

# Safety Data Sheet

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

**Trade name :** SWIN 60-101-6  
universal thinner normal  
**Revision date :** 04.03.2020  
**Print date :** 04.03.2020

**Version (Revision) :** 7.0.0 (6.0.0)

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

#### 1.1 Product identifier

SWIN 60-101-6  
universal thinner normal (24799)

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

##### Relevant identified uses

Coatings and paints, thinners, paint removers. Washing and cleaning products (including solvent based products)

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

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

SWIN Lacksysteme  
Inh. Ludwig Schöne e.K

**Street :** Boschweg 5

**Postal code/city :** D-48351 Everswinkel

**Telephone :** +49(0)2582/67613

**Telefax :** +49(0)258267677

**Information contact :** info@swinsysteme.de

#### 1.4 Emergency telephone number

Tel: +49 (0) 30 / 19 24 0 Giftnotrufzentrale Berlin

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

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

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.

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.

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



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

##### Signal word

Danger

##### Hazard components for labelling

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

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

XYLENE ; CAS No. : 1330-20-7

ETHYLBENZENE ; CAS No. : 100-41-4

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### Hazard statements

H226 Flammable liquid and vapour.  
H304 May be fatal if swallowed and enters airways.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.  
H336 May cause drowsiness or dizziness.

### Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P260 Do not breathe vapours/spray.  
P310 Immediately call a POISON CENTER/doctor.  
P331 Do NOT induce vomiting.  
P403+P231 Store in a well-ventilated place. Keep container tightly closed.  
P501 Dispose of contents/container to disposal.

### Additional information

P240 - Ground and bond container and receiving equipment. P241 - Use explosion-proof electrical/ventilating/lighting equipment. P242 - Use non-sparking tools. P243 - Take action to prevent static discharges. P302+P352 - IF ON SKIN: Wash with plenty of water. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P362+P364 - Take off contaminated clothing and wash it before reuse.

### 2.3 Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous ingredients

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

Weight fraction :  $\geq 25 - < 50$  %  
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 STOT SE 3 ; H336  
Substance with a Community workplace exposure limit

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

Weight fraction :  $\geq 25 - < 50$  %  
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 STOT SE 3 ; H336

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

Weight fraction :  $\geq 20 - < 25$  %  
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

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

Weight fraction :  $\geq 5 - < 10$  %  
Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Asp. Tox. 1 ; H304 STOT RE 2 ; H373 Acute Tox. 4 ; H332

2-METHOXYPROPYL ACETATE ; EC No. : 274-724-2; CAS No. : 70657-70-4

Weight fraction :  $< 0,3$  %  
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Repr. 1B ; H360D STOT SE 3 ; H335

#### Additional information

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

## SECTION 4: First aid measures

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### 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. Observe risk of aspiration if vomiting occurs. If unconscious place in recovery position and seek medical advice. Remove contaminated, saturated clothing immediately.

#### Following inhalation

Inhalation of vapours or spray/mists

Consult a doctor immediately in the case of inhaling spray mist and show him packing or label. Provide fresh air.

#### In case of skin contact

After contact with skin, wash immediately with plenty of water and soap.

#### After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

#### After ingestion

Do NOT induce vomiting. Call a physician immediately.

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

Dizziness Headache Nausea Impairment of vision 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 Extinguishing powder Carbon dioxide (CO<sub>2</sub>) Water spray

#### Unsuitable extinguishing media

Full water jet

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

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

### 5.3 Advice for firefighters

Do not inhale explosion and combustion gases.

Special protective equipment for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

### 5.4 Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Move undamaged containers from immediate hazard area if it can be done safely. Use water spray jet to protect personnel and to cool endangered containers.

## SECTION 6: Accidental release measures

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

See protective measures under point 7 and 8.

#### For non-emergency personnel

Use personal protection equipment. Remove all sources of ignition. Wear breathing apparatus if exposed to vapours/dusts/aerosols.

#### For emergency responders

Use appropriate respiratory protection. Remove persons to safety. Prevent spread over a wide area (e.g. by containment or oil barriers).

