	22,5 mg/kg
Limit value type :	PNEC soil, freshwater ( ETHANOL ; CAS No. : 64-17-5 )
Limit value :	0,63 mg/kg
Limit value type :	PNEC Secondary Poisoning ( ETHANOL ; CAS No. : 64-17-5 )
Limit value :	0,72 mg/kg



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Limit value type :	PNEC Secondary Poisoning ( PROPAN-2-OL ; CAS No. : 67-63-0 )
Limit value :	160 mg/kg
Limit value type :	PNEC sewage treatment plant (STP) ( PROPAN-2-OL ; CAS No. : 67-63-0 )
Limit value :	2251 mg/l
Limit value type :	PNEC sewage treatment plant (STP) ( 2-METHYLPROPAN-1-OL ; CAS No. : 78-83-1 )
Limit value :	10 mg/l
Limit value type :	PNEC sewage treatment plant (STP) ( ETHANOL ; CAS No. : 64-17-5 )
Limit value :	580 mg/l
Limit value type :	PNEC sewage treatment plant (STP) ( BUTANONE ; CAS No. : 78-93-3 )
Limit value :	709 mg/l
Limit value type :	PNEC aquatic, freshwater ( TOLUENE ; CAS No. : 108-88-3 )
Limit value :	0,68 mg/l
Limit value type :	PNEC sediment, freshwater ( TOLUENE ; CAS No. : 108-88-3 )
Limit value :	16,39 mg/kg
Limit value type :	PNEC soil, freshwater ( TOLUENE ; CAS No. : 108-88-3 )
Limit value :	2,89 mg/kg
Limit value type :	PNEC sewage treatment plant (STP) ( TOLUENE ; CAS No. : 108-88-3 )
Limit value :	13,61 mg/l

### 8.2 Exposure controls



#### Personal protection equipment

##### Eye/face protection

Eye glasses with side protection

##### Skin protection

###### Hand protection

**Suitable gloves type :** Gloves with long cuffs

**Suitable material :** Barrier (PE/PA/PE)

**Breakthrough time :**  $\geq$  480 min

**Thickness of the glove material :** 0,7 mm

**Recommended glove articles :** DIN EN 374

**Additional hand protection measures :** Check leak tightness/impermeability prior to use. Do not wear gloves near rotary machines and tools. In the case of wanting to use the gloves again, clean them before taking off and air them well.

**Remark :** The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

###### Body protection

lab coat Overall

**Suitable protective clothing :** For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes). Chemical resistant safety shoes Only wear fitting, comfortable and clean protective clothing.

**Required properties :** antistatic. flame-resistant heat-resistant

**Recommended material :** Natural fibres (e.g. cotton) heat-resistant synthetic fibres

##### Respiratory protection

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.



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Respiratory protection necessary at: exceeding exposure limit values / aerosol or mist formation.

### Suitable respiratory protection apparatus

Self-contained respirator (breathing apparatus) (DIN EN 133).

### General health and safety measures

Wash hands before breaks and after work. Apply skin care products after work.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

**Appearance :** liquid

**Colour :** light yellow

**Odour :** characteristic

#### Safety relevant basis data

<b>Melting point/melting range :</b>			not determined	
<b>Initial boiling point and boiling range :</b>	( 1013 hPa )		55,0 - 185,0	°C
<b>Decomposition temperature :</b>			No data available	
<b>Flash point :</b>		approx.	-10,0	°C DIN 51755 part 1
<b>Ignition temperature :</b>		>	200,0	°C
<b>Oxidising liquids :</b>			No data available.	
<b>Lower explosion limit :</b>			1,0	Vol-%
<b>Upper explosion limit :</b>			36,5	Vol-%
<b>Explosive properties :</b>			No data available.	
<b>Vapour pressure 20°C):</b>	( 20 °C )		No data available	
<b>Density :</b>	( 20 °C )	approx.	0,847	g/cm <sup>3</sup>
<b>Water solubility :</b>	( 20 °C )		partially miscible	
<b>pH-value:</b>	( 20 °C / conc. )		not applicable	
<b>log P O/W :</b>			No data available	
<b>Cinematic viscosity :</b>	( 40 °C )	<	20,5	mm <sup>2</sup> /s
<b>Odour threshold :</b>			No data available	
<b>Relative vapour density :</b>	( 20 °C )		No data available	(air = 1)
<b>Vapourisation rate :</b>			No data available	
<b>Maximum VOC content (EC) :</b>	( 20 °C )		100,0	Wt % gem. RL 1999/13/EG
<b>Max. VOC content (Decopaint):</b>	( 20 °C )		100,0	Wt % gem. RL 2004/42/EG

### 9.2 Other information

no more data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No information available.

