Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 23.05.2018 *Version number 103* *Revision: 13.02.2018*

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

- **1.1 Product identifier**
- **Trade name Waschverdünnung**
- **Article number:** LOS1850
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture** Cleaning thinner, solvent
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
EURO-LOCK Vertriebs-GmbH
Nordweststraße 3
D-59387 Bielefeld
Phone: +49 (0) 2593 95887-0
Fax: +49 (0) 2593 95887-29
- **Informing department:**
Tel.: +49 (0) 2593 95887-0
E-mail: info@euro-lock.de
- **1.4 Emergency telephone number:**
+49 (0) 2593 95887-0
Monday - Thursday 8:00 - 17:00 CET, Friday 8:00 - 13:00 CET

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SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**

Flam. Liq. 2	H225	Highly flammable liquid and vapour.
Skin Irrit. 2	H315	Causes skin irritation.
Eye Irrit. 2	H319	Causes serious eye irritation.
Repr. 2	H361d	Suspected of damaging the unborn child.
STOT SE 3	H336	May cause drowsiness or dizziness.
STOT RE 2	H373	May cause damage to organs through prolonged or repeated exposure.
Asp. Tox. 1	H304	May be fatal if swallowed and enters airways.
Aquatic Chronic 3	H412	Harmful to aquatic life with long lasting effects.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**

GHS02 GHS07 GHS08

- **Signal word** Danger
- **Hazard-determining components of labelling:**
xylene, mixed isomers, pure
toluene
n-butyl acetate
Hydrocarbons, C9, aromatics

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- **Hazard statements**

H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H361d Suspected of damaging the unborn child.
H336 May cause drowsiness or dizziness.
H373 May cause damage to organs through prolonged or repeated exposure.
H304 May be fatal if swallowed and enters airways.
H412 Harmful to aquatic life with long lasting effects.

- **Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
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.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
- **Description:** Mixture of regenerated halogen-free solvents

- **Dangerous components:**		
CAS: 123-86-4 EINECS: 204-658-1 Reg.nr.: 01-2119485493-29	n-butyl acetate Flam. Liq. 3, H226; STOT SE 3, H336	25-50%
CAS: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119488216-32 01-2119555267-33	xylene, mixed isomers, pure Flam. Liq. 3, H226; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335; Aquatic Chronic 3, H412	10-25%
CAS: 141-78-6 EINECS: 205-500-4 Reg.nr.: 01-2119475103-46	ethyl acetate Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	10-25%
CAS: 108-88-3 EINECS: 203-625-9 Reg.nr.: 01-2119471310-51	toluene Flam. Liq. 2, H225; Repr. 2, H361d; STOT RE 2, H373; Asp. Tox. 1, H304; Skin Irrit. 2, H315; STOT SE 3, H336	10-25%
CAS: 78-93-3 EINECS: 201-159-0 Reg.nr.: 01-2119457290-43	butanone Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	2.5-10%
EC number: 918-668-5 Reg.nr.: 01-2119455851-35	Hydrocarbons, C9, aromatics Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H335-H336	2.5-10%
EC number: 921-024-6 Reg.nr.: 01-2119475514-35	naphtha (petroleum). hydrotreated, light Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336	2.5-10%

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CAS: 64-17-5 EINECS: 200-578-6 Reg.nr.: 01-2119457610-43	ethanol Flam. Liq. 2, H225; Eye Irrit. 2, H319	< 2.5%
CAS: 67-64-1 EINECS: 200-662-2 Reg.nr.: 01-2119471330-49	acetone Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	< 2.5%
CAS: 67-63-0 EINECS: 200-661-7 Reg.nr.: 01-2119457558-25	propan-2-ol Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	< 2.5%
CAS: 71-23-8 EINECS: 200-746-9 Reg.nr.: 01-2119486761-29	propan-1-ol Flam. Liq. 2, H225; Eye Dam. 1, H318; STOT SE 3, H336	< 2.5%
CAS: 108-65-6 EINECS: 203-603-9 Reg.nr.: 01-2119475791-29	2-methoxy-1-methylethyl acetate Flam. Liq. 3, H226	< 2.5%

- **Additional information** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General advice:**
Instantly remove any clothing soiled by the product.
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- **After inhalation** Supply fresh air; consult doctor in case of symptoms.
- **After skin contact**
Instantly wash with water and soap and rinse thoroughly. If skin irritation persists, seek medical advice.
- **After eye contact**
Rinse immediately opened eye for several minutes under running water. Then consult doctor.
- **After swallowing**
Do not induce vomiting; instantly call for medical help.
Administer medicinal carbon
- **4.2 Most important symptoms and effects, both acute and delayed**
Irritant effect to skin, eyes and respiratory organs; headaches; nausea; dizziness feeling; imbalances; anesthesia; unconsiousness.
- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents**
CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **5.2 Special hazards arising from the substance or mixture**
Can form explosive gas-air mixtures. In case of incomplete combustion carbon monoxide can arise. Fumes are heavier than air and distributed over ground. Inflammation is possible from a far distance.
Avoid contact with combustible substances
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear full protective suit with self-contained breathing apparatus.