### 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. Retain contaminated washing water and dispose it.

### 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

Safe handling: see section 7  
Disposal: see section 13  
Personal protection equipment: see section 8

## SECTION 7: Handling and storage



### 7.1 Precautions for safe handling

Use explosion-proof machinery, apparatus, ventilation facilities, tools etc. 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 must be ventilated by technical means. Only use the material in places where open light, fire and other flammable sources can be kept away. Wear personal protection equipment (refer to section 8). Avoid: generation/formation of aerosols

It is recommended to design all work processes always so that the following is excluded: Inhalation Skin contact Eye contact

#### Protective measures

All work processes must always be designed so that the following is excluded: Inhalation of vapours or spray/mists  
Skin contact Eye contact 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 must 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 (TRGS 510) :** 3

#### Further information on storage conditions

Keep container tightly closed. Keep/Store only in original container.

### 7.3 Specific end use(s)

Observe technical data sheet.

## 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>

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Peak limitation : 1(I)  
Remark : Y  
Version : 07.06.2018  
Limit value type (country of origin) : STEL ( EC )  
Limit value : 100 ppm / 550 mg/m<sup>3</sup>  
Remark : H  
Version : 31.01.2018  
Limit value type (country of origin) : TWA ( EC )  
Limit value : 50 ppm / 275 mg/m<sup>3</sup>  
Remark : H  
Version : 31.01.2018  
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 : 07.06.2018  
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 : 07.06.2018  
Limit value type (country of origin) : STEL ( EC )  
Limit value : 100 ppm / 442 mg/m<sup>3</sup>  
Remark : H  
Version : 31.01.2018  
Limit value type (country of origin) : TWA ( EC )  
Limit value : 50 ppm / 221 mg/m<sup>3</sup>  
Remark : H  
Version : 31.01.2018  
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  
Version : 07.06.2018  
Limit value type (country of origin) : STEL ( EC )  
Limit value : 200 ppm / 884 mg/m<sup>3</sup>  
Remark : H  
Version : 31.01.2018  
Limit value type (country of origin) : TWA ( EC )  
Limit value : 100 ppm / 442 mg/m<sup>3</sup>  
Remark : H  
Version : 31.01.2018  
2-METHOXYPROPYL ACETATE ; CAS No. : 70657-70-4  
Limit value type (country of origin) : TRGS 900 ( D )  
Limit value : 5 ppm / 28 mg/m<sup>3</sup>  
Peak limitation : 8(II)  
Remark : H, Z  
Version : 07.06.2018

### Biological limit values

XYLENE ; CAS No. : 1330-20-7  
Limit value type (country of origin) : TRGS 903 ( D )

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Parameter : Methylhippuric acid / Urine (U) / End of exposure or end of shift  
Limit value : 2000 mg/l  
Version : 07.06.2018

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 : 07.06.2018

### DNEL/DMEL and PNEC values

#### DNEL/DMEL

Limit value type : DNEL worker (local) ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )  
Exposure route : Inhalation  
Exposure frequency : Short-term (acute)  
Limit value : 600 mg/m<sup>3</sup>

Limit value type : DNEL worker (local) ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 300 mg/m<sup>3</sup>

Limit value type : DNEL worker (systemic) ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )  
Exposure route : Inhalation  
Exposure frequency : Short-term (acute)  
Limit value : 600 mg/m<sup>3</sup>

Limit value type : DNEL worker (systemic) ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 300 mg/m<sup>3</sup>

Limit value type : DNEL worker (systemic) ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 11 mg/kg

Limit value type : DNEL worker (systemic) ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )  
Exposure route : Dermal  
Exposure frequency : Short-term (acute)  
Limit value : 11 mg/kg

Limit value type : DNEL worker (local) ( XYLENE ; CAS No. : 1330-20-7 )  
Exposure route : Inhalation  
Exposure frequency : Short-term (acute)  
Limit value : 289 mg/m<sup>3</sup>

