### KochChemie<sup>®</sup> **ExcellenceForExperts.**

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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)

Revision date / version: 07.04.2025 / 0005

Replacing version dated / version: 09.12.2024 / 0004

Valid from: 07.04.2025 PDF print date: 07.04.2025

Fleckenwasser Art.: 36999

### Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by **Regulation (EU) 2020/878)**

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

#### 1.1 Product identifier

#### **Fleckenwasser**

Art.: 36999

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

Cleaner

#### **Uses advised against:**

No information available at present.

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

Koch-Chemie GmbH Einsteinstrasse 42 59423 Unna

Telefon: +49 (0) 2303 / 9 86 70 - 0 Fax: +49 (0) 2303 / 9 86 70 - 26

info@koch-chemie.com www.koch-chemie.com

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

#### 1.4 Emergency telephone number

#### **Emergency information services / official advisory body:**

National Poisons Information Centre, Beaumont Hospital, Dublin 9, Ireland, Tel.: +353 (0)1 809 2166 (Public Poisons Info Line, 8am-10pm, 7 days a week)

+353 (0)1 809 2566 (Info for Healthcare Professionals ONLY, 24 h, 7 days a week)

#### Telephone number of the company in case of emergencies:

+1 872 5888271 (KCC)

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

### Classification according to Regulation (EC) 1272/2008 (CLP)

Hazard class	Hazard category	Hazard statement
Flam. Liq.	2	H225-Highly flammable liquid and vapour.
Skin Sens.	1	H317-May cause an allergic skin reaction.

Asp. Tox. 1 H304-May be fatal if swallowed and enters airways.

STOT SE 3 H336-May cause drowsiness or dizziness.

**Aquatic Chronic** 2 H411-Toxic to aquatic life with long lasting effects.

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#### 2.2 Label elements

#### Labeling according to Regulation (EC) 1272/2008 (CLP)



#### Danger

H225-Highly flammable liquid and vapour. H317-May cause an allergic skin reaction. H304-May be fatal if swallowed and enters airways. H336-May cause drowsiness or dizziness. H411-Toxic to aquatic life with long lasting effects.

P210-Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P261-Avoid breathing vapours or spray. P273-Avoid release to the environment. P280-Wear protective gloves.

P301+P310-IF ŚWALLOWED: Immediately call a POISON CENTER / doctor. P312-Call a POISON CENTRE / doctor if you feel unwell. P331-Do NOT induce vomiting.

EUH066-Repeated exposure may cause skin dryness or cracking.

Propan-2-ol (R)-p-mentha-1,8-diene Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics Citral

#### 2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any substance with endocrine disrupting properties (< 0,1 %).

#### **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

### n.a. 3.2 Mixtures

0.2	
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	
Registration number (REACH)	01-2119473851-33-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	920-750-0
CAS	
content %	75-<100
Classification according to Regulation (EC) 1272/2008 (CLP), M-	EUH066
factors	Flam. Liq. 2, H225
	STOT SE 3, H336
	Asp. Tox. 1, H304
	Aquatic Chronic 2, H411

Propan-2-ol	
Registration number (REACH)	01-2119457558-25-XXXX
	·

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Index	603-117-00-0
EINECS, ELINCS, NLP, REACH-IT List-No.	200-661-7
CAS	67-63-0
content %	1-<5
Classification according to Regulation (EC) 1272/2008 (CLP), M-	Flam. Liq. 2, H225
factors	Eye Irrit. 2, H319
	STOT SF 3, H336

(R)-p-mentha-1,8-diene	
Registration number (REACH)	01-2119529223-47-XXXX
Index	601-096-00-2
EINECS, ELINCS, NLP, REACH-IT List-No.	227-813-5
CAS	5989-27-5
content %	1-<5
Classification according to Regulation (EC) 1272/2008 (CLP), M-	Flam. Liq. 3, H226
factors	Skin Irrit. 2, H315
	Skin Sens. 1B, H317
	Asp. Tox. 1, H304
	Aquatic Acute 1, H400 (M=1)
	Aquatic Chronic 3, H412

n-butyl acetate	Substance for which an EU exposure limit value applies.
Registration number (REACH)	01-2119485493-29-XXXX
Index	607-025-00-1
EINECS, ELINCS, NLP, REACH-IT List-No.	204-658-1
CAS	123-86-4
content %	1-<5
Classification according to Regulation (EC) 1272/2008 (CLP), M-	EUH066
factors	Flam. Liq. 3, H226
	STOT SE 3 H336

Acetone	Substance for which an EU exposure limit value applies.
Registration number (REACH)	01-2119471330-49-XXXX
Index	606-001-00-8
EINECS, ELINCS, NLP, REACH-IT List-No.	200-662-2
CAS	67-64-1
content %	1-<5
Classification according to Regulation (EC) 1272/2008 (CLP), M-	EUH066
factors	Flam. Liq. 2, H225
	Eye Irrit. 2, H319
	STOT SE 3, H336

Butanone	Substance for which an EU exposure limit value applies.
Registration number (REACH)	01-2119457290-43-XXXX
Index	606-002-00-3
EINECS, ELINCS, NLP, REACH-IT List-No.	201-159-0
CAS	78-93-3
content %	1-<5
Classification according to Regulation (EC) 1272/2008 (CLP), M-	EUH066
factors	Flam. Liq. 2, H225
	Eye Irrit. 2, H319
	STOT SE 3, H336

Citral	
Registration number (REACH)	01-2119462829-23-XXXX
Index	605-019-00-3
EINECS, ELINCS, NLP, REACH-IT List-No.	226-394-6
Line Co, Lein Co, Nei , Nexon II Elot No.	220 00 1 0

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CAS	5392-40-5
content %	0,1-<1
Classification according to Regulation (EC) 1272/2008 (CLP), M-	Skin Irrit. 2, H315
factors	Eye Irrit. 2, H319
	Skin Sens. 1, H317

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

The substances named in this section are given with their actual, appropriate classification!

