

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

Printing date 16.03.2023

Version number 109.01 (replaces version 109.00)

Revision: 16.03.2023

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

1.1 Product identifier

Trade name: Terpentinersatz**Article number:** LOS1950 **UFI:** UD27-5MPJ-S50J-8TWN

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

Solvents

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

EURO-LOCK Vertriebs-GmbH

Nordweststraße 3

D - 59387 Ascheberg

Tel.: +49 (0) 2593/95887-0

Informing department:

Tel.: +49 (0) 2593/95887-0

E-Mail: info@euro-lock.de

1.4 Emergency telephone number:

This is an English-language document designed for the European region. For the emergency number and other country-specific data, please refer to the specific national versions of this safety data sheet.

Counselling Centre for Poisoning, Mainz

Tel. (+49) 61 31 / 19 240.

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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	H335-H336	May cause respiratory irritation. May cause drowsiness or dizziness.
STOT RE 2	H373	May cause damage to organs through prolonged or repeated exposure.
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:

toluene

xylene, mixed isomers, pure

Butyl acetate

Hazard statements

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H361d	Suspected of damaging the unborn child.
H335-H336	May cause respiratory irritation. May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
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.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P273	Avoid release to the environment.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER/doctor if you feel unwell.
P403+P235	Store in a well-ventilated place. Keep cool.
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.

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Determination of endocrine-disrupting properties

78-93-3 | 2-Butanone

List II

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description:

Mixture of the substances listed below with harmless additions

Gemisch aus regenerierten halogenfreien Lösungsmitteln

Dangerous components:

CAS: 123-86-4 EINECS: 204-658-1 Reg.nr.: 01-2119485493-29	Butyl acetate Flam. Liq. 3, H226; STOT SE 3, H336, EUH066	25-50%
CAS: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119488216-32	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	≥20-<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, EUH066	≥10-<20%
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-<20%
CAS: 78-93-3 EINECS: 201-159-0 Reg.nr.: 01-2119457290-43	2-Butanone Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	≥2,5-<10%
CAS: 64742-95-6 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, EUH066	2,5-10%
CAS: 64742-49-0 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%
CAS: 64-17-5 EINECS: 200-578-6 Reg.nr.: 01-2119457610-43	ethanol Flam. Liq. 2, H225; Eye Irrit. 2, H319 Specific concentration limit: Eye Irrit. 2; H319: C ≥ 50 %	≤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, EUH066	≤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	≤1%
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	≤1%
CAS: 108-65-6 EINECS: 203-603-9 Reg.nr.: 01-2119475791-29	2-methoxy-1-methylethyl acetate Flam. Liq. 3, H226; STOT SE 3, H336	≤1%

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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

Remove contaminated clothing immediately. Wash affected areas with plenty of water und soap. If irritation continues, contact a doctor.

After eye contact

Use eye protection.

Rinse immediately opened eye for several minutes under running water. Then consult doctor.

After swallowing

Do not induce vomiting.

Administer medicinal carbon

Instantly call for doctor.

Information for doctor

Cleaning of the stomach should only be carried out with endotracheal intubation. Danger of aspiration.

Renew lipid coating of the skin in order to protect against dermatitis. Symptomatic treatment.

Aktivkohle geben, um die Resorption im Magen-Darm-Trakt zu reduzieren.

4.2 Most important symptoms and effects, both acute and delayed

Irritant effect to skin, eyes and respiratory organs; headaches; nausea; dizziness feeling; imbalances; unconsciousness.

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:

See section 8.

Wear full protective suit with self-contained breathing apparatus.

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.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment and keep unprotected persons away.
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.
Kontamination von Wasser und Boden verhindern.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
Contaminated material has to be disposed as waste (see item 13).

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

Keep containers tightly sealed.
Store in cool, dry place in tightly closed containers.
Ensure good ventilation/exhaustion at the workplace. Avoid repeated or long-term skin contact.
Avoid eye contact.
Prevent formation of aerosols.

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 hazardous substances
Store in cool location.

Information about storage in one common storage facility:

According to guidelines of the VbF, flammable liquids should not be stored together.