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- ***Additional information***
Endangered containers in the surrounding area should be cooled with a water-hose.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

- ***6.1 Personal precautions, protective equipment and emergency procedures***
Wear protective equipment. Keep off unprotected persons
Extinguish naked flames. Remove flammable sources. No smoking. Avoid sparks. Avoid contact with skin, eyes and clothing. Avoid inhalation of fumes. Air contaminated rooms thoroughly. Protect against electrostatic sparks.
- ***6.2 Environmental precautions:***
Prevent material from reaching sewage system, holes and cellars.
Inform respective authorities in case product reaches water or sewage system.
If large amounts are released, the authorities must be informed.
- ***6.3 Methods and material for containment and cleaning up:***
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of contaminated material as waste according to item 13.
Ensure adequate ventilation.
- ***6.4 Reference to other sections***
See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for information on disposal.
Danger of explosion

SECTION 7: Handling and storage

- ***7.1 Precautions for safe handling***
Ensure good ventilation/exhaustion at the workplace. Avoid repeated or long-term skin contact.
- ***Information about protection against explosions and fires:***
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
- ***7.2 Conditions for safe storage, including any incompatibilities***
- ***Storage***
Protect against direct sunlight, other sources of heat and ignition.
Store in cool, dry conditions in well sealed containers.
- ***Requirements to be met by storerooms and containers:***
Observe official regulations on storage and handling of water harzardous substances
Suitable material for containers and conduit: steel or stainless steel.
- ***Information about storage in one common storage facility:***
Pay attention to regulations / technical guidelines on mixed storage of flammable liquids.
- ***Further information about storage conditions:*** *Store in cool, dry conditions in well sealed containers.*
- ***Storage class*** *3 (VCI - Konzept, 2007)*
- ***7.3 Specific end use(s)*** *No further relevant information available.*

SECTION 8: Exposure controls/personal protection

- ***Additional information about design of technical systems:***
Room ventilation i.e. vacuum suction. Measures to be taken against electro-static sparks.

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- **8.1 Control parameters**

- **Components with critical values that require monitoring at the workplace:**	
123-86-4 n-butyl acetate (25-50%)	
WEL	Short-term value: 966 mg/m³, 200 ppm Long-term value: 724 mg/m³, 150 ppm
1330-20-7 xylene, mixed isomers, pure (10-25%)	
WEL	Short-term value: 441 mg/m³, 100 ppm Long-term value: 220 mg/m³, 50 ppm Sk; BMGV
141-78-6 ethyl acetate (10-25%)	
WEL	Short-term value: 400 ppm Long-term value: 200 ppm
108-88-3 toluene (10-25%)	
WEL	Short-term value: 384 mg/m³, 100 ppm Long-term value: 191 mg/m³, 50 ppm Sk
78-93-3 butanone (2.5-10%)	
WEL	Short-term value: 899 mg/m³, 300 ppm Long-term value: 600 mg/m³, 200 ppm Sk
Hydrocarbons, C9, aromatics (2.5-10%)	
TWA (8H)	Long-term value: 150 mg/m³ RCP Aromatic solvents
64-17-5 ethanol (< 2.5%)	
WEL	Long-term value: 1920 mg/m³, 1000 ppm
67-64-1 acetone (< 2.5%)	
WEL	Short-term value: 3620 mg/m³, 1500 ppm Long-term value: 1210 mg/m³, 500 ppm
67-63-0 propan-2-ol (< 2.5%)	
WEL	Short-term value: 1250 mg/m³, 500 ppm Long-term value: 999 mg/m³, 400 ppm
71-23-8 propan-1-ol (< 2.5%)	
WEL	Short-term value: 625 mg/m³, 250 ppm Long-term value: 500 mg/m³, 200 ppm Sk
108-65-6 2-methoxy-1-methylethyl acetate (< 2.5%)	
WEL	Short-term value: 548 mg/m³, 100 ppm Long-term value: 274 mg/m³, 50 ppm Sk