### 10.2 Chemical stability

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

### 10.3 Possibility of hazardous reactions

Formation of explosive mixtures with: Air. possible

### 10.4 Conditions to avoid

Heat, sparks, flames and other ignition sources.



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### 10.5 Incompatible materials

Alkali (lye), concentrated. Acid, concentrated. Oxidising agent, strong.

### 10.6 Hazardous decomposition products

Does not decompose when used for intended uses.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute effects

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

#### Acute oral toxicity

Parameter :	LD50 ( 1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2 )
Exposure route :	Oral
Species :	Rat
Effective dose :	4016 mg/kg
Parameter :	LD50 ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )
Exposure route :	Oral
Species :	Rat
Effective dose :	10760 mg/kg
Method :	OECD 423
Parameter :	LD50 ( 2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6 )
Exposure route :	Oral
Species :	Rat
Effective dose :	> 5000 mg/kg
Parameter :	LD50 ( HYDROCARBONS, C9, AROMATES )
Exposure route :	Oral
Species :	Rat
Effective dose :	3592 mg/kg
Method :	OECD 401
Parameter :	LD50 ( ETHYL ACETATE ; CAS No. : 141-78-6 )
Exposure route :	Oral
Species :	Mouse
Effective dose :	4100 mg/kg
Parameter :	LD50 ( XYLENE ; CAS No. : 1330-20-7 )
Exposure route :	Oral
Species :	Rat
Effective dose :	3523 mg/kg
Parameter :	LD50 ( ETHYL ACETATE ; CAS No. : 141-78-6 )
Exposure route :	Oral
Species :	Rat
Effective dose :	5620 mg/kg
Parameter :	LD50 ( ETHYL ACETATE ; CAS No. : 141-78-6 )
Exposure route :	Oral
Species :	Rabbit
Effective dose :	4934 mg/kg
Parameter :	LD50 ( ACETONE ; CAS No. : 67-64-1 )
Exposure route :	Oral
Species :	Rat
Effective dose :	5800 mg/kg
Method :	OECD 401

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Parameter :	LD50 ( HYDROCARBONS, C9-C10, N-ALKANES, ISO-ALKANES, CYCLICS, < 2% AROMATES )
Exposure route :	Oral
Species :	Rat
Effective dose :	> 5000 mg/kg
Method :	OECD 401
Parameter :	LD50 ( PROPAN-2-OL ; CAS No. : 67-63-0 )
Exposure route :	Oral
Species :	Rat
Effective dose :	4570 mg/kg
Parameter :	LD50 ( 2-METHYLPROPAN-1-OL ; CAS No. : 78-83-1 )
Exposure route :	Oral
Species :	Rat
Effective dose :	3350 mg/kg
Method :	OECD 401
Parameter :	LD50 ( BUTANONE ; CAS No. : 78-93-3 )
Exposure route :	Oral
Species :	Rat
Effective dose :	> 2193 mg/kg
Method :	OECD 423
Parameter :	LD50 ( ETHANOL ; CAS No. : 64-17-5 )
Exposure route :	Oral
Species :	Rat
Effective dose :	> 2000 mg/kg
Method :	OECD 401
Parameter :	LD50 ( BUTAN-1-OL ; CAS No. : 71-36-3 )
Exposure route :	Oral
Species :	Rat
Effective dose :	790 mg/kg
Parameter :	LD50 ( 2-METHYLPROPAN-1-OL ; CAS No. : 78-83-1 )
Exposure route :	Oral
Species :	Male
Effective dose :	> 2830 mg/kg
Method :	OECD 401
Parameter :	LD50 ( TOLUENE ; CAS No. : 108-88-3 )
Exposure route :	Oral
Species :	Rat
Effective dose :	5580 mg/kg
Method :	OECD 401
Parameter :	LD50 ( METHANOL ; CAS No. : 67-56-1 )
Exposure route :	Oral
Species :	Rat
Effective dose :	5628 mg/kg

**Acute dermal toxicity**

Parameter :	LD50 ( 1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2 )
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	2000 mg/kg
Parameter :	LD50 ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )
Exposure route :	Dermal
Species :	Rabbit