Further information about storage conditions:

Keep container tightly sealed.
Store in cool, dry conditions in well sealed containers.
Attention should be paid to the guidelines of the VbF and the related technical regulations of the TRbF

Storage class 3 A (VCI - Konzept, 1993)

7.3 Specific end use(s) No further relevant information available.

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* SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components with critical values that require monitoring at the workplace:

123-86-4 Butyl acetate

AGW (Germany)	Long-term value: 300 mg/m ³ , 62 ppm 2(I);AGS, Y
IOELV (EU)	Short-term value: 723 mg/m ³ , 150 ppm Long-term value: 241 mg/m ³ , 50 ppm

1330-20-7 xylene, mixed isomers, pure

AGW (Germany)	Long-term value: 220 mg/m ³ , 50 ppm 2(II);DFG, EU, H
IOELV (EU)	Short-term value: 442 mg/m ³ , 100 ppm Long-term value: 221 mg/m ³ , 50 ppm Skin

141-78-6 ethyl acetate

AGW (Germany)	Long-term value: 730 mg/m ³ , 200 ppm 2(I);DFG, EU, Y
IOELV (EU)	Short-term value: 1468 mg/m ³ , 400 ppm Long-term value: 734 mg/m ³ , 200 ppm

108-88-3 toluene

AGW (Germany)	Long-term value: 190 mg/m ³ , 50 ppm 2(II);DFG, EU, H, Y
IOELV (EU)	Short-term value: 384 mg/m ³ , 100 ppm Long-term value: 192 mg/m ³ , 50 ppm Skin

78-93-3 2-Butanone

AGW (Germany)	Long-term value: 600 mg/m ³ , 200 ppm 1(I);DFG, EU, H, Y
IOELV (EU)	Short-term value: 900 mg/m ³ , 300 ppm Long-term value: 600 mg/m ³ , 200 ppm

64742-95-6 Hydrocarbons, C9, aromatics

AGW (Germany)	Long-term value: 100 mg/m ³ TRGS 900, Nr. 2,9, Kohlenwasserstoffgemische
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64742-49-0 naphtha (petroleum). hydrotreated, light

AGW (Germany)	Long-term value: 700 mg/m ³ TRGS 900, Nr. 2,9, Kohlenwasserstoffgemische
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64-17-5 ethanol

AGW (Germany)	Long-term value: 380 mg/m ³ , 200 ppm 4(II);DFG, Y
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67-64-1 acetone

AGW (Germany)	Long-term value: 1200 mg/m ³ , 500 ppm 2(I);AGS, DFG, EU, Y
IOELV (EU)	Long-term value: 1210 mg/m ³ , 500 ppm

67-63-0 propan-2-ol

AGW (Germany)	Long-term value: 500 mg/m ³ , 200 ppm 2(II);DFG, Y
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108-65-6 2-methoxy-1-methylethyl acetate

AGW (Germany)	Long-term value: 270 mg/m ³ , 50 ppm 1(l);DFG, EU, Y
IOELV (EU)	Short-term value: 550 mg/m ³ , 100 ppm Long-term value: 275 mg/m ³ , 50 ppm Skin

DNELs

123-86-4 Butyl acetate

Oral	DNEL (population)	2 mg/kg bw/day (Acute, systemic effects) 2 mg/kg bw/day (Long-term, systemic effects)
Dermal	DNEL (worker)	11 mg/kg bw/day (Acute, systemic effects) 7 mg/kg bw/day (Long-term, systemic effects)
	DNEL (population)	6 mg/kg bw/day (Acute, systemic effects) 3,4 mg/kg bw/day (Long-term, systemic effects)
Inhalative	DNEL (worker)	600 mg/m ³ (Acute, systemic effects) 600 mg/m ³ (Acute, local effects) 48 mg/m ³ (Long-term, systemic effects) 300 mg/m ³ (Long-term - local effects)
	DNEL (population)	300 mg/m ³ (Acute, systemic effects) 300 mg/m ³ (Acute, local effects) 12 mg/m ³ (Long-term, systemic effects) 35,7 mg/m ³ (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 (worker)	180 mg/kg bw/day (Long-term, systemic effects)
	DNEL (population)	108 mg/kg bw/day (Long-term, systemic effects)
Inhalative	DNEL (worker)	77 mg/m ³ (Long-term, systemic effects) 289 mg/m ³ (Acute - systemic + local effects)
	DNEL (population)	14,8 mg/m ³ (Long-term, systemic effects) 174 mg/m ³ (Acute - systemic + local effects)

