

# Safety Data Sheet

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

**Trade name :** SWIN 60-102-6  
universal thinner short  
**Revision date :** 15.08.2017  
**Print date :** 15.08.2017

**Version (Revision) :** 3.0.0 (2.0.0)

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

#### 1.1 Product identifier

SWIN 60-102-6  
universal thinner short (12739)

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

##### Relevant identified uses

Coatings and paints, thinners, paint removers

#### 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 Giftzentrale Berlin

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

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

#### 2.2 Label elements

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

###### Hazard pictograms



Flame (GHS02) · Exclamation mark (GHS07)

###### Signal word

Warning

###### Hazard components for labelling

ISOBUTYL ACETATE ; CAS No. : 110-19-0

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

4-METHYLPENTAN-2-ONE ; CAS No. : 108-10-1

XYLENE ; CAS No. : 1330-20-7

###### Hazard statements

H226 Flammable liquid and vapour.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

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H336 May cause drowsiness or dizziness.

### Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P370+P378 In case of fire: Use foam to extinguish.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P501 Dispose of contents/container to disposal.

### 2.3 Other hazards

Results of PBT and vPvB assessment :

PBT: No data available

vPvB: No data available

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous ingredients

ISOBUTYL ACETATE ; REACH registration No. : 01-2119488971-22 ; EC No. : 203-745-1; CAS No. : 110-19-0

Weight fraction :  $\geq 25 - < 50$  %

Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 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 :  $\geq 20 - < 25$  %

Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 STOT SE 3 ; H336

4-METHYLPENTAN-2-ONE ; REACH registration No. : 01-2119473980-30 ; EC No. : 203-550-1; CAS No. : 108-10-1

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

Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Acute Tox. 4 ; H332 Eye Irrit. 2 ; H319 STOT SE 3 ; H335

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

Weight fraction :  $\geq 10 - < 25$  %

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 :  $\geq 5 - < 10$  %

Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Asp. Tox. 1 ; H304 STOT RE 2 ; H373 Acute Tox. 4 ; H312  
Acute Tox. 4 ; H332 Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319 STOT SE 3 ; H335

#### Additional information

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

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

In 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

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

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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

High power 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

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

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

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### 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 should 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

#### 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

ISOBUTYL ACETATE ; CAS No. : 110-19-0

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

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

4-METHYLPENTAN-2-ONE ; CAS No. : 108-10-1

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

Limit value : 20 ppm / 83 mg/m<sup>3</sup>

Peak limitation : 2(I)

Remark : H,Y

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Version : 04.11.2017  
Limit value type (country of origin) : STEL ( EC )  
Limit value : 50 ppm / 208 mg/m<sup>3</sup>  
Version : 08.06.2000  
Limit value type (country of origin) : TWA ( EC )  
Limit value : 20 ppm / 83 mg/m<sup>3</sup>  
Version : 08.06.2000  
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

### Biological limit values

4-METHYLPENTAN-2-ONE ; CAS No. : 108-10-1  
Limit value type (country of origin) : TRGS 903 ( D )  
Parameter : 4-Methylpentane-2-on / Urine (U) / End of exposure or end of shift  
Limit value : 0,7 mg/l  
Version : 01.05.2015  
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

### DNEL/DMEL and PNEC values

#### DNEL/DMEL

Limit value type : DNEL worker (local) ( ISOBUTYL ACETATE ; CAS No. : 110-19-0 )

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Exposure route : Inhalation  
Exposure frequency : Short-term (acute)  
Limit value : 960 mg/m<sup>3</sup>  
Limit value type : DNEL worker (local) ( ISOBUTYL ACETATE ; CAS No. : 110-19-0 )

Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 480 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic) ( ISOBUTYL ACETATE ; CAS No. : 110-19-0 )

Exposure route : Inhalation  
Exposure frequency : Short-term (acute)  
Limit value : 960 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic) ( ISOBUTYL ACETATE ; CAS No. : 110-19-0 )

Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 480 mg/m<sup>3</sup>  
Limit value type : DNEL worker (local) ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )

Exposure route : Inhalation  
Exposure frequency : Short-term (acute)  
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 : Long-term  
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 : Short-term (acute)  
Limit value : 960 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 : 480 mg/m<sup>3</sup>  
Limit value type : DNEL worker (local) ( 4-METHYLPENTAN-2-ONE ; CAS No. : 108-10-1 )

Exposure route : Inhalation  
Exposure frequency : Short-term (acute)  
Limit value : 208 mg/m<sup>3</sup>  
Limit value type : DNEL worker (local) ( 4-METHYLPENTAN-2-ONE ; CAS No. : 108-10-1 )

Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 83 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic) ( 4-METHYLPENTAN-2-ONE ; CAS No. : 108-10-1 )

Exposure route : Inhalation  
Exposure frequency : Short-term (acute)  
Limit value : 208 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic) ( 4-METHYLPENTAN-2-ONE ; CAS No. : 108-10-1 )

Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 11,8 mg/kg  
Limit value type : DNEL worker (systemic) ( 4-METHYLPENTAN-2-ONE ; CAS No. : 108-10-1 )

Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 83 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic) ( 2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6 )

Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 275 mg/m<sup>3</sup>

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

Exposure route : Dermal

Exposure frequency : Long-term

Limit value : 153,5 mg/kg

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

Exposure route : Inhalation

Exposure frequency : Long-term

Limit value : 77 mg/m<sup>3</sup>

Limit value type : DNEL worker (systemic) ( XYLENE ; CAS No. : 1330-20-7 )

Exposure route : Dermal

Exposure frequency : Long-term

Limit value : 180 mg/kg

### PNEC

Limit value type : PNEC aquatic, freshwater ( ISOBUTYL ACETATE ; CAS No. : 110-19-0 )

Limit value : 0,17 mg/l

Limit value type : PNEC aquatic, marine water ( ISOBUTYL ACETATE ; CAS No. : 110-19-0 )

Limit value : 0,017 mg/l

Limit value type : PNEC sediment, freshwater ( ISOBUTYL ACETATE ; CAS No. : 110-19-0 )

Limit value : 0,877 mg/kg

Limit value type : PNEC sediment, marine water ( ISOBUTYL ACETATE ; CAS No. : 110-19-0 )

Limit value : 0,0877 mg/kg

Limit value type : PNEC sewage treatment plant (STP) ( ISOBUTYL ACETATE ; CAS No. : 110-19-0 )

Limit value : 200 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, 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, marine water ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )

Limit value : 0,0981 mg/kg

Limit value type : PNEC sewage treatment plant (STP) ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )

Limit value : 35,6 mg/l

Limit value type : PNEC aquatic, freshwater ( 4-METHYLPENTAN-2-ONE ; CAS No. : 108-10-1 )

Limit value : 0,6 mg/l

Limit value type : PNEC aquatic, marine water ( 4-METHYLPENTAN-2-ONE ; CAS No. : 108-10-1 )

Limit value : 0,06 mg/l

Limit value type : PNEC sediment, freshwater ( 4-METHYLPENTAN-2-ONE ; CAS No. : 108-10-1 )

Limit value : 8,27 mg/kg

Limit value type : PNEC sediment, marine water ( 4-METHYLPENTAN-2-ONE ; CAS No. : 108-10-1 )

Limit value : 0,83 mg/kg

Limit value type : PNEC sewage treatment plant (STP) ( 4-METHYLPENTAN-2-ONE ; CAS No. : 108-10-1 )

Limit value : 27,5 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, marine water ( 2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-

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Limit value : 65-6 )  
Limit value type : 0,0635 mg/l  
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. : 108-65-6 )

Limit value : 0,329 mg/kg  
Limit value type : PNEC sewage treatment plant (STP) ( 2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6 )