- **DNELs**		
123-86-4 n-butyl acetate		
Dermal	DNEL (population)	3.4 mg/kg bw/day (Long-term, systemic effects)
	DNEL (worker)	7 mg/kg bw/day (Long-term, systemic effects)
Inhalative	DNEL (population)	859.7 mg/m³ (Acute, systemic effects)
		859.7 mg/m³ (Acute, local effects)
		102.34 mg/m³ (Long-term, systemic effects)

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		102.34 mg/m³ (Long-term - local effects)
	DNEL (worker)	960 mg/m³ (Acute, systemic effects)
		960 mg/m³ (Acute, local effects)
		480 mg/m³ (Long-term, systemic effects)
		480 mg/m³ (Long-term - local effects)
1330-20-7 xylene, mixed isomers, pure		
Oral	DNEL (population)	1.6 mg/kg bw/day (Long-term, systemic effects)
Dermal	DNEL (population)	108 mg/kg bw/day (Long-term, systemic effects)
	DNEL (worker)	180 mg/kg bw/day (Long-term, systemic effects)
Inhalative	DNEL (population)	14.8 mg/m³ (Long-term, systemic effects)
		174 mg/m³ (Acute - systemic and local effects)
	DNEL (worker)	77 mg/m³ (Long-term, systemic effects)
		289 mg/m³ (Acute - systemic and local effects)
141-78-6 ethyl acetate		
Oral	DNEL (population)	4.5 mg/kg bw/day (Long-term, systemic effects)
Dermal	DNEL (population)	37 mg/kg bw/day (Long-term, systemic effects)
	DNEL (worker)	63 mg/kg bw/day (Long-term, systemic effects)
Inhalative	DNEL (population)	734 mg/m³ (Acute, systemic effects)
		734 mg/m³ (Acute, local effects)
		367 mg/m³ (Long-term, systemic effects)
		367 mg/m³ (Long-term - local effects)
	DNEL (worker)	1468 mg/m³ (Acute, systemic effects)
		1468 mg/m³ (Acute, local effects)
		734 mg/m³ (Long-term, systemic effects)
		734 mg/m³ (Long-term - local effects)
108-88-3 toluene		
Oral	DNEL (population)	8.13 mg/kg bw/day (Long-term, systemic effects)
Dermal	DNEL (population)	226 mg/cm² (Long-term, systemic effects)
	DNEL (worker)	384 mg/kg bw/day (Long-term, systemic effects)
Inhalative	DNEL (population)	56.5 mg/m³ (Long-term, systemic effects)
		226 mg/m³ (Acute - systemic and local effects)
	DNEL (worker)	192 mg/m³ (Long-term - systemic and local effects)
		384 mg/m³ (Acute - systemic and local effects)
78-93-3 butanone		
Oral	DNEL (population)	31 mg/kg bw/day (Long-term, systemic effects)
Dermal	DNEL (population)	412 mg/kg bw/day (Long-term, systemic effects)
	DNEL (worker)	1161 mg/kg bw/day (Long-term, systemic effects)
Inhalative	DNEL (population)	106 mg/m³ (Long-term, systemic effects)
	DNEL (worker)	600 mg/m³ (Long-term, systemic effects)
Hydrocarbons, C9, aromatics		
Oral	DNEL (population)	11 mg/kg bw/day (Long-term, systemic effects)
Dermal	DNEL (population)	11 mg/kg bw/day (Long-term, systemic effects)
	DNEL (worker)	25 mg/kg bw/day (Long-term, systemic effects)