141-78-6 ethyl acetate

Oral	DNEL (population)	4,5 mg/kg bw/day (Long-term, systemic effects)
Dermal	DNEL (worker)	63 mg/kg bw/day (Long-term, systemic effects)
	DNEL (population)	37 mg/kg bw/day (Long-term, systemic effects)
Inhalative	DNEL (worker)	734 mg/m ³ (Long-term - systemic + local effects) 1.468 mg/m ³ (Acute - systemic + local effects)
	DNEL (population)	367 mg/m ³ (Long-term - systemic + local effects) 734 mg/m ³ (Acute - systemic + local effects)

108-88-3 toluene

Oral	DNEL (population)	8,13 mg/kg bw/day (Long-term, systemic effects)
Dermal	DNEL (worker)	384 mg/kg bw/day (Long-term, systemic effects)
	DNEL (population)	226 mg/cm ² (Long-term, systemic effects)
Inhalative	DNEL (worker)	192 mg/m ³ (Long-term - systemic + local effects) 384 mg/m ³ (Acute - systemic + local effects)

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	DNEL (population)	56,5 mg/m ³ (Long-term, systemic effects) 226 mg/m ³ (Acute - systemic + local effects)
78-93-3 2-Butanone		
Oral	DNEL (population)	31 mg/kg bw/day (Long-term, systemic effects)
Dermal	DNEL (worker)	1.161 mg/kg bw/day (Long-term, systemic effects)
	DNEL (population)	412 mg/kg bw/day (Long-term, systemic effects)
Inhalative	DNEL (worker)	600 mg/m ³ (Long-term, systemic effects)
	DNEL (population)	106 mg/m ³ (Long-term, systemic effects)
64742-95-6 Hydrocarbons, C9, aromatics		
Oral	DNEL (population)	11 mg/kg bw/day (Long-term, systemic effects)
Dermal	DNEL (worker)	25 mg/kg bw/day (Long-term, systemic effects)
	DNEL (population)	11 mg/kg bw/day (Long-term, systemic effects)
Inhalative	DNEL (worker)	150 mg/m ³ (Long-term, systemic effects)
	DNEL (population)	32 mg/m ³ (Long-term, systemic effects)
64742-49-0 naphtha (petroleum). hydrotreated, light		
Oral	DNEL (population)	699 mg/kg bw/day (Long-term, systemic effects)
Dermal	DNEL (worker)	773 mg/kg bw/day (Long-term, systemic effects)
	DNEL (population)	699 mg/kg bw/day (Long-term, systemic effects)
Inhalative	DNEL (worker)	2.035 mg/m ³ (Long-term, systemic effects)
	DNEL (population)	608 mg/m ³ (Long-term, systemic effects)
64-17-5 ethanol		
Oral	DNEL (population)	87 mg/kg bw/day (Long-term, systemic effects)
Dermal	DNEL (worker)	8.238 mg/kg bw/day (Long-term, systemic effects)
Inhalative	DNEL (worker)	380 mg/m ³ (Long-term, systemic effects)
	DNEL (population)	114 mg/m ³ (Long-term, systemic effects)
67-64-1 acetone		
Oral	DNEL (population)	62 mg/kg bw/day (Long-term, systemic effects)
Dermal	DNEL (worker)	186 mg/kg bw/day (Long-term, systemic effects)
	DNEL (population)	62 mg/kg bw/day (Long-term, systemic effects)
Inhalative	DNEL (worker)	2.420 mg/m ³ (Acute, local effects) 1.210 mg/m ³ (Long-term, systemic effects)
	DNEL (population)	200 mg/m ³ (Long-term, systemic effects)
67-63-0 propan-2-ol		
Oral	DNEL (population)	51 mg/kg bw/day (Acute, systemic effects) 26 mg/kg bw/day (Long-term, systemic effects)
Dermal	DNEL (worker)	888 mg/kg bw/day (Long-term, systemic effects)
	DNEL (population)	319 mg/kg bw/day (Long-term, systemic effects)
Inhalative	DNEL (worker)	1.000 mg/m ³ (Acute, systemic effects) 500 mg/m ³ (Long-term, systemic effects)
	DNEL (population)	178 mg/m ³ (Acute, systemic effects) 89 mg/m ³ (Long-term, systemic effects)
71-23-8 propan-1-ol		
Oral	DNEL (population)	61 mg/kg bw/day (Long-term, systemic effects)