Limit value : 100 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 (STP) ( XYLENE ; CAS No. : 1330-20-7 )

Limit value : 6,58 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) : 480 min

Recommended glove articles DIN EN 374

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

Filter type: A



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### 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

**Melting point/melting range :** No data available

**Initial boiling point and boiling range :** ( 1013 hPa ) 114 - 146 °C

**Decomposition temperature :** No data available

**Flash point :** 23 °C DIN 51755 part 1

**Ignition temperature :** 330 °C DIN 51794

**Lower explosion limit :** 1,1 Vol-%

**Upper explosion limit :** 10,8 Vol-%

**Vapour pressure :** ( 20 °C ) 20 hPa

**Density :** ( 20 °C ) 0,874 g/cm<sup>3</sup> DIN 51757

**Water solubility :** ( 20 °C ) partially miscible

**pH-value:** ( 20 °C ) not applicable

**log P O/W :** No data available

**Cinematic viscosity :** ( 40 °C ) No data available

**Relative vapour density :** ( 20 °C ) No data available

**Vapourisation rate :** No data available

**Maximum VOC content (EC) :** 100 Wt % 1999/13/EC

**VOC-value :** 874 g/l 2004/42/EC

**Oxidising liquids :** No data available.

**Explosive properties :** Not determined.

### 9.2 Other information

None

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No information available.

### 10.2 Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3 Possibility of hazardous reactions

No information available.

### 10.4 Conditions to avoid

No information available.

### 10.5 Incompatible materials

Exothermic reaction with:  
Alkali (lye). Acid Oxidising agent, strong.

### 10.6 Hazardous decomposition products

Gases/vapours, combustible

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### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

##### Acute effects

###### Acute oral toxicity

Parameter : ATEmix calculated  
Exposure route : Oral  
Effective dose : not relevant  
Parameter : LD50 ( XYLENE ; CAS No. : 1330-20-7 )  
Exposure route : Oral  
Species : Rat  
Effective dose : 4300 mg/kg

###### STOT-single exposure

See section 2

###### Acute dermal toxicity

Parameter : ATEmix calculated  
Exposure route : Dermal  
Effective dose : 13884 mg/kg  
Parameter : LD50 ( XYLENE ; CAS No. : 1330-20-7 )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : 2000 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 : Inhalative (vapour)  
Effective dose : 39,2 mg/l  
Parameter : LC50 ( XYLENE ; CAS No. : 1330-20-7 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : 8000 mg/l  
Exposure time : 4 h

##### Irritant and corrosive effects

See section 2

##### Sensitisation

See section 2

##### Repeated dose toxicity (subacute, subchronic, chronic)

###### Subacute oral toxicity

###### STOT-repeated exposure

See section 2

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

###### Carcinogenicity

See section 2

###### Germ cell mutagenicity

See section 2

###### Reproductive toxicity

See section 2

##### STOT-single exposure

###### STOT SE 1 and 2

Parameter : NOAEL(C) ( ISOBUTYL ACETATE ; CAS No. : 110-19-0 )

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Exposure route : Inhalative  
Species : Rat  
Effective dose : 10 mg/kg

### Aspiration hazard

See section 2

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity

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

Parameter : LC50 ( ISOBUTYL ACETATE ; CAS No. : 110-19-0 )  
Species : Oryzias latipes (Ricefish)  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : 17 mg/l  
Exposure time : 96 h  
Method : OECD 203  
Parameter : LC50 ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )  
Species : Pimephales promelas (fathead minnow)  
Effective dose : 18 mg/l  
Exposure time : 96 h  
Parameter : LC50 ( 4-METHYLPENTAN-2-ONE ; CAS No. : 108-10-1 )  
Species : Brachydanio rerio (zebra-fish)  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : > 179 mg/l  
Exposure time : 96 h