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Effective dose : > 14112 mg/kg  
Method : OECD 402  
Parameter : LD50 ( 2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6 )  
Exposure route : Dermal  
Effective dose : > 2000 mg/kg  
Parameter : LD50 ( HYDROCARBONS, C9, AROMATES )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : > 3160 mg/kg  
Method : OECD 402  
Parameter : LD50 ( XYLENE ; CAS No. : 1330-20-7 )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : 12126 mg/kg  
Parameter : LD50 ( ETHYL ACETATE ; CAS No. : 141-78-6 )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : 18000 mg/kg  
Parameter : LD50 ( ACETONE ; CAS No. : 67-64-1 )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : > 15800 mg/kg  
Parameter : LD50 ( HYDROCARBONS, C9-C10, N-ALKANES, ISO-ALKANES, CYCLICS, < 2% AROMATES )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : > 5000 mg/kg  
Method : OECD 402  
Parameter : LD50 ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : > 5000 mg/kg  
Parameter : LD50 ( BUTANONE ; CAS No. : 78-93-3 )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : > 2000 mg/kg  
Method : OECD 402  
Parameter : LD50 ( ETHANOL ; CAS No. : 64-17-5 )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : > 2000 mg/kg  
Method : OECD 402  
Parameter : LD50 ( 2-METHYLPROPAN-1-OL ; CAS No. : 78-83-1 )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : > 2000 mg/kg  
Method : OECD 402  
Parameter : LD50 ( BUTAN-1-OL ; CAS No. : 71-36-3 )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : 3400 mg/kg

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Parameter : LD50 ( TOLUENE ; CAS No. : 108-88-3 )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : 12124 mg/kg  
Parameter : LD50 ( METHANOL ; CAS No. : 67-56-1 )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : 15,8 g/kg

**Acute inhalation toxicity**

Parameter : LC50 ( 1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : 27,596 mg/l  
Exposure time : 6 h

Parameter : LC50 ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : 23,4 mg/l  
Exposure time : 4 h  
Method : OECD 403

Parameter : LC0 ( 2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6 )  
Exposure route : Inhalative (vapour)  
Species : Rat  
Effective dose : > 20 mg/l  
Exposure time : 6 h

Parameter : LC50 ( XYLENE ; CAS No. : 1330-20-7 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : 27123 mg/m<sup>3</sup>  
Exposure time : 4 h

Parameter : LD50 ( ETHYL ACETATE ; CAS No. : 141-78-6 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : 58 mg/l  
Exposure time : 8 h

Parameter : LC50 ( ACETONE ; CAS No. : 67-64-1 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : 76 mg/l  
Exposure time : 4 h

Parameter : LC50 ( HYDROCARBONS, C9-C10, N-ALKANES, ISO-ALKANES, CYCLICS, < 2% AROMATES )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : > 4951 mg/m<sup>3</sup>  
Exposure time : 4 h  
Method : OECD 403

Parameter : LC50 ( 2-METHYLPROPAN-1-OL ; CAS No. : 78-83-1 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : > 18,18 mg/l



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Exposure time : 6 h  
Parameter : LC50 ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : 30 mg/l  
Exposure time : 4 h  
Parameter : LC50 ( BUTANONE ; CAS No. : 78-93-3 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : 34 mg/l  
Exposure time : 4 h  
Parameter : LC50 ( ETHANOL ; CAS No. : 64-17-5 )  
Exposure route : Inhalation  
Species : Mouse  
Effective dose : > 20 mg/l  
Exposure time : 4 h  
Parameter : LC50 ( BUTAN-1-OL ; CAS No. : 71-36-3 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : 8000 ppm  
Parameter : LC50 ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : 47,5 mg/l  
Exposure time : 8 h  
Parameter : LC50 ( TOLUENE ; CAS No. : 108-88-3 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : 31 mg/l  
Exposure time : 4 h  
Method : OECD 403  
Parameter : LC50 ( METHANOL ; CAS No. : 67-56-1 )  
Exposure route : Inhalation  
Species : Practical experience/human evidence  
Effective dose : 64 g/kg

### Irritant and corrosive effects

#### Primary irritation to the skin

Parameter : Primary irritation to the skin ( ETHANOL ; CAS No. : 64-17-5 )  
Species : Rabbit  
Result : Not irritant  
Method : OECD 404  
Parameter : Primary irritation to the skin ( TOLUENE ; CAS No. : 108-88-3 )  
Species : Rabbit  
Result : Irritant  
Method : OECD 404

Causes skin irritation.