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Inhalative	DNEL (population)	32 mg/m³ (Long-term, systemic effects)
	DNEL (worker)	150 mg/m³ (Long-term, systemic effects)
naphtha (petroleum). hydrotreated, light		
Oral	DNEL (population)	699 mg/kg bw/day (Long-term, systemic effects)
Dermal	DNEL (population)	699 mg/kg bw/day (Long-term, systemic effects)
	DNEL (worker)	773 mg/kg bw/day (Long-term, systemic effects)
Inhalative	DNEL (population)	608 mg/m³ (Long-term, systemic effects)
	DNEL (worker)	2035 mg/m³ (Long-term, systemic effects)
64-17-5 ethanol		
Oral	DNEL (population)	87 mg/kg bw/day (Long-term, systemic effects)
Dermal	DNEL (population)	206 mg/kg bw/day (Long-term, systemic effects)
	DNEL (worker)	343 mg/kg bw/day (Long-term, systemic effects)
Inhalative	DNEL (population)	950 mg/m³ (Acute, local effects)
		114 mg/m³ (Long-term, systemic effects)
	DNEL (worker)	1900 mg/m³ (Acute, local effects)
		950 mg/m³ (Long-term, systemic effects)
67-64-1 acetone		
Oral	DNEL (population)	62 mg/kg bw/day (Long-term, systemic effects)
Dermal	DNEL (population)	62 mg/kg bw/day (Long-term, systemic effects)
	DNEL (worker)	186 mg/kg bw/day (Long-term, systemic effects)
Inhalative	DNEL (population)	200 mg/m³ (Long-term, systemic effects)
	DNEL (worker)	2420 mg/m³ (Acute, local effects)
		1210 mg/m³ (Long-term, systemic effects)
67-63-0 propan-2-ol		
Oral	DNEL (population)	26 mg/kg bw/day (Long-term, systemic effects)
Dermal	DNEL (population)	319 mg/kg bw/day (Long-term, systemic effects)
	DNEL (worker)	888 mg/kg bw/day (Long-term, systemic effects)
Inhalative	DNEL (population)	89 mg/m³ (Long-term, systemic effects)
	DNEL (worker)	500 mg/m³ (Long-term, systemic effects)
71-23-8 propan-1-ol		
Oral	DNEL (population)	61 mg/kg bw/day (Long-term, systemic effects)
Dermal	DNEL (population)	81 mg/kg bw/day (Long-term, systemic effects)
	DNEL (worker)	136 mg/kg bw/day (Long-term, systemic effects)
Inhalative	DNEL (population)	1036 mg/m³ (Acute, systemic effects)
		80 mg/m³ (Long-term, systemic effects)
	DNEL (worker)	1723 mg/m³ (Acute, systemic effects)
		268 mg/m³ (Long-term, systemic effects)
108-65-6 2-methoxy-1-methylethyl acetate		
Oral	DNEL (population)	1.67 mg/kg bw/day (Long-term, systemic effects)
Dermal	DNEL (population)	54.8 mg/kg bw/day (Long-term, systemic effects)
	DNEL (worker)	153.5 mg/kg bw/day (Long-term, systemic effects)
Inhalative	DNEL (population)	33 mg/m³ (Long-term, systemic effects)
	DNEL (worker)	275 mg/m³ (Long-term, systemic effects)

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- **PNECs**	
123-86-4 n-butyl acetate	
PNEC STP	35.6 mg/l (sewage plant)
PNEC aqua	0.18 mg/l (water)
PNEC sediment	0.981 mg/kg dw (sediment)
1330-20-7 xylene, mixed isomers, pure	
PNEC	0.327 mg/l (intermittent releases)
PNEC STP	6.58 mg/l (sewage plant)
PNEC aqua	0.327 mg/l (freshwater)
	0.327 mg/l (marine water)
PNEC sediment	12.46 mg/kg dw (freshwater)
	12.46 mg/kg dw (marine water)
PNEC soil	2.31 mg/kg dw (soil)
141-78-6 ethyl acetate	
PNEC	0.26 mg/l (freshwater)
	0.22 mg/kg dw (soil)
	650 mg/l (sewage plant)
PNEC sediment	0.34 mg/kg dw (freshwater)
108-88-3 toluene	
PNEC	0.68 mg/l (water)
	16.39 mg/kg dw (sediment)
	2.89 mg/kg dw (sewage plant)
	13.61 mg/l (sewage plant)
64-17-5 ethanol	
PNEC	0.63 mg/kg dw (soil)
PNEC STP	580 mg/l (380)
PNEC aqua	0.96 mg/l (freshwater)
	0.79 mg/l (marine water)
	2.75 mg/l (intermittent releases)
PNEC sediment	3.6 mg/kg dw (freshwater)
	2.9 mg/kg dw (marine water)
67-64-1 acetone	
PNEC	21 mg/l (intermittent releases)
	100 mg/l (sewage plant)
PNEC aqua	10.6 mg/l (freshwater)
	1.06 mg/l (marine water)
PNEC sediment	30.4 mg/kg dw (freshwater)
	3.04 mg/kg dw (marine water)
PNEC soil	29.5 mg/kg dw (soil)
67-63-0 propan-2-ol	
PNEC	2251 mg/l (sewage plant)
PNEC aqua	140.9 mg/l (freshwater)
	140.9 mg/l (marine water)