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Dermal	DNEL (worker)	136 mg/kg bw/day (Long-term, systemic effects)
	DNEL (population)	81 mg/kg bw/day (Long-term, systemic effects)
Inhalative	DNEL (worker)	1.723 mg/m ³ (Acute, systemic effects)
		268 mg/m ³ (Long-term, systemic effects)
	DNEL (population)	1.036 mg/m ³ (Acute, systemic effects)
		80 mg/m ³ (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 (worker)	153,5 mg/kg bw/day (Long-term, systemic effects)
	DNEL (population)	54,8 mg/kg bw/day (Long-term, systemic effects)
Inhalative	DNEL (worker)	550 mg/m ³ (Acute, local effects)
		275 mg/m ³ (Long-term, systemic effects)
	DNEL (population)	33 mg/m ³ (Acute, systemic effects)
		33 mg/m ³ (Long-term, systemic effects)

PNECs**123-86-4 Butyl acetate**

PNEC water	0,18 mg/l (freshwater)
	0,018 mg/l (marine water)
PNEC sediment	0,981 mg/kg dw (freshwater)
	0,0981 mg/kg dw (marine water)
PNEC soil	0,0903 mg/kg dw (soil)
PNEC	0,36 (intermittent releases)
PNEC STP	35,6 mg/l (sewage plant)

1330-20-7 xylene, mixed isomers, pure

PNEC water	0,327 mg/l (freshwater)
	0,327 mg/l (marine water)
PNEC	0,327 mg/l (intermittent releases)
PNEC sediment	12,46 mg/kg dw (freshwater)
	12,46 mg/kg dw (marine water)
PNEC soil	2,31 mg/kg dw (soil)
PNEC STP	6,58 mg/l (sewage plant)

141-78-6 ethyl acetate

PNEC water	0,24 mg/l (freshwater)
	0,024 mg/l (marine water)
PNEC	1,65 mg/l (intermittent releases)
PNEC sediment	1,15 mg/kg (freshwater)
	0,115 mg/kg (marine water)
PNEC STP	650 mg/l (sewage plant)
PNEC soil	0,148 mg/kg (soil)

108-88-3 toluene

PNEC	0,68 mg/l (water)
	13,61 mg/l (sewage plant)
PNEC	16,39 mg/kg dw (sediment)

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	2,89 mg/kg dw (sewage plant)
78-93-3 2-Butanone	
PNEC water	55,8 mg/l (freshwater) 55,8 mg/l (marine water)
PNEC sediment	284,74 mg/kg dw (freshwater) 284,7 mg/kg dw (marine water)
PNEC soil	22,5 mg/kg dw (soil)
PNEC STP	709 mg/l (sewage plant)
64-17-5 ethanol	
PNEC water	2,75 mg/l (intermittent releases) 0,96 mg/l (freshwater) 0,79 mg/l (marine water)
PNEC sediment	3,6 mg/kg dw (freshwater) 2,9 mg/kg dw (marine water)
PNEC soil	0,63 mg/kg dw (soil)
PNEC STP	580 mg/l (sewage plant)
67-64-1 acetone	
PNEC water	10,6 mg/l (freshwater) 1,06 mg/l (marine water)
PNEC	21 mg/l (intermittent releases) 100 mg/l (sewage plant)
PNEC sediment	30,4 mg/kg dw (freshwater) 3,04 mg/kg dw (marine water)
PNEC soil	29,5 mg/kg dw (soil)
71-23-8 propan-1-ol	
PNEC water	10 mg/l (intermittent releases) 10 mg/l (freshwater) 1 mg/l (marine water)
PNEC	96 mg/l (sewage plant)
PNEC sediment	22,8 mg/kg dw (freshwater) 2,28 mg/kg dw (marine water)
PNEC soil	2,2 mg/kg (soil)
108-65-6 2-methoxy-1-methylethyl acetate	
PNEC water	0,635 mg/l (freshwater) 0,0635 mg/l (Seawater)
PNEC	100 mg/l (sewage plant)
PNEC	0,29 mg/kg dw (soil)
PNEC sediment	3,29 mg/kg dw (freshwater) 0,329 mg/kg dw (marine water)