#### Irritation to eyes

Parameter : Irritation to eyes ( ETHANOL ; CAS No. : 64-17-5 )  
Species : Rabbit  
Result : irritant  
Method : OECD 405



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Parameter : Irritation to eyes ( TOLUENE ; CAS No. : 108-88-3 )  
Species : Rabbit  
Result : Not an irritant  
Method : OECD 405  
Causes serious eye damage.

### Sensitisation

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

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

#### Carcinogenicity

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

#### Germ cell mutagenicity

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

#### Reproductive toxicity

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

### STOT-single exposure

May cause respiratory irritation. May cause drowsiness or dizziness.

### STOT-repeated exposure

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

### Aspiration hazard

May be fatal if swallowed and enters airways.

### 11.2 Toxicokinetics, metabolism and distribution

There are no data available on the preparation/mixture itself.

### 11.3 Symptoms related to the physical, chemical and toxicological characteristics

There are no data available on the preparation/mixture itself.

### 11.4 Other adverse effects

Prolonged or repeated contact with skin or mucous membrane result in irritation symptoms such as redness, blistering, dermatitis, etc. Has degreasing effect on the skin.

### 11.5 Additional information

The product is classified and labelled according to EC directives or corresponding national laws. Classification according to Regulation (EC) No 1272/2008 [CLP] Toxicological data are not available.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity

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

Parameter : LC50 ( 1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2 )  
Species : Leuciscus idus (golden orfe)  
Effective dose : 6812 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  
Method : OECD 203  
Parameter : LC50 ( 2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6 )  
Species : Oncorhynchus mykiss (Rainbow trout)

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Effective dose :	134 mg/l
Exposure time :	96 h
Method :	OECD 203
Parameter :	LC50 ( XYLENE ; CAS No. : 1330-20-7 )
Species :	Oncorhynchus mykiss (Rainbow trout)
Effective dose :	7,6 mg/l
Exposure time :	96 h
Parameter :	LC50 ( ETHYL ACETATE ; CAS No. : 141-78-6 )
Species :	Pimephales promelas (fathead minnow)
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	230 mg/l
Exposure time :	96 h
Parameter :	LL50 ( HYDROCARBONS, C9, AROMATES )
Species :	Oncorhynchus mykiss (Rainbow trout)
Effective dose :	9,2 mg/l
Exposure time :	96 h
Parameter :	LC50 ( ACETONE ; CAS No. : 67-64-1 )
Species :	Oncorhynchus mykiss (Rainbow trout)
Evaluation parameter :	Süßwasser
Effective dose :	5540 mg/l
Exposure time :	96 h
Method :	statischer Test
Parameter :	LC50 ( ACETONE ; CAS No. : 67-64-1 )
Species :	Alburnus alburnus (alburnum)
Evaluation parameter :	Meerwasser
Effective dose :	11000 mg/l
Exposure time :	96 h
Method :	statischer Test
Parameter :	NOELR ( HYDROCARBONS, C9-C10, N-ALKANES, ISO-ALKANES, CYCLICS, < 2% AROMATES )
Species :	Oncorhynchus mykiss (Rainbow trout)
Effective dose :	10 - 30 mg/l
Exposure time :	96 h
Parameter :	LC50 ( PROPAN-2-OL ; CAS No. : 67-63-0 )
Species :	Pimephales promelas (fathead minnow)
Effective dose :	9640 mg/l
Exposure time :	96 h
Parameter :	LC50 ( 2-METHYLPROPAN-1-OL ; CAS No. : 78-83-1 )
Species :	Pimephales promelas (fathead minnow)
Effective dose :	1430 mg/l
Exposure time :	96 h
Parameter :	LC50 ( BUTANONE ; CAS No. : 78-93-3 )
Species :	Pimephales promelas (fathead minnow)
Effective dose :	2990 mg/l
Exposure time :	96 h
Method :	OECD 203
Parameter :	LC50 ( ETHANOL ; CAS No. : 64-17-5 )
Species :	Leuciscus idus (golden orfe)
Effective dose :	> 100 mg/l
Exposure time :	48 h
Method :	OECD 203

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Parameter : LC50 ( TOLUENE ; CAS No. : 108-88-3 )  
Species : Oncorhynchus kisutch (Lachs)  
Effective dose : 5,5 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 (roter Killifisch)  
Effective dose : 47,5 mg/l  
Exposure time : 14 d  
Method : OECD 204

Parameter : NOEC ( TOLUENE ; CAS No. : 108-88-3 )  
Species : Oncorhynchus kisutch (Lachs)  
Effective dose : 1,39 mg/l  
Exposure time : 40 d

**Acute (short-term) daphnia toxicity**

Parameter : EC50 ( 1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2 )  
Species : Daphnia magna (Big water flea)  
Effective dose : 23300 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

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

Method : Richtlinie 67/548/EWG, Anhang V, C.2.