Limit value type : DNEL worker (local) ( XYLENE ; CAS No. : 1330-20-7 )  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 221 mg/m<sup>3</sup>

Limit value type : DNEL worker (systemic) ( XYLENE ; CAS No. : 1330-20-7 )  
Exposure route : Inhalation  
Exposure frequency : Short-term (acute)  
Limit value : 442 mg/m<sup>3</sup>

Limit value type : DNEL worker (systemic) ( XYLENE ; CAS No. : 1330-20-7 )  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 211 mg/m<sup>3</sup>

Limit value type : DNEL worker (systemic) ( XYLENE ; CAS No. : 1330-20-7 )  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 180 mg/kg

Limit value type : DNEL worker (systemic) ( ETHYLBENZENE ; CAS No. : 100-41-4 )

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Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 77 mg/m<sup>3</sup>

### PNEC

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, 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 (Soil) ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )  
Limit value : 0,0903 mg/kg  
Limit value type : PNEC soil, marine water ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )  
Limit value : 0,0981 mg/kg  
Limit value type : PNEC (Sewage treatment plant) ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )  
Limit value : 35,6 mg/l  
Limit value type : PNEC (Aquatic, freshwater) ( XYLENE ; CAS No. : 1330-20-7 )  
Limit value : 0,327 mg/l  
Limit value type : PNEC (Aquatic, marine water) ( XYLENE ; CAS No. : 1330-20-7 )  
Limit value : 0,327 mg/l  
Limit value type : PNEC (Sediment, freshwater) ( XYLENE ; CAS No. : 1330-20-7 )  
Limit value : 12,46 mg/kg  
Limit value type : PNEC (Sediment, marine water) ( XYLENE ; CAS No. : 1330-20-7 )  
Limit value : 12,46 mg/kg  
Limit value type : PNEC (Sewage treatment plant) ( XYLENE ; CAS No. : 1330-20-7 )  
Limit value : 6,58 mg/l  
Limit value type : PNEC (Aquatic, freshwater) ( ETHYLBENZENE ; CAS No. : 100-41-4 )  
Limit value : 0,1 mg/l  
Limit value type : PNEC (Aquatic, marine water) ( ETHYLBENZENE ; CAS No. : 100-41-4 )  
Limit value : 0,01 mg/l  
Limit value type : PNEC (Sediment, freshwater) ( ETHYLBENZENE ; CAS No. : 100-41-4 )  
Limit value : 13,7 mg/kg  
Limit value type : PNEC (Sediment, marine water) ( ETHYLBENZENE ; CAS No. : 100-41-4 )  
Limit value : 1,37 mg/kg  
Limit value type : PNEC (Soil) ( ETHYLBENZENE ; CAS No. : 100-41-4 )  
Limit value : 2,68 mg/kg  
Limit value type : PNEC (Sewage treatment plant) ( ETHYLBENZENE ; CAS No. : 100-41-4 )  
Limit value : 9,6 mg/l

## 8.2 Exposure controls



### Personal protection equipment

#### Eye/face protection

Eye glasses with side protection

#### Skin protection

##### Hand protection

**Suitable material :** Butyl caoutchouc (butyl rubber)

Thickness of the glove material : 0.7 mm

Breakthrough time (maximum wearing time)  $10 < x < 30$  min.

Recommended glove articles EN ISO 374

**Remark :** Check leak tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean

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them before taking off and air them well. 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

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

### Respiratory protection

Appropriate engineering controls

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

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

### Suitable respiratory protection apparatus

Filtering device (full mask or mouthpiece) with filter:

Type : A

### 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

**Physical state :** Liquid

**Odour :** characteristic

### Appearance

**Colour :** colourless

### Odour threshold

No data available

### Safety relevant basis data

<b>Melting point/melting range :</b>		No data available	
<b>Initial boiling point and boiling range :</b>	( 1013 hPa )	124 - 146 °C	
<b>Decomposition temperature :</b>		No data available	
<b>Flash point :</b>		27 °C	DIN 51755 part 1
<b>Ignition temperature :</b>		330 °C	DIN 51794
<b>Lower explosion limit :</b>		1,1 Vol-%	
<b>Upper explosion limit :</b>		10,8 Vol-%	
<b>Vapour pressure :</b>	( 20 °C )	9,6 hPa	
<b>Density :</b>	( 20 °C )	0,906 g/cm <sup>3</sup>	DIN 51757
<b>Water solubility :</b>	( 20 °C )	partially miscible	
<b>pH-value:</b>	( 20 °C )	not applicable	
<b>log P O/W :</b>		No data available	
<b>Cinematic viscosity :</b>	( 40 °C )	No data available	
<b>Relative vapour density :</b>	( 20 °C )	No data available	
<b>Vapourisation rate :</b>		No data available	
<b>Maximum VOC content (EC) :</b>		100 Wt %	1999/13/EC
<b>VOC-value :</b>		906 g/l	2004/42/EC
<b>Flammable solids :</b>		Not fulfilling criteria for hazard class "Flammable Solids".	
<b>Flammable gases :</b>		Not applicable.	
<b>Oxidising liquids :</b>		No data available.	
<b>Explosive properties :</b>		Not determined.	

### 9.2 Other information

None



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### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

Information is given in subsection 10.3.

#### 10.2 Chemical stability

The product is stable under storage at normal ambient temperatures.

#### 10.3 Possibility of hazardous reactions

In use, may form flammable/explosive vapour-air mixture.

#### 10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

#### 10.5 Incompatible materials

Exothermic reaction with:  
Acid , 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 :	ATEmix calculated
Exposure route :	Oral
Effective dose :	not relevant
Parameter :	LD50 ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )
Exposure route :	Oral
Species :	Rat
Effective dose :	14 g/kg
Parameter :	LD50 ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )
Exposure route :	Oral
Species :	Rabbit
Effective dose :	7,4 g/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-METHOXYPROPYL ACETATE ; CAS No. : 70657-70-4 )
Exposure route :	Oral
Species :	Rat
Effective dose :	8500 mg/kg

##### Acute dermal toxicity

Parameter :	ATEmix calculated
Exposure route :	Dermal
Effective dose :	4946 mg/kg
Parameter :	LD50 ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )
Exposure route :	Dermal

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Species : Rabbit  
Effective dose : > 14112 mg/kg  
Parameter : LD50 ( XYLENE ; CAS No. : 1330-20-7 )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : 1100 mg/kg  
Parameter : LD50 ( ETHYLBENZENE ; CAS No. : 100-41-4 )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : 12126 mg/kg  
Parameter : ATE ( XYLENE ; CAS No. : 1330-20-7 )  
Exposure route : Dermal  
Effective dose : 1100 mg/kg

### Acute inhalation toxicity

Parameter : ATEmix calculated  
Exposure route : Inhalation (vapour)  
Effective dose : 37,1 mg/l  
Parameter : LC50 ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )  
Exposure route : Inhalation (vapour)  
Species : Rat  
Effective dose : 21,1 mg/l  
Exposure time : 4 h  
Method : OECD 403  
Parameter : LC50 ( XYLENE ; CAS No. : 1330-20-7 )  
Exposure route : Inhalation (vapour)  
Species : Rat  
Effective dose : 11 mg/l  
Exposure time : 4 h  
Parameter : LC50 ( ETHYLBENZENE ; CAS No. : 100-41-4 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : 11 mg/l  
Exposure time : 4 h  
Parameter : LC50 ( 2-METHOXYPROPYL ACETATE ; CAS No. : 70657-70-4 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : 23,88 mg/l

### Irritant and corrosive effects

#### Primary irritation to the skin

Causes skin irritation.

#### Irritation to eyes

Causes serious eye irritation.