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PNEC sediment	*552 mg/kg (freshwater)*
PNEC soil	*28 mg/kg (soil)*
71-23-8 propan-1-ol	
PNEC	*2.2 mg/kg dw (soil)*
	96 mg/l (sewage plant)
PNEC aqua	*10 mg/l (freshwater)*
	1 mg/l (marine water)
PNEC sediment	*22.8 mg/kg dw (freshwater)*
	2.28 mg/kg dw (marine water)
108-65-6 2-methoxy-1-methylethyl acetate	
PNEC	*100 mg/l (379)*
	0.29 mg/kg dw (soil)
PNEC aqua	*0.635 mg/l (freshwater)*
	0.0635 mg/l (marine water)
PNEC sediment	*3.29 mg/kg dw (freshwater)*

- ***Additional information:*** *The lists that were valid during the compilation were used as basis.*

- ***8.2 Exposure controls***
- ***Personal protective equipment***
- ***General protective and hygienic measures***
Keep away from food, beverages and fodder.
Wash hands during breaks and at the end of the work.
Avoid contact with the eyes and skin.
Gases, fumes and aerosols should not be inhaled.
- ***Breathing equipment:***
In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.
- ***Recommended filter device for short term use:*** *Combination filter A-P2*
- ***Protection of hands:*** *Solvent resistant gloves*
- ***Material of gloves***
Nitrile rubber, NBR
Fluorocarbon rubber (Viton)
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- ***Penetration time of glove material***
Material of gloves is recommended for a short-term single use to protect from splashes. For permanent usage contact manufacturer of gloves.
- ***Eye protection:*** *Tightly sealed safety glasses.*
- ***Body protection:***
Standard protective working clothes, chemical resistant safety-shoes or wellingtons. If skin contact is possible, wear impenetrable protective clothing.

SECTION 9: Physical and chemical properties

- ***9.1 Information on basic physical and chemical properties***
- ***General Information***
- ***Appearance:***

Form:	*Fluid*
Colour:	*Colourless*

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- **Smell:**	Characteristic
- **Odour threshold:**	Not determined
- **pH-value:**	Not applicable
- **Change in condition**	
Melting point/freezing point:	Not determined
Initial boiling point and boiling range:	50-160 °C
- **Flash point:**	< 23 °C
- **Ignition temperature:**	250 °C
- **Explosive properties:**	Product is not explosive. However, formation of explosive air/ steam mixtures is possible.
- **Critical values for explosion:**	
Lower:	~ 1.1 Vol %
Upper:	~ 13 Vol %
- **Vapour pressure at 20 °C:**	97 hPa
- **Density at 20 °C**	~ 0.86 g/cm3
- **Relative density**	Not determined
- **Vapour density**	Not determined
- **Evaporation rate**	Not determined
- **Solubility in / Miscibility with**	
Water:	Insoluble
- **Partition coefficient: n-octanol/water:**	Not determined
- **Viscosity:**	
dynamic:	Not determined
kinematic at 20 °C:	< 20 s (DIN 53211/4)
- **9.2 Other information**	No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
To avoid: warmth, flames, sparks
- **10.3 Possibility of hazardous reactions** Violent reaction with strong oxidising agents possible.
- **10.4 Conditions to avoid** To avoid: warmth, flames, sparks
- **10.5 Incompatible materials:**
strong oxidizing agents
Acids
alkalies
Water
- **10.6 Hazardous decomposition products:**
Formation of carbon monoxide and carbon dioxide in case of fire.
- **Additional information:** Attacks many plastics and dissolves them.

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SECTION 11: Toxicological information

- ***11.1 Information on toxicological effects***
- ***Acute toxicity*** *Based on available data, the classification criteria are not met.*