Parameter : EC50 ( ETHYL ACETATE ; CAS No. : 141-78-6 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : 717 mg/l  
Exposure time : 48 h

Method : DIN 38412 / part 11

Parameter : EC50 ( XYLENE ; CAS No. : 1330-20-7 )  
Species : Daphnia magna (Big water flea)  
Effective dose : 3,82 mg/l  
Exposure time : 48 h

Parameter : EL50 ( HYDROCARBONS, C9, AROMATES )  
Species : Daphnia magna (Big water flea)  
Effective dose : 3,2 mg/l  
Exposure time : 48 h

Parameter : LC50 ( ACETONE ; CAS No. : 67-64-1 )  
Species : Daphnia pulex (water flea)  
Evaluation parameter : Süßwasser  
Effective dose : 8800 mg/l  
Exposure time : 48 h

Method : statischer Test

Parameter : LC50 ( ACETONE ; CAS No. : 67-64-1 )  
Species : Artemia salina  
Evaluation parameter : Meerwasser



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Effective dose : 2100 mg/l  
Exposure time : 24 h  
Method : statischer Test  
Parameter : NOELR ( HYDROCARBONS, C9-C10, N-ALKANES, ISO-ALKANES, CYCLICS, < 2% AROMATES )  
Species : Daphnia magna (Big water flea)  
Effective dose : 22 - 46 mg/l  
Exposure time : 48 h  
Parameter : EC50 ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Species : Daphnia magna (Big water flea)  
Effective dose : 13299 mg/l  
Exposure time : 48 h  
Parameter : EC50 ( 2-METHYLPROPAN-1-OL ; CAS No. : 78-83-1 )  
Species : Daphnia pulex (water flea)  
Effective dose : 1100 mg/l  
Exposure time : 48 h  
Parameter : EC50 ( BUTANONE ; CAS No. : 78-93-3 )  
Species : Daphnia magna (Big water flea)  
Effective dose : 308 mg/l  
Exposure time : 48 h  
Method : OECD 202  
Parameter : EC50 ( ETHANOL ; CAS No. : 64-17-5 )  
Species : Daphnia magna (Big water flea)  
Effective dose : > 100 mg/l  
Exposure time : 24 h  
Method : OECD 202  
Parameter : EC50 ( TOLUENE ; CAS No. : 108-88-3 )  
Species : Daphnia magna (Big water flea)  
Effective dose : 10 - 100 mg/l  
Exposure time : 96 h  
Parameter : LC50 ( TOLUENE ; CAS No. : 108-88-3 )  
Species : ceriodaphnia dubia  
Effective dose : 3,78 mg/l  
Exposure time : 48 h

**Chronic (long-term) daphnia toxicity**

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  
Method : OECD 202, Teil 2  
Parameter : NOEC ( ACETONE ; CAS No. : 67-64-1 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Süßwasser  
Effective dose : 2212 mg/l  
Exposure time : 28 d  
Parameter : NOEC ( 2-METHYLPROPAN-1-OL ; CAS No. : 78-83-1 )  
Species : Daphnia magna (Big water flea)  
Effective dose : 20 mg/l  
Exposure time : 21 d  
Parameter : NOEC ( TOLUENE ; CAS No. : 108-88-3 )  
Species : ceriodaphnia dubia



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Effective dose : 0,74 mg/l  
Exposure time : 7 d

**Acute (short-term) algae toxicity**

Parameter : EC50 ( 1-METHOXY-2-PROPANOL ; CAS No. : 107-98-2 )  
Species : Pseudokirchneriella subcapitata  
Effective dose : 1000 mg/l  
Exposure time : 7 d

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

Parameter : EC50 ( 2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6 )  
Species : Selenastrum capricornutum  
Effective dose : > 1000 mg/l  
Exposure time : 72 h  
Method : OECD 201