### 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.

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### STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

### Aspiration hazard

May be fatal if swallowed and enters airways.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity

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

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

Parameter : LC50 ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )  
Species : Pimephales promelas (fathead minnow)  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : 18 mg/l  
Exposure time : 96 h  
Method : OECD 203

Parameter : LC50 ( XYLENE ; CAS No. : 1330-20-7 )  
Species : Oncorhynchus mykiss (Rainbow trout)  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : 2,6 mg/l  
Exposure time : 96 h  
Method : OECD 203

Parameter : LC50 ( ETHYLBENZENE ; CAS No. : 100-41-4 )  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : 6,4 mg/l  
Exposure time : 48 h

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

Parameter : Chronic (long-term) fish toxicity ( XYLENE ; CAS No. : 1330-20-7 )  
Species : Oncorhynchus mykiss (Rainbow trout)  
Evaluation parameter : Chronic (long-term) fish toxicity  
Effective dose : > 1,3 mg/l  
Exposure time : 56 Day(s)

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

Parameter : EC50 ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : 44 mg/l  
Exposure time : 48 h  
Method : OECD 202

Parameter : LC50 ( XYLENE ; CAS No. : 1330-20-7 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : 1 mg/l  
Exposure time : 24 h  
Method : OECD 202

Parameter : EC50 ( ETHYLBENZENE ; CAS No. : 100-41-4 )  
Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : 2,4 mg/l  
Exposure time : 48 h

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

Parameter : EC50 ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Chronic (long-term) daphnia toxicity

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Effective dose : 34,2 mg/l  
Exposure time : 21 Day(s)  
Method : OECD 211  
Parameter : NOAEC ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Chronic (long-term) daphnia toxicity  
Effective dose : 23,2 mg/l  
Exposure time : 21 Day(s)  
Method : OECD 211  
Parameter : NOEC ( XYLENE ; CAS No. : 1330-20-7 )  
Species : Daphnia pulex (water flea)  
Evaluation parameter : Chronic (long-term) daphnia toxicity  
Effective dose : 1,17 mg/l  
Exposure time : 7 Day(s)  
Parameter : NOEC ( ETHYLBENZENE ; CAS No. : 100-41-4 )  
Species : Daphnia pulex (water flea)  
Evaluation parameter : Chronic (long-term) daphnia toxicity  
Effective dose : 0,96 mg/l  
Exposure time : 7 Day(s)

### Acute (short-term) algae toxicity

Parameter : EC50 ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )  
Species : Selenastrum capricornutum  
Evaluation parameter : Acute (short-term) algae toxicity  
Effective dose : 397 mg/l  
Exposure time : 72 h  
Method : OECD 201  
Parameter : EC50 ( XYLENE ; CAS No. : 1330-20-7 )  
Species : Selenastrum capricornutum  
Evaluation parameter : Acute (short-term) algae toxicity  
Effective dose : 2,2 mg/l  
Exposure time : 73 h  
Method : OECD 201

### Chronic (long-term) algae toxicity

Parameter : NOEC ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )  
Species : Selenastrum capricornutum  
Evaluation parameter : Chronic (long-term) algae toxicity  
Effective dose : 196 mg/l  
Method : OECD 201

### Toxicity to other aquatic plants/organisms

Parameter : EC50 ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )  
Species : Tetrahymena pyriformis  
Evaluation parameter : Acute (short-term) toxicity  
Effective dose : 356 mg/l  
Exposure time : 40 h

### Bacteria toxicity

Parameter : Bacteria toxicity ( XYLENE ; CAS No. : 1330-20-7 )  
Effective dose : 16 mg/l  
Exposure time : 28 Day(s)  
Method : OECD F

## 12.2 Persistence and degradability

### Biodegradation

Parameter : BOD (% of ThOD) ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )  
Inoculum : Degree of elimination  
Evaluation parameter : Aerobic  
Effective dose : 80 %

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Exposure time : 5 Day(s)  
Evaluation : Readily biodegradable (according to OECD criteria).  
Method : OECD 301D  
Parameter : Biodegradation ( XYLENE ; CAS No. : 1330-20-7 )  
Inoculum : Biodegradation  
Effective dose : 90 %  
Exposure time : 28 Day(s)  
Evaluation : Readily biodegradable (according to OECD criteria).  
Method : OECD 301F  
Parameter : Biodegradation ( ETHYLBENZENE ; CAS No. : 100-41-4 )  
Inoculum : Biodegradation  
Effective dose : 90 %  
Exposure time : 28 Day(s)  
Evaluation : Readily biodegradable (according to OECD criteria).  
Method : OECD 301F

### 12.3 Bioaccumulative potential

No information available.

