

Safety Data Sheet

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

Trade name : SWIN 60-102-6
universal thinner short
Revision date : 03.03.2020
Print date : 03.03.2020

Version (Revision) : 5.0.0 (4.0.0)

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. 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]

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

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

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.

Supplemental Hazard information (EU)

EUH066 Repeated exposure may cause skin dryness or cracking.

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. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

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 : $\geq 10 - < 20$ %
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 STOT SE 3 ; H336
Substance with a Community workplace exposure limit

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

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

Weight fraction : $\geq 0,5 - < 5$ %
Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Asp. Tox. 1 ; H304 STOT RE 2 ; H373 Acute Tox. 4 ; H332

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

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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 (CO₂) 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 (CO₂)

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

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

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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

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

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

Limit value : 62 ppm / 300 mg/m³

Peak limitation : 2(I)

Remark : Y

Version : 07.06.2018

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N-BUTYL ACETATE ; CAS No. : 123-86-4
Limit value type (country of origin) : TRGS 900 (D)
Limit value : 62 ppm / 300 mg/m³
Peak limitation : 2(I)
Remark : Y
Version : 07.06.2018

4-METHYLPENTAN-2-ONE ; CAS No. : 108-10-1
Limit value type (country of origin) : TRGS 900 (D)
Limit value : 20 ppm / 83 mg/m³
Peak limitation : 2(I)
Remark : H,Y
Version : 07.06.2018

Limit value type (country of origin) : STEL (EC)
Limit value : 50 ppm / 208 mg/m³
Version : 31.01.2018

Limit value type (country of origin) : TWA (EC)
Limit value : 20 ppm / 83 mg/m³
Version : 31.01.2018

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/m³
Peak limitation : 1(I)
Remark : Y
Version : 07.06.2018

Limit value type (country of origin) : STEL (EC)
Limit value : 100 ppm / 550 mg/m³
Remark : H
Version : 31.01.2018

Limit value type (country of origin) : TWA (EC)
Limit value : 50 ppm / 275 mg/m³
Remark : H
Version : 31.01.2018

XYLENE ; CAS No. : 1330-20-7
Limit value type (country of origin) : TRGS 900 (D)
Limit value : 100 ppm / 440 mg/m³
Peak limitation : 2(II)
Remark : H
Version : 07.06.2018

Limit value type (country of origin) : STEL (EC)
Limit value : 100 ppm / 442 mg/m³
Remark : H
Version : 31.01.2018

Limit value type (country of origin) : TWA (EC)
Limit value : 50 ppm / 221 mg/m³
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/m³
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/m³

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Remark : H
Version : 31.01.2018
Limit value type (country of origin) : TWA (EC)
Limit value : 100 ppm / 442 mg/m³
Remark : H
Version : 31.01.2018

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 : 07.06.2018

XYLENE ; CAS No. : 1330-20-7

Limit value type (country of origin) : TRGS 903 (D)
Parameter : Methylhippuric acid / Urine (U) / End of exposure or end of shift
Limit value : 2000 mg/l
Version : 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) (ISOBUTYL ACETATE ; CAS No. : 110-19-0)
Exposure route : Inhalation
Exposure frequency : Short-term (acute)
Limit value : 960 mg/m³

Limit value type : DNEL worker (local) (ISOBUTYL ACETATE ; CAS No. : 110-19-0)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 480 mg/m³

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/m³

Limit value type : DNEL worker (systemic) (ISOBUTYL ACETATE ; CAS No. : 110-19-0)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 480 mg/m³

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/m³

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/m³

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/m³

Limit value type : DNEL worker (systemic) (N-BUTYL ACETATE ; CAS No. : 123-86-4)
Exposure route : Inhalation