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Ingredients with biological limit values:	
1330-20-7 xylene, mixed isomers, pure	
BGW (Germany)	1,5 mg/l Untersuchungsmaterial: Vollblut Probennahmezeitpunkt: Expositionsende bzw. Schichtende Parameter: Xylol 2000 mg/L Untersuchungsmaterial: Urin Probennahmezeitpunkt: Expositionsende bzw. Schichtende Parameter: Methylhippur-(Tolur-)Säure (alle Isomere)
108-88-3 toluene	
BGW (Germany)	600 µg/l Untersuchungsmaterial: Vollblut Probennahmezeitpunkt: unmittelbar nach Exposition Parameter: Toluol 1,5 mg/l Untersuchungsmaterial: Urin Probennahmezeitpunkt: Expositionsende bzw. Schichtende, bei Langzeitexposition: am Schichtende nach mehreren vorangegangenen Schichten Parameter: o-Kresol (nach Hydrolyse) 75 µg/l Untersuchungsmaterial: Urin Probennahmezeitpunkt: Expositionsende bzw. Schichtende Parameter: Toluol
78-93-3 2-Butanone	
BGW (Germany)	2 mg/l Untersuchungsmaterial: Urin Probennahmezeitpunkt: Expositionsende bzw. Schichtende Parameter: 2-Butanon
67-64-1 acetone	
BGW (Germany)	80 mg/l Untersuchungsmaterial: Urin Probennahmezeitpunkt: Expositionsende bzw. Schichtende Parameter: Aceton
67-63-0 propan-2-ol	
BGW (Germany)	25 mg/l Untersuchungsmaterial: Vollblut Probennahmezeitpunkt: Expositionsende bzw. Schichtende Parameter: Aceton 25 mg/l Untersuchungsmaterial: Urin Probennahmezeitpunkt: Expositionsende bzw. Schichtende Parameter: Aceton

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

8.2 Exposure controls

Appropriate engineering controls

Room ventilation i.e. vacuum suction. Measures to be taken against electro-static sparks.

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Individual protection measures, such as personal protective equipment

General protective and hygienic measures

Keep away from food, beverages and fodder.

Instantly remove any soiled and impregnated garments.

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.

Hand protection

Protective gloves (EN 374).

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

Nitrile rubber, NBR

Fluorocarbon rubber (Viton)

Butyl rubber, BR

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye/face protection Tightly sealed safety glasses.

Body protection:

Standard protective clothing. Chemical resistant safety-shoes or boots. If skin contact is possible, wear impenetrable protective clothing against this solvent.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Colour:	Colourless
Smell:	Characteristic
Odour threshold:	Not determined.
Melting point/freezing point:	Not determined
Boiling point or initial boiling point and boiling range	76 °C
Flammability	Not applicable.
Lower and upper explosion limit	
Lower:	1,1 Vol %
Upper:	13 Vol %
Flash point:	<0 °C
Ignition temperature:	~250 °C
Decomposition temperature:	Not determined.
pH	not applicable
	Not determined.

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pH-value:	
Viscosity:	
Kinematic viscosity at 20 °C	20 s (DIN 53211/4)
dynamic:	Not determined.
Solubility	
Water:	Insoluble
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure at 20 °C:	100 hPa (141-78-6 ethyl acetate)
Density and/or relative density	
Density at 20 °C	0,857 g/cm ³
Relative density	Not determined.
Vapour density	Not determined.

9.2 Other information

Appearance:

Form: Fluid

Important information on protection of health and environment, and on safety.

Self-inflammability: Product is not selfigniting.

Explosive properties: Product is not explosive. However, formation of explosive air/steam mixtures is possible.

Evaporation rate: Not determined.

Information with regard to physical hazard classes

Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	
Highly flammable liquid and vapour.	
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

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.

Can be distilled without decomposing at normal pressure

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To avoid: warmth, flames, sparks

10.3 Possibility of hazardous reactions Violent reactions with oxidising agents possible.**10.4 Conditions to avoid** No further relevant information available.**10.5 Incompatible materials:** Strong oxidising agents, water, alkalis, acids**10.6 Hazardous decomposition products:**

Formation of carbon monoxide and carbon dioxide in case of fire.