- ***LD/LC50 values that are relevant for classification:***		
123-86-4 n-butyl acetate		
Oral	*LD50*	*7400 mg/kg (rabbit)*
		> 8800 mg/kg (rat)
Dermal	*LD50*	*> 5000 mg/kg (rabbit)*
Inhalative	*LC 50*	*2000 mg/l (rat)*
	LC 50 / 4 h	*> 21 mg/l (rat)*
1330-20-7 xylene, mixed isomers, pure		
Oral	*LD50*	*8700 mg/kg (rat)*
Dermal	*LD50*	*2000 mg/kg (rbt)*
Inhalative	*LC 50 / 4 h*	*10-20 mg/l (rat)*
141-78-6 ethyl acetate		
Oral	*LD50*	*5620 mg/kg (rbt)*
Dermal	*LD50*	*> 18000 mg/kg (rabbit)*
Inhalative	*LC 50 / 4 h*	*56 mg/l (rat)*
108-88-3 toluene		
Oral	*LD50*	*5580 mg/kg (rat)*
Dermal	*LD50*	*12124 mg/kg (rab)*
Inhalative	*LC 50 / 4 h*	*28.1 mg/l (rat)*
78-93-3 butanone		
Oral	*LD50*	*3300 mg/kg (rat)*
Dermal	*LD50*	*5000 mg/kg (rbt)*
Inhalative	*LC 50 / 4 h*	*34.5 mg/l (rat)*
		40 mg/l (mus)
Hydrocarbons, C9, aromatics		
Oral	*LD50*	*> 2000 mg/kg (rat)*
Dermal	*LD50*	*> 2000 mg/kg (rat)*
Inhalative	*LC 50 / 4 h*	*> 10.2 mg/l (rat)*
naphtha (petroleum). hydrotreated, light		
Oral	*LD50*	*> 5840 mg/kg (rat)*
Dermal	*LD50*	*> 2000 mg/kg (rabbit)*
		> 2920 mg/kg (rbt)
Inhalative	*LC 50 / 4 h*	*> 25 mg/l (rat) (vapour)*
		88 mg/l (rat)
64-17-5 ethanol		
Oral	*LD50*	*10470 mg/kg (rat)*
Dermal	*LD50*	*> 2000 mg/kg (rabbit)*
Inhalative	*LC 50 / 4 h*	*> 20 mg/l (mouse)*
		38 mg/l (rat)

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67-64-1 acetone		
Oral	LD50	5800 mg/kg (rat)
Dermal	LD50	> 15800 mg/kg (rbt)
Inhalative	LC 50 / 4 h	76 mg/l (rat)
67-63-0 propan-2-ol		
Oral	LD50	4570 mg/kg (rat)
Dermal	LD50	> 2000 mg/kg (rabbit)
		13400 mg/kg (rab)
Inhalative	LC 50 / 4 h	30 mg/l (rat)
71-23-8 propan-1-ol		
Oral	LD50	ca. 8000 mg/kg (rat)
Dermal	LD50	4032 mg/kg (rab)
Inhalative	LC 50 / 4 h	> 33.8 mg/l (rat)
108-65-6 2-methoxy-1-methylethyl acetate		
Oral	LD50	8500 mg/kg (rat)
Inhalative	LC 50 / 4 h	35.7 mg/l (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation**
Prolonged/repeated skin contact may cause defatting, dryness and other skin complaints and inflammations (dermatitis).
Causes skin irritation.
- **Serious eye damage/irritation**
Causes serious eye irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Other information (about experimental toxicology):**
Toluene: causes foetotoxicity in animals at doses which are maternally toxic.
Classification Repr. Cat. 3 (substances which cause concern for humans owing to possible developmental toxic effects).
- **Subacute to chronic toxicity:**

- **STOT-repeated exposure:**		
64-17-5 ethanol		
Oral	NOAEL	1760 mg/kg (rat) (OECD 408, 90 d, target organ: liver)
67-64-1 acetone		
Oral	NOAEL	900 mg/kg (rat) (KG/day 90 days)
67-63-0 propan-2-ol		
Oral	NOAEL	900 mg/kg (rat) ((90d) OECD 408)

- **Additional toxicological information:** The product has a strong degreasing effect on the skin.
- **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity**
Suspected of damaging the unborn child.
- **STOT-single exposure**
May cause drowsiness or dizziness.
- **STOT-repeated exposure**
May cause damage to organs through prolonged or repeated exposure.

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- ***Aspiration hazard***
  May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