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Exposure frequency : Long-term
Limit value : 300 mg/m³
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) (4-METHYLPENTAN-2-ONE ; CAS No. : 108-10-1)
Exposure route : Inhalation
Exposure frequency : Short-term (acute)
Limit value : 208 mg/m³
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/m³
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/m³
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/m³
Limit value type : DNEL worker (local) (XYLENE ; CAS No. : 1330-20-7)
Exposure route : Inhalation
Exposure frequency : Short-term (acute)
Limit value : 289 mg/m³
Limit value type : DNEL worker (local) (XYLENE ; CAS No. : 1330-20-7)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 221 mg/m³
Limit value type : DNEL worker (systemic) (XYLENE ; CAS No. : 1330-20-7)
Exposure route : Inhalation
Exposure frequency : Short-term (acute)
Limit value : 442 mg/m³
Limit value type : DNEL worker (systemic) (XYLENE ; CAS No. : 1330-20-7)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 211 mg/m³
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)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 77 mg/m³

PNEC

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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) (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) (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) (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) (4-METHYLPENTAN-2-ONE ; CAS No. : 108-10-1)
Limit value : 27,5 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

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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) $30 < x < 60$ 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 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

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-%

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Upper explosion limit :		10,8	Vol-%	
Vapour pressure :	(20 °C)	20	hPa	
Density :	(20 °C)	0,874	g/cm ³	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
Flammable solids :	Not fulfilling criteria for hazard class "Flammable Solids".			
Flammable gases :	Not applicable.			
Oxidising liquids :	No data available.			
Explosive properties :	Not determined.			

9.2 Other information

None

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 (ISOBUTYL ACETATE ; CAS No. : 110-19-0)
Exposure route :	Oral
Species :	Rat
Effective dose :	13413 mg/kg
Method :	OECD 401
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)

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Exposure route : Oral
Species : Rabbit
Effective dose : 7,4 g/kg
Parameter : LD50 (4-METHYLPENTAN-2-ONE ; CAS No. : 108-10-1)
Exposure route : Oral
Species : Rat
Effective dose : 2080 mg/kg
Parameter : LD50 (XYLENE ; CAS No. : 1330-20-7)
Exposure route : Oral
Species : Rat
Effective dose : 4300 mg/kg
Parameter : LD50 (ETHYLBENZENE ; CAS No. : 100-41-4)
Exposure route : Oral
Species : Rat
Effective dose : 3500 mg/kg

Acute dermal toxicity

Parameter : ATEmix calculated
Exposure route : Dermal
Effective dose : 18512 mg/kg
Parameter : LD50 (ISOBUTYL ACETATE ; CAS No. : 110-19-0)
Exposure route : Dermal
Species : Rabbit
Effective dose : > 17400 mg/kg
Method : OECD 402
Parameter : LD50 (N-BUTYL ACETATE ; CAS No. : 123-86-4)
Exposure route : Dermal
Species : Rabbit
Effective dose : > 14112 mg/kg
Parameter : LD50 (4-METHYLPENTAN-2-ONE ; CAS No. : 108-10-1)
Exposure route : Dermal
Species : Rat
Effective dose : > 2000 mg/kg
Method : OECD 402
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 : 39,2 mg/l
Parameter : LC0 (ISOBUTYL ACETATE ; CAS No. : 110-19-0)
Exposure route : Inhalation
Species : Rat
Effective dose : 23,4 mg/l
Exposure time : 4 h
Parameter : LC50 (N-BUTYL ACETATE ; CAS No. : 123-86-4)
Exposure route : Inhalation (vapour)

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Species : Rat
Effective dose : 21,1 mg/l
Exposure time : 4 h
Method : OECD 403
Parameter : LC50 (4-METHYLPENTAN-2-ONE ; CAS No. : 108-10-1)
Exposure route : Inhalation
Species : Rat
Effective dose : 11,6 mg/l
Exposure time : 4 h
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

Irritant and corrosive effects

Primary irritation to the skin

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

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.