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

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

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

Parameter : EC50 ( ISOBUTYL ACETATE ; CAS No. : 110-19-0 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : 25 mg/l  
Exposure time : 48 h  
Method : OECD 202  
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 ( 4-METHYLPENTAN-2-ONE ; CAS No. : 108-10-1 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : > 200 mg/l  
Exposure time : 48 h

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

Parameter : Chronic (long-term) daphnia toxicity ( N-BUTYL ACETATE ; CAS No. : 123-86-4 )  
Species : Daphnia magna (Big water flea)  
Effective dose : 23 mg/l  
Exposure time : 21 Day(s)

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

Parameter : EC50 ( ISOBUTYL ACETATE ; CAS No. : 110-19-0 )

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**Species :** Pseudokirchneriella subcapitata  
**Evaluation parameter :** Acute (short-term) algae toxicity  
**Effective dose :** 370 mg/l  
**Exposure time :** 72 h  
**Method :** OECD 201

### Chronic (long-term) algae toxicity

**Parameter :** NOEC ( ISOBUTYL ACETATE ; CAS No. : 110-19-0 )  
**Species :** Pseudokirchneriella subcapitata  
**Evaluation parameter :** Chronic (long-term) algae toxicity  
**Effective dose :** 95 mg/l  
**Exposure time :** 72 h  
**Method :** OECD 201

## 12.2 Persistence and degradability

### Biodegradation

**Parameter :** Biodegradation ( ISOBUTYL ACETATE ; CAS No. : 110-19-0 )  
**Inoculum :** Biodegradation  
**Evaluation parameter :** Aerobic  
**Effective dose :** 81 %  
**Exposure time :** 21 Day(s)  
**Method :** OECD 301D/ EEC 92/69/V, C.4-E

## 12.3 Bioaccumulative potential

No information available.

## 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

### 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)**

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**Class(es) :** 3  
**Classification code :** F1  
**Hazard identification number (Kemler No.) :** 30  
**Tunnel restriction code :** D/E  
**Special provisions :** LQ 5 I · E 1 · Transport in containers with max. 450 litres contents are not subject to the regulations of ADR/RID.  
**Hazard label(s) :** 3  
**Sea transport (IMDG)**  
**Class(es) :** 3  
**EmS-No. :** F-E / S-E  
**Special provisions :** LQ 5 I · E 1 · IMDG 2.3.2.5 (<= 30 l)  
**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

#### 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).

##### Water hazard class (WGK)

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

### 15.2 Chemical safety assessment

For this substance 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 = Arbeitsplatzgrenzwert

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ATE = Acute Toxicity Estimates  
DMEL = Derived Minimal Effect Levels  
DNEL = Derived No Effect Level  
H (8.2) = hautresorptiv (= absorbable through skin contact)  
IATA = International Air Transport Association  
IMDG = International Maritime Code for Dangerous Goods  
LC = Letalkonzentration  
LD50 = Lethal Dose, 50%  
MAK = Maximale Arbeitsplatzkonzentration  
MARPOL = International Convention for the Prevention of Marine Pollution from Ships  
PBT = Persistent, bioaccumulative and toxic  
PNEC = Predicted No Effect Concentration  
RID = Règlement concernant le transport international ferroviaire des marchandises dangereuses  
RCP = reciprocal calculation procedure  
SVHC = Substances of Very high Concern  
STEL = Short-Time-Exposure Limit  
TWA = Time Weighted Average (= Zeitgewichteter Durchschnittsgrenzwert für Exposition)  
VOC = volatile organic compounds  
vPvB = very persistent and very bioaccumulative  
VwVwS = Verwaltungsvorschrift wassergefährdender Stoffe  
WGK = Wassergefährdungskategorie gem. Verwaltungsvorschrift wassergefährdender Stoffe-VwVwS Y (8.2) = Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet werden

### 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]

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

### 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.
H373	May cause damage to organs through prolonged or repeated exposure.

### 16.6 Training advice

None

### 16.7 Additional information

None

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