Parameter : EC50 ( XYLENE ; CAS No. : 1330-20-7 )  
Species : Pseudokirchneriella subcapitata  
Effective dose : 4,7 mg/l  
Exposure time : 72 h

Parameter : EC50 ( ETHYL ACETATE ; CAS No. : 141-78-6 )  
Species : Desmodesmus subspicatus  
Evaluation parameter : Acute (short-term) algae toxicity  
Effective dose : 3300 mg/l  
Exposure time : 48 h

Parameter : EL50 ( HYDROCARBONS, C9, AROMATES )  
Species : Pseudokirchneriella subcapitata  
Effective dose : 2,629 mg/l  
Exposure time : 72 h

Parameter : NOEC ( ACETONE ; CAS No. : 67-64-1 )  
Species : Microcystis aeruginosa  
Evaluation parameter : Süßwasser  
Effective dose : 530 mg/l  
Exposure time : 8 d  
Method : statischer Test

Parameter : NOEC ( ACETONE ; CAS No. : 67-64-1 )  
Species : Prorocentrum minimum  
Evaluation parameter : Meerwasser  
Effective dose : 430 mg/l  
Exposure time : 96 h

Parameter : NOELR ( HYDROCARBONS, C9-C10, N-ALKANES, ISO-ALKANES, CYCLICS, < 2% AROMATES )  
Species : Pseudokirchneriella subcapitata  
Effective dose : > 1000 mg/l  
Exposure time : 72 h

Parameter : EC50 ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Species : Scenedesmus subspicatus  
Effective dose : > 1000 mg/l  
Exposure time : 72 h

Parameter : EC50 ( 2-METHYLPROPAN-1-OL ; CAS No. : 78-83-1 )  
Species : Pseudokirchneriella subcapitata



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Evaluation parameter : Inhibition of biomass development  
Effective dose : 632 mg/l  
Exposure time : 72 h  
Method : OECD 201  
Parameter : EC50 ( BUTANONE ; CAS No. : 78-93-3 )  
Species : Pseudokirchneriella subcapitata  
Effective dose : 1972 mg/l  
Exposure time : 72 h  
Method : OECD 201  
Parameter : EC50 ( ETHANOL ; CAS No. : 64-17-5 )  
Species : Chlorella pyrenoidosa  
Effective dose : > 100 mg/l  
Method : OECD 201  
Parameter : EC50 ( 2-METHYLPROPAN-1-OL ; CAS No. : 78-83-1 )  
Species : Pseudokirchneriella subcapitata  
Evaluation parameter : Inhibition of growth rate  
Effective dose : 1799 mg/l  
Exposure time : 72 h  
Method : OECD 201  
Parameter : NOEC ( 2-METHYLPROPAN-1-OL ; CAS No. : 78-83-1 )  
Species : Pseudokirchneriella subcapitata  
Effective dose : 53 mg/l  
Exposure time : 72 h  
Method : OECD 201  
Parameter : EC50 ( TOLUENE ; CAS No. : 108-88-3 )  
Species : Chlorella vulgaris  
Effective dose : 134 mg/l  
Exposure time : 3 h

**Chronic (long-term) algae toxicity**

Parameter : NOEC ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )  
Species : Desmodesmus subspicatus  
Effective dose : 200 mg/l  
Exposure time : 72 h  
Parameter : NOEC ( ETHYL ACETATE ; CAS No. : 141-78-6 )  
Species : Desmodesmus subspicatus  
Evaluation parameter : Chronic (long-term) algae toxicity  
Effective dose : > 100 mg/l  
Exposure time : 72 h

**Bacteria toxicity**

Parameter : EC10 ( 2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6 )  
Species : Belebtschlamm  
Effective dose : > 1000 mg/l  
Exposure time : 0,5 h  
Method : OECD 209  
Parameter : EC50 ( XYLENE ; CAS No. : 1330-20-7 )  
Species : Belebtschlamm  
Effective dose : > 175 mg/l  
Parameter : EC3 ( ETHYL ACETATE ; CAS No. : 141-78-6 )  
Species : Pseudomonas putida  
Effective dose : 650 mg/l  
Exposure time : 16 h



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Parameter : EC12 ( ACETONE ; CAS No. : 67-64-1 )  
Species : Belebtschlamm  
Effective dose : 1000 mg/l  
Exposure time : 30 min  
Parameter : EC0 ( BUTANONE ; CAS No. : 78-93-3 )  
Species : Pseudomonas putida  
Effective dose : 1150 mg/l  
Exposure time : 16 h  
Method : DIN 38412 / part 8  
Parameter : EC10 ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Species : Pseudomonas putida  
Effective dose : 5175 mg/l  
Exposure time : 18 h  
Parameter : EC50 ( TOLUENE ; CAS No. : 108-88-3 )  
Species : Nitrosomonas sp  
Effective dose : 84 mg/l  
Exposure time : 24 h

### 12.2 Persistence and degradability

No information available.