- ***12.1 Toxicity***

- ***Aquatic toxicity:***	
123-86-4 n-butyl acetate	
EC 50 / 24 h	*73 mg/l (Daphnia magna)*
EC 50 / 48 h	*44 mg/l (Daphnia magna)*
EC 50 / 72 h	*675 mg/l (Scenedesmus subspicatus)*
LC 50 / 96 h	*62 mg/l (Leuciscus idus)*
	18 mg/l (Pimephales promelas)
	62 mg/l (Danio rerio)
1330-20-7 xylene, mixed isomers, pure	
EC 50 / 48 h	*1-10 mg/l (Aquatic invertebrates)*
LC 50 / 72 h	*1-10 mg/l (Algae)*
	2-8 mg/l (Selenastrum capricornutum)
LC 50 / 96 h	*86 mg/l (Leuciscus idus)*
	1-10 mg/l (fish)
141-78-6 ethyl acetate	
EC 50 / 48 h	*717 mg/l (Daphnia magna)*
	3300 mg/l (Scenedesmus subspicatus)
LC 50 / 96 h	*230 mg/l (Oncorhynchus mykiss)*
	455 mg/l (Pimephales promelas)
NOEC	*2.4 mg/l (Daphnia magna) (21 d; DIN 38412, Part 11)*
NOEC / 72 h	*> 100 mg/l (Desmodesmus subspicatus) (OECD 201)*
108-88-3 toluene	
EC 50 / 48 h	*1-10 mg/l (Aquatic invertebrates)*
EC 50 / 96 h	*> 100 mg/l (Algae)*
LC 50 / 96 h	*1-10 mg/l (fish)*
78-93-3 butanone	
EC 50 / 48 h	*1382 mg/l (Daphnia)*
LC 50 / 96 h	*> 3000 mg/l (fish)*
Hydrocarbons, C9, aromatics	
LC 50	*1-10 mg/l (fish)*
	1-10 mg/l (Aquatic invertebrates)
	1-10 mg/l (Algae)
naphtha (petroleum). hydrotreated, light	
EC 50	*1-10 mg/l (Aquatic invertebrates)*
	1-10 mg/l (Algae)
LC 50	*10-100 mg/l (fish)*
NOELR	*2.045 mg/l (Oncorhynchus mykiss) (28 d)*

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	1 mg/l (Daphnia magna) (21 d (OECD 211))
64-17-5 ethanol	
EC 50 / 48 h	> 10000 mg/l (Daphnia magna)
EC 50 / 72 h	275 mg/l (Chlorella vulgaris)
LC 50 / 48 h	8140 mg/l (Leuciscus idus)
67-64-1 acetone	
EC 50 / 48 h	> 100 mg/l (Daphnia magna)
EC 50 / 96 h	8300 mg/l (Lepomis macrochirus)
	7500 mg/l (Selenastrum capricornutum)
LC 50 / 96 h	7500 mg/l (Leuciscus idus)
	6500 mg/l (Oncorhynchus mykiss)
67-63-0 propan-2-ol	
EC 50 / 48 h	> 100 mg/l (Daphnia magna)
EC 50 / 72 h	> 100 mg/l (Scenedesmus subspicatus)
LC 50 / 48 h	> 100 mg/l (Leuciscus idus)
71-23-8 propan-1-ol	
EC 10 / 16 h	2700 mg/l (Pseudomonas putida)
EC 50 / 48 h	3640 - 8150 mg/l (Daphnia magna)
LC 50 / 48 h	3200 mg/l (Salmo gairdneri)
LC 50 / 96 h	4100 - 5000 mg/l (Pimephales promelas)
108-65-6 2-methoxy-1-methylethyl acetate	
EC 50 / 48 h	> 500 mg/l (Daphnia magna)
LC 50 / 96 h	100-180 mg/l (Oncorhynchus mykiss)

- **12.2 Persistence and degradability**	
123-86-4 n-butyl acetate	
DOC - Elimination	> 70 % (OECD 301 E)
108-65-6 2-methoxy-1-methylethyl acetate	
DOC - Elimination	> 90 % (OECD 302 B)

- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxical effects:**
- **Remark:** Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- **Respiratory inhibition of communal activated sludge EC 20 (mg/l according to ISO 8192 B):**	
64-17-5 ethanol	
EC 50	> 100 mg/l (Chlorella pyrenoidosa)
71-23-8 propan-1-ol	
EC 0	3100 mg/l (Scenedesmus quadricauda)

- **Additional ecological information:**
- **General notes:**
Water hazard class 2 (Self-assessment): hazardous for water.
Danger to drinking water if even small quantities leak into soil.
Do not allow product to reach ground water, water bodies or sewage system.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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- ***12.6 Other adverse effects*** *No further relevant information available.*

SECTION 13: Disposal considerations

- ***13.1 Waste treatment methods***
The following advice is related to new material and not to any processed products. In case of a mixture with other products other disposal methods may become necessary. If in doubt seek advice from product supplier or from local authorities.
- ***Recommendation***
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
If possible, send to be recycled, otherwise burn or deposit in a certified facility.
- ***Waste disposal key number:***
Since 01/01/99 the waste code numbers have not only been product-related but are also essentially application-related. The valid waste code number of the application can be obtained from the European waste catalogue.