Additional information: Attacks and dissolves many plastics.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

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

LD/LC50 values that are relevant for classification:

123-86-4 Butyl acetate

Oral	LD50	10.760 mg/kg (rat) (OECD 423)
Dermal	LD50	>14.112 mg/kg (rabbit) (OECD 402)
Inhalative	LC 50 / 4 h	>21 mg/l (rat)

1330-20-7 xylene, mixed isomers, pure

Oral	LD50	8.700 mg/kg (rat)
Dermal	LD50	2.000 mg/kg (rbt)
Inhalative	LC 50 / 4 h	10-20 mg/l (rat)

141-78-6 ethyl acetate

Oral	LD50	5.620 mg/kg (rat)
Dermal	LD50	>18.000 mg/kg (rabbit)
Inhalative	LC 50 / 4 h	56 mg/l (rat)

108-88-3 toluene

Oral	LD50	5.580 mg/kg (rat)
Dermal	LD50	12.124 mg/kg (rab)
Inhalative	LC 50 / 4 h	31 mg/l (rat)

78-93-3 2-Butanone

Oral	LD50	3.300 mg/kg (rat)
Dermal	LD50	5.000 mg/kg (rbt)
Inhalative	LC 50 / 4 h	34,5 mg/l (rat) 40 mg/l (mus)

64742-95-6 Hydrocarbons, C9, aromatics

Oral	LD50	>2.000 mg/kg (rat)
Dermal	LD50	>3.160 mg/kg (rabbit)

64742-49-0 naphtha (petroleum). hydrotreated, light

Oral	LD50	>5.840 mg/kg (rat)
Dermal	LD50	>2.920 mg/kg (rabbit)
Inhalative	LC 50 / 4 h	>25 mg/l (rat) (vapour)

64-17-5 ethanol

Oral	LD50	10.470 mg/kg (rat) (OECD 401)
Dermal	LD50	>2.000 mg/kg (rabbit) (OECD 402)
Inhalative	LC 50 / 4 h	>50 mg/l (rat) (OECD 403)

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		>20 mg/l (mouse)
67-64-1 acetone		
Oral	LD50	5.800 mg/kg (rat)
Dermal	LD50	7.426-15.800 mg/kg (rbt)
Inhalative	LC 50 / 4 h	76 mg/l (rat)
67-63-0 propan-2-ol		
Oral	LD50	5.840 mg/kg (rat) (OECD 401) 4.570 mg/kg (rat)
Dermal	LD50	>2.000 mg/kg (rabbit) 13.400 mg/kg (rab)
Inhalative	LC 50 / 4 h	30 mg/l (rat)
71-23-8 propan-1-ol		
Oral	LD50	>5.000 mg/kg (rat) (OECD 401)
Dermal	LD50	4.032 mg/kg (rab) (OECD 402)
Inhalative	LC 50 / 4 h	>33,8 mg/l (rat) (OECD 403)
108-65-6 2-methoxy-1-methylethyl acetate		
Oral	LD50	8.500 mg/kg (rat)
Dermal	LD50	>5.000 mg/kg (rat)
Inhalative	LC 50 / 4 h	35,7 mg/l (rat)

Skin corrosion/irritation

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.**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 respiratory irritation. May cause drowsiness or dizziness.

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard Based on available data, the classification criteria are not met.**Other information (about experimental toxicology):**

Toluene: According to the information available, a risk of reproductive toxicity (impairment of fertility or/and damage to fertility) must be suspected.

Classification: Repr. Cat. 3 (product is of concern for possible teratogenic effects).

STOT-repeated exposure:**141-78-6 ethyl acetate**

Oral	LOAEL	3.600 mg/kg/d (rat) (90-92 d)
	NOAEL	900 mg/kg (rat) (90-92 d)
Inhalative	NOEC	350 ppm (rat) (94 d, 6 h/d, 5 d/w)
	LOEC	350 ppm (rat) (94 d, 6 h/d, 5 d/w)
64-17-5 ethanol		
Oral	NOAEL	1.760 mg/kg (rat) (OECD 408, 90 d, target organ: liver)

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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:

Degreasing effect on skin.

Vapours in higher concentration have an irritating effect on the upper respiratory tract. Very high concentrations may cause dizziness, headaches and unconsciousness.