### 12.4 Mobility in soil

No information available.

### 12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

### 12.6 Other adverse effects

No information available.

### 12.7 Additional ecotoxicological information

None

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Dispose according to legislation. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. Contaminated packages must be completely emptied and can be re-used following proper cleaning. Packing which cannot be properly cleaned must be disposed of.

## 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.) :** 30  
**Tunnel restriction code :** D/E  
**Special provisions :** LQ 5 I · E 1

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Hazard label(s) : 3

**Sea transport (IMDG)**

Class(es) : 3

EmS-No. : F-E / S-E

Special provisions : LQ 5 | 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 applicable

## SECTION 15: Regulatory information

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

#### EU legislation

##### Authorisations and/or restrictions on use

##### Restrictions on use according to Regulation (EC) No. 1907/2006 (REACH)

Use restriction according to REACH annex XVII, no. : 3, 30, 40

#### National regulations

##### Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

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

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

##### Water hazard class (WGK)

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

### 15.2 Chemical safety assessment

For this substance / mixture a chemical safety assessment has not been carried out.

## SECTION 16: Other information

### 16.1 Indication of changes

14. UN proper shipping name - Land transport (ADR/RID) · 14. UN proper shipping name - Sea transport (IMDG) · 14. UN proper shipping name - Air transport (ICAO-TI / IATA-DGR) · 14. Transport hazard class(es) - Land transport (ADR/RID) · 14. Transport hazard class(es) - Sea transport (IMDG) · 14. Transport hazard class(es) - Air transport (ICAO-TI / IATA-DGR)

### 16.2 Abbreviations and acronyms

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route  
AGW = Occupational Exposure Limits

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ATE = Acute Toxicity Estimates  
AwSV = Ordinance on facilities for the handling of substances hazardous to water  
DMEL = Derived Minimal Effect Levels  
DNEL = Derived No Effect Level  
ECx = effective concentration  
H (8.1) = hautresorptiv (= absorbable through skin contact)  
IATA = International Air Transport Association  
ICAO = International Civil Aviation Organization  
IMDG = International Maritime Code for Dangerous Goods  
LCx/LDx/LLx = Lethal Concentration/Dose/Loading for x % of a population of test organisms  
MARPOL = International Convention for the Prevention of Marine Pollution from Ships  
NOAEC/NOAEL = No Observed Adverse Effect Concentration/Level  
NOEC/NOEL = No Observed Effect Concentration/Level  
OECD = Organisation for Economic Co-operation and Development  
PBT = Persistent, bioaccumulative and toxic  
PNEC = Predicted No Effect Concentration  
RID = Règlement concernant le transport international ferroviaire des marchandises dangereuses  
RCP = reciprocal calculation procedure  
S(a/h/ah) (8.1) = risk of sensitisation (of the respiratory tract/of the skin/of the respiratory tract and the skin)  
SVHC = Substances of Very high Concern  
STEL = Short-Time-Exposure Limit  
TRGS = Technical rules for hazardous substances  
TWA = Time Weighted Average  
VOC = volatile organic compounds  
vPvB = very persistent and very bioaccumulative  
VwVwS = Administrative regulation of substances hazardous to water  
WGK = water hazard class acc. ordinance on facilities for handling substances that are hazardous to water (AwSV)  
Y (8.1) = No risk of fetal damage will have to be feared, if the occupational exposure limit values (AGW) and the biological limit values (BGW) are observed.  
Z (8.1) = The risk of fetal damage must be feared, even if the occupational exposure limit values (AGW) and the biological limit values (BGW) are observed.

### 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 classification for health hazards, physicochemical hazards and environmental hazards were derived from a combination of calculation methods and, if available, test data.

### 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.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H360D	May damage the unborn child.
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

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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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