### 12.3 Bioaccumulative potential

Parameter : Bioconcentration factor (BCF) ( XYLENE ; CAS No. : 1330-20-7 )  
Concentration : 25,9  
Parameter : Bioconcentration factor (BCF) ( TOLUENE ; CAS No. : 108-88-3 )  
Concentration : 90  
Evaluation : niedriges Bioakkumulationspotential  
Parameter : Partition coefficient n-octanol /water (log P O/W) ( ACETONE ; CAS No. : 67-64-1 )  
Concentration : < 1  
Evaluation : niedriges Bioakkumulationspotential  
Parameter : Partition coefficient n-octanol /water (log P O/W) ( BUTANONE ; CAS No. : 78-93-3 )  
Concentration : <= 4  
Evaluation : niedriges Bioakkumulationspotential  
Parameter : Partition coefficient n-octanol /water (log P O/W) ( ETHANOL ; CAS No. : 64-17-5 )  
Concentration : <= 4  
Evaluation : niedriges Bioakkumulationspotential  
Parameter : Partition coefficient n-octanol /water (log P O/W) ( TOLUENE ; CAS No. : 108-88-3 )  
Concentration : 2,65  
Parameter : Log KOC ( TOLUENE ; CAS No. : 108-88-3 )  
Concentration : 2,73

### 12.4 Mobility in soil

No information available.

### 12.5 Results of PBT and vPvB assessment

No information available.

### 12.6 Other adverse effects

No information available.

### 12.7 Additional ecotoxicological information

None

## SECTION 13: Disposal considerations



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Dispose according to legislation.

**13.1 Waste treatment methods**

**Product/Packaging disposal**

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

**Waste code product**

Waste code (91/689/EEC) : 07 01 04\*

**13.2 Additional information**

None

**SECTION 14: Transport information**

**14.1 UN number**

UN 1263

**14.2 UN proper shipping name**

**Land transport (ADR/RID)**

PAINT RELATED MATERIAL

**Sea transport (IMDG)**

PAINT RELATED MATERIAL

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

PAINT RELATED MATERIAL

**14.3 Transport hazard class(es)**

**Land transport (ADR/RID)**

**Class(es) :** 3  
**Classification code :** F1  
**Hazard identification number (Kemler No.) :** 33  
**Tunnel restriction code :** D/E  
**Special provisions :** 640D · LQ 5 I · E 2  
**Hazard label(s) :** 3

**Sea transport (IMDG)**

**Class(es) :** 3  
**EmS-No. :** F-E / ~~S-E~~  
**Special provisions :** LQ 5 I · E 2  
**Hazard label(s) :** 3

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

**Class(es) :** 3  
**Special provisions :** E 2  
**Hazard label(s) :** 3

**14.4 Packing group**

II

**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 classified for this transport way.



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### SECTION 15: Regulatory information

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

##### National regulations

##### Störfallverordnung

##### For substances contained in the product

METHANOL ; CAS No. : 67-56-1 ; Category : 26

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

Weight fraction (Number 5.2.5. I) : < 5 %

##### Water hazard class (WGK)

Class : 2 (Hazardous to water) Classification according to VwVwS

#### 15.2 Chemical safety assessment

No information available.

### SECTION 16: Other information

#### 16.1 Indication of changes

02. Classification of the substance or mixture · 02. Labelling according to Regulation (EC) No. 1272/2008 [CLP] · 03. Hazardous ingredients · 08. Occupational exposure limit values · 11. Primary irritation to the skin · 11. Irritation to eyes · 11. STOT-single exposure · 11. Aspiration hazard

#### 16.2 Abbreviations and acronyms

None

#### 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]

No information available.

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

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H370	Causes damage to organs.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.



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H412 Harmful to aquatic life with long lasting effects.

**16.6 Training advice**

None

**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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