11.2 Information on other hazards

Endocrine disrupting properties		
78-93-3	2-Butanone	List II

* SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:	
123-86-4 Butyl acetate	
LC 50 / 96 h	18 mg/l (Pimephales promelas) (OECD 203)
EC 50 / 48 h	44 mg/l (Daphnia magna) (OECD 202)
EC 50 / 72 h	397 mg/l (Selenastrum capricornutum) (OECD 201 Wachstumsrate)
1330-20-7 xylene, mixed isomers, pure	
LC 50 / 96 h	86 mg/l (Leuciscus idus)
	1-10 mg/l (fish)
LC 50 / 72 h	1-10 mg/l (Algae)
	2-8 mg/l (Selenastrum capricornutum)
EC 50 / 48 h	1-10 mg/l (Aquatic invertebrates)
141-78-6 ethyl acetate	
LC 50 / 96 h	230 mg/l (Pimephales promelas)
EC 50 / 48 h	610 mg/l (Daphnia magna)
	5.600 mg/l (Scenedesmus subspicatus)
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	125-160 mg/l (Scenedesmus subspicatus)
EC 50 / 96 h	66 mg/l (Pimephales promelas)
78-93-3 2-Butanone	
LC 50 / 96 h	>3.000 mg/l (fish)
EC 50 / 48 h	1.382 mg/l (Daphnia)
64742-95-6 Hydrocarbons, C9, aromatics	
LC 50	1-10 mg/l (fish)
	1-10 mg/l (Aquatic invertebrates)
	1-10 mg/l (Algae)
64742-49-0 naphtha (petroleum). hydrotreated, light	
LC 50	10-100 mg/l (fish)

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LL 50 / 96 h	11,4 mg/l (Oncorhynchus mykiss)
EL 50 / 72 h	30-100 mg/l (Pseudokirchneriella subcapitata)
EL 50 / 48 h	3 mg/l (Daphnia magna)
EC 50	1-10 mg/l (Aquatic invertebrates)
	1-10 mg/l (Algae)
NOELR	2,045 mg/l (Oncorhynchus mykiss) (28 d)
	1 mg/l (Daphnia magna) (21 d (OECD 211))
	3 mg/l (Pseudokirchneriella subcapitata) (72h)
64-17-5 ethanol	
LC 50 / 48 h	8.140 mg/l (Leuciscus idus)
EC 50 / 48 h	>10.000 mg/l (Daphnia magna)
EC 50 / 72 h	275 mg/l (Chlorella vulgaris) (OECD 201)
67-64-1 acetone	
LC 50 / 96 h	7.500 mg/l (Leuciscus idus)
	5.540 mg/l (Oncorhynchus mykiss)
EC 50 / 48 h	8.800 mg/l (Daphnia magna)
EC 50 / 96 h	8.300 mg/l (Lepomis macrochirus)
	7.500 mg/l (Selenastrum capricornutum)
67-63-0 propan-2-ol	
LC 50 / 96 h	>10.000 mg/l (Pimephales promelas) (OECD 203 (Acute toxicity - fish))
LC 50 / 48 h	>100 mg/l (Leuciscus idus)
EC 50 / 48 h	>100 mg/l (Daphnia magna)
EC 50 / 16 h	1.050 mg/l (Pseudomonas putida) (DIN 38412 T.8)
EC 50 / 72 h	>100 mg/l (Scenedesmus subspicatus)
71-23-8 propan-1-ol	
LC 50 / 96 h	4.555 mg/l (Pimephales promelas) (OECD 203 (Acute toxicity - fish))
LC 50 / 48 h	3.200 mg/l (Salmo gairdneri)
EC 50 / 48 h	9.170 mg/l (Pseudokirchneriella subcapitata) (Wachstumsrate)
EC 50 / 48 h	3.640-8.150 mg/l (Daphnia magna) (DIN 38412 P.11)
NOEC	>100 mg/l (Daphnia magna) (OECD 211 (21D))
IC 50 / 3 h (static)	>1.000 mg/l (activated sludge (DEV - L2))
EC 10 / 16 h	2.700 mg/l (Pseudomonas putida)
108-65-6 2-methoxy-1-methylethyl acetate	
LC 50 / 96 h	100-180 mg/l (Oncorhynchus mykiss)
EC 50 / 48 h	>500 mg/l (Daphnia magna)
12.2 Persistence and degradability	
123-86-4 Butyl acetate	
DOC - Elimination	83 % (OECD 301 D)
67-63-0 propan-2-ol	
Biodegradability	49 % /BOD/ThBOD
Biodegradability	53 % /5 d, BSB5/CS (92/69/EG (L383) C.5 * Abbaubarkeit)
CSB	2,23 mg O2/g (Methode : Verordnung (EC) Nr. 440/2008, Anhang, C.)
BSB5	1,72 mg O2/g (Methode : Verordnung (EC) Nr. 440/2008, Anhang, C.)