- ***Uncleaned packagings:*** *Disposal must be made according to official regulations.*
- ***Recommendation:***
Rented packaging: After optimal emptying, close immediately and return to the supplier without cleaning.
Care should be taken that no other materials get into the packaging.
Other containers: After complete emptying and cleaning, send to be reconditioned or recycled.
Caution: Leftovers in the containers may cause the risk of explosion.
Uncleaned containers should not be perforated, cut or welded.

SECTION 14: Transport information

- ***14.1 UN-Number***	
- ***ADR, IMDG, IATA***	*UN1993*
- ***14.2 UN proper shipping name***	
- ***ADR***	*1993 FLAMMABLE LIQUID, N.O.S. (ETHYL ACETATE, TOLUENE), special provision 640D*
- ***IMDG, IATA***	*FLAMMABLE LIQUID, N.O.S. (ACETONE, TOLUENE)*
- ***14.3 Transport hazard class(es)***	
- ***ADR***	
- ***Class***	*3 (F1) Flammable liquids.*
- ***Label***	*3*
- ***IMDG, IATA***	
- ***Class***	*3 Flammable liquids.*
- ***Label***	*3*
- ***14.4 Packing group***	
- ***ADR, IMDG, IATA***	*II*
- ***14.5 Environmental hazards:***	*Not applicable.*
- ***Marine pollutant:***	*No*
- ***14.6 Special precautions for user***	*Warning: Flammable liquids.*
- ***Kemler Number:***	*33*
- ***EMS Number:***	*F-E,S-E*

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- ***14.7 Transport in bulk according to Annex II of Marpol and the IBC Code***	*Not applicable.*
- ***Transport/Additional information:***	
- ***ADR***	
- ***Limited quantities (LQ)***	*1L*
- ***Excepted quantities (EQ)***	*Code: E2* *Maximum net quantity per inner packaging: 30 ml* *Maximum net quantity per outer packaging: 500 ml*
- ***Transport category***	*2*
- ***Tunnel restriction code***	*D/E*
- ***IMDG***	
- ***Limited quantities (LQ)***	*1L*
- ***Excepted quantities (EQ)***	*Code: E2* *Maximum net quantity per inner packaging: 30 ml* *Maximum net quantity per outer packaging: 500 ml*
- ***UN "Model Regulation":***	*UN1993, FLAMMABLE LIQUID, N.O.S. (ETHYL ACETATE, TOLUENE), special provision 640D, 3, II*

*
SECTION 15: Regulatory information

- ***15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture***
- ***Labelling according to Regulation (EC) No 1272/2008***

The product is classified and labelled according to the CLP regulation.

- ***Hazard pictograms***

GHS02 GHS07 GHS08

- ***Signal word*** *Danger*

- ***Hazard-determining components of labelling:***

xylene, mixed isomers, pure
toluene
n-butyl acetate
Hydrocarbons, C9, aromatics

- ***Hazard statements***

H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H361d Suspected of damaging the unborn child.
H336 May cause drowsiness or dizziness.
H373 May cause damage to organs through prolonged or repeated exposure.
H304 May be fatal if swallowed and enters airways.
H412 Harmful to aquatic life with long lasting effects.

- ***Precautionary statements***

P210 *Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.*
P280 *Wear protective gloves/protective clothing/eye protection/face protection.*
P301+P310 *IF SWALLOWED: Immediately call a POISON CENTER/ doctor.*

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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.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 40, 48
- **National regulations**
- **Information about limitation of use:**
Employment restrictions concerning young persons must be observed.
Employment restrictions concerning pregnant and lactating women must be observed.
- **VOC:** 857 g/l volatile organic compounds (Council Directive 1999/13/EC)
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**
Complete wording of hazard statements and risk phrases (H- and R-phrases) mentioned in section 3. These phrases refer to the constituents. The labelling for this product is stated in section 2.
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.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H361d Suspected of damaging the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

- **Department issuing data specification sheet:** see item 1: Informing department

- **Abbreviations and acronyms:**
NOAEL: No Observed Adverse Effect Level
RPE: Respiratory Protective Equipment
RCR: Risk Characterisation Ratio (RCR= PEC/PNEC)
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
CLP: Classification, Labelling and Packaging (Regulation (EC) No. 1272/2008)
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
TRGS: Technische Regeln für Gefahrstoffe (Technical Rules for Dangerous Substances, BAuA, Germany)
ISO: International Organisation for Standardisation
DNEL: Derived No-Effect Level (REACH)

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PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 2: Flammable liquids – Category 2
Flam. Liq. 3: Flammable liquids – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Repr. 2: Reproductive toxicity – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
Asp. Tox. 1: Aspiration hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

- **** Data compared to the previous version altered.***