STOT SE 1 and 2

Parameter : NOAEL(C) (ISOBUTYL ACETATE ; CAS No. : 110-19-0)
Exposure route : Inhalative
Species : Rat
Effective dose : 10 mg/kg

STOT-repeated exposure

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

Aspiration hazard

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

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

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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)
Evaluation parameter : Acute (short-term) fish toxicity
Effective dose : 18 mg/l
Exposure time : 96 h
Method : OECD 203
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
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 (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)
Evaluation parameter : Acute (short-term) daphnia toxicity
Effective dose : 44 mg/l
Exposure time : 48 h
Method : OECD 202
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
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

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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 : NOEC (ISOBUTYL ACETATE ; CAS No. : 110-19-0)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Chronic (long-term) daphnia toxicity
Effective dose : 23 mg/l
Exposure time : 21 Day(s)
Method : OECD 211

Parameter : EC50 (N-BUTYL ACETATE ; CAS No. : 123-86-4)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Chronic (long-term) daphnia toxicity
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 (ISOBUTYL ACETATE ; CAS No. : 110-19-0)
Species : Pseudokirchneriella subcapitata
Evaluation parameter : Acute (short-term) algae toxicity
Effective dose : 370 mg/l
Exposure time : 72 h
Method : OECD 201

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

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Species : Pseudokirchneriella subcapitata
Evaluation parameter : Chronic (long-term) algae toxicity
Effective dose : 95 mg/l
Exposure time : 72 h
Method : OECD 201
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 : EC50 (4-METHYLPENTAN-2-ONE ; CAS No. : 108-10-1)
Species : Pseudomonas putida
Evaluation parameter : Bacteria toxicity
Effective dose : 275 mg/l
Exposure time : 16 h
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 : Biodegradation (ISOBUTYL ACETATE ; CAS No. : 110-19-0)
Inoculum : Biodegradation
Evaluation parameter : Aerobic
Effective dose : 81 %
Exposure time : 21 Day(s)
Method : OECD 301D
Parameter : BOD (% of ThOD) (N-BUTYL ACETATE ; CAS No. : 123-86-4)
Inoculum : Degree of elimination
Evaluation parameter : Aerobic
Effective dose : 80 %
Exposure time : 5 Day(s)
Evaluation : Readily biodegradable (according to OECD criteria).
Method : OECD 301D
Parameter : Biodegradation (4-METHYLPENTAN-2-ONE ; CAS No. : 108-10-1)
Inoculum : Biodegradation
Effective dose : 99 %
Exposure time : 7 Day(s)
Evaluation : Readily biodegradable (according to OECD criteria).
Method : OECD 301E
Parameter : Biodegradation (4-METHYLPENTAN-2-ONE ; CAS No. : 108-10-1)
Inoculum : Biodegradation
Effective dose : 83 %
Exposure time : 28 Day(s)
Evaluation : Readily biodegradable (according to OECD criteria).
Method : OECD 301F
Parameter : Biodegradation (XYLENE ; CAS No. : 1330-20-7)
Inoculum : Biodegradation

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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

Parameter : Log KOC (ISOBUTYL ACETATE ; CAS No. : 110-19-0)
Concentration : 2,3
Method : OECD 117

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
Hazard label(s) : 3

Sea transport (IMDG)

Class(es) : 3

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EmS-No. : F-E / ~~S-E~~
Special provisions : LQ 51 · 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, 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

02. Label elements · 02. Labelling according to Regulation (EC) No. 1272/2008 [CLP] · 02. Labelling according to Regulation (EC) No. 1272/2008 [CLP] - Hazard components for labelling · 03. Hazardous ingredients · 14. Transport hazard class(es) - Land transport (ADR/RID) · 14. Transport hazard class(es) - Sea transport (IMDG) · 15. Technische Anleitung Luft (TA-Luft)

16.2 Abbreviations and acronyms

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

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ECx effective concentration
H (8.1) hautresorptiv (absorbable through skin contact)
IATA International Air Transport Association
ICAO International Civil Aviation Organization
I D International maritime Code for Dangerous goods
LCx/LDx/LLx Lethal Concentration/Dose/Loading for x of a population of test organisms
ARPOL 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
P T 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
TR S Technical rules for hazardous substances
T A Time weighted Average
VOC volatile organic compounds
vPv very persistent and very bioaccumulative
VvWwS Administrative regulation of substances hazardous to water
water hazard class acc. ordinance on facilities for handling substances that are hazardous to water (AwSV)
(8.1) No risk of fetal damage will have to be feared if the occupational exposure limit values (A) and the biological limit values () are observed.
(8.1) The risk of fetal damage must be feared even if the occupational exposure limit values (A) and the biological limit values () 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)

H22	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.
H31	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H33	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.