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108-65-6 2-methoxy-1-methylethyl acetate

DOC - Elimination >90 % (OECD 302 B)

Biodegradability:

Toluene: BOD 5 (25 °C) = 73 % ThOD (adapted), BOD 28 (20 °C) = 86 % ThOD (adapted)

n-Butyl acetate: BOD 5 (20 °C) = 58 % ThOD

Acetone: BOD 5 (20 °C) = 84 % ThOD

12.3 Bioaccumulative potential No further relevant information available.**12.4 Mobility in soil** No further relevant information available.**12.5 Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**12.6 Endocrine disrupting properties** For information on endocrine disrupting properties see section 11.**12.7 Other adverse 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):****141-78-6 ethyl acetate**EC 10 / 16 h 650 mg/l (*Pseudomonas putida*) (DIN 38412 Part 8)**64-17-5 ethanol**EC 50 (static) >100 mg/l (*Chlorella pyrenoidosa*) (OECD 201)**71-23-8 propan-1-ol**EC 0 3.100 mg/l (*Scenedesmus quadricauda*)**Additional ecological information:****General notes:**

Water danger class 3 (Self-assessment): extremely hazardous for water.

Do not allow product to reach ground water, water bodies or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into soil.

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.

Contaminated water to separate by separator and dispose off in line with administrative regulations.

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:**

After complete emptying and cleaning, send to be reconditioned or recycled.

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.

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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 or ID number ADR/RID/ADN, IMDG, IATA	UN1993
14.2 UN proper shipping name ADR/RID/ADN IMDG, IATA	1993 FLAMMABLE LIQUID, N.O.S. (ETHYL ACETATE, TOLUENE), special provision 640D FLAMMABLE LIQUID, N.O.S. (ETHYL ACETATE, TOLUENE)
14.3 Transport hazard class(es) ADR/RID/ADN Class Label	3 (F1) Flammable liquids. 3
IMDG, IATA Class Label	3 Flammable liquids. 3
14.4 Packing group ADR/RID/ADN, IMDG, IATA	II
14.5 Environmental hazards: Marine pollutant:	Not applicable. No
14.6 Special precautions for user Kemler Number: EMS Number: Stowage Category	Warning: Flammable liquids. 33 F-E, S-E B
14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
Transport/Additional information:	
ADR/RID/ADN Limited quantities (LQ) Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
IMDG Limited quantities (LQ) Excepted quantities (EQ)	1L Código E4 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S., SPECIAL PROVISION 640D (ETHYL ACETATE, TOLUENE), 3, II

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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:

toluene

xylene, mixed isomers, pure

Butyl acetate

Hazard statements

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H361d Suspected of damaging the unborn child.

H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

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

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.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P273 Avoid release to the environment.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

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

P312 Call a POISON CENTER/doctor if you feel unwell.

P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

Seveso category P5c FLAMMABLE LIQUIDS

Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t

Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 48

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

REGULATION (EU) 2019/1148

Regulation (EC) No 273/2004 on drug precursors

108-88-3	toluene	3
78-93-3	2-Butanone	3

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67-64-1	acetone	3
Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors		
108-88-3	toluene	3
78-93-3	2-Butanone	3
67-64-1	acetone	3

National regulations

Information about limitation of use:

Employment restrictions concerning young persons must be observed.

VOC: 857,0 g/l

Other regulations, limitations and prohibitive regulations

Substances of very high concern (SVHC) according to REACH, Article 57

None of the ingredients is listed.

VOC (EU) 857,0 g/l**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.

This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

UFI market placements:

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.
- EUH066 Repeated exposure may cause skin dryness or cracking.

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

Date of previous version: 23.03.2022

Version number of previous version: 109.00

Abbreviations and acronyms:

LEV: Local Exhaust Ventilation

NOAEL: No Observed Adverse Effect Level

RPE: Respiratory Protective Equipment

RCR: Risk Characterisation Ratio (RCR= PEC/PNEC)

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

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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)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
SVHC: Substances of Very High Concern
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.**

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