For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

The addition of the highest concentrations listed here can result in a classification. Only when this classification is listed in Section 2 does it apply. In all other cases the total concentration is below the classification.

#### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

First-aiders should ensure they are protected!

Never pour anything into the mouth of an unconscious person!

#### Inhalation

Remove person from danger area.

Supply person with fresh air and consult doctor according to symptoms.

If the person is unconscious, place in a stable side position and consult a doctor.

#### Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

#### **Eve contact**

Remove contact lenses.

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

#### Ingestion

Rinse the mouth thoroughly with water.

Do not induce vomiting. Consult doctor immediately.

Danger of aspiration.

In case of vomiting, keep head low so that the stomach content does not reach the lungs.

Immediate admittance to a hospital.

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

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1.

In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

Coughing

Headaches

Dizziness

Fatigue

Coordination disorders

Unconsciousness

Drying of the skin.

Dermatitis (skin inflammation)

Allergic reaction

Ingestion:

Nausea

Vomiting

Danger of aspiration.

Oedema of the lungs

Chemical pneumonitis (condition similar to pneumonia)

#### 4.3 Indication of any immediate medical attention and special treatment needed

Gastric lavage (stomach washing) only under endotracheal intubation.

Pulmonary oedema prophylaxis

Subsequent observation for pneumonia and pulmonary oedema.

#### **SECTION 5: Firefighting measures**

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### 5.1 Extinguishing media Suitable extinguishing media

CO<sub>2</sub>

Extinction powder Water jet spray Alcohol resistant foam

#### Unsuitable extinguishing media

High volume water jet

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

In case of fire the following can develop:

Oxides of carbon

Toxic gases

Possible build up of explosive/highly flammable vapour/air mixture.

#### 5.3 Advice for firefighters

For personal protective equipment see Section 8.

In case of fire and/or explosion do not breathe fumes.

Protective respirator with independent air supply.

According to size of fire

Full protection, if necessary.

Cool container at risk with water.

Dispose of contaminated extinction water according to official regulations.

#### SECTION 6: Accidental release measures

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

#### 6.1.1 For non-emergency personnel

In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination.

Ensure sufficient ventilation, remove sources of ignition.

Avoid dust formation with solid or powder products.

Leave the danger zone if possible, use existing emergency plans if necessary.

Avoid inhalation, and contact with eyes or skin.

If applicable, caution - risk of slipping.

#### 6.1.2 For emergency responders

See section 8 for suitable protective equipment and material specifications.

#### 6.2 Environmental precautions

If leakage occurs, dam up.

Resolve leaks if this possible without risk.

Prevent surface and ground-water infiltration, as well as ground penetration.

Prevent from entering drainage system.

If accidental entry into drainage system occurs, inform responsible authorities.

#### 6.3 Methods and material for containment and cleaning up

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth) and dispose of according to Section 13. Use no flammable substances.

Fill the absorbed material into lockable containers.

#### 6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

#### **SECTION 7: Handling and storage**

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

#### 7.1 Precautions for safe handling

#### 7.1.1 General recommendations

Ensure good ventilation.

Avoid inhalation of the vapours.

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If applicable, suction measures at the workstation or on the processing machine necessary.

Keep away from sources of ignition - Do not smoke.

Take measures against electrostatic charging, if appropriate.

Use explosion-proof equipment / explosion-protected tools if necessary.

Avoid contact with eyes or skin.

Also seal emptied tanks and tanks in the process after they have been used.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Observe directions on label and instructions for use.

Use working methods according to operating instructions.

#### 7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

#### 7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals.

Store product closed and only in original packing.

Not to be stored in gangways or stair wells.

Under all circumstances prevent penetration into the soil.

Observe special storage conditions.

Do not store with flammable or self-igniting materials.

Protect from direct sunlight and warming.

Earth devices.

Store in a well ventilated place.

Store cool.

#### 7.3 Specific end use(s)

No information available at present.

Observe the instructions for good working practice and the recommendations for risk assessment.

Consult hazardous substance information systems, e.g. from the professional associations, the chemical industry or different industries,

depending on the application (building materials, wood, chemistry, laboratory, leather, metal).

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

Workplace exposure limit (WEL) of the total hydrocarbon solvent content of the mixture (RCP method according to EH40): 1200 mg/m3

Chemical Name Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics			
WEL-TWA: 1200 mg/m3	WEL-STEL:		
Monitoring procedures:	<ul> <li>Draeger - Hydrocarbo</li> </ul>		
- Draeger - Hydrocarbons 2/a (81 03 581)			
- Compur - KITA-187 S (551 174)			
BMGV:		Other information:	(OEL acc. to RCP-
		method, paragraphs	84-87, EH40)
© Chemical Name	Hydrocarbons, C7-C9, n-alkanes, isoal	lkanes, cyclics	
OELV-8h: 100 ppm (573 mg/m3	3) ("Stoddard OELV-15min:		
solvent", [White spirit])			
Monitoring procedures:	<ul> <li>Draeger - Hydrocarbo</li> </ul>	ns 0,1%/c (81 03 571)	
	<ul> <li>Draeger - Hydrocarbo</li> </ul>		
	- Compur - KITA-187 S	(551 174)	
BLV:		Other information:	
Chemical Name	Propan-2-ol		
WEL-TWA: 400 ppm (999 mg/n	n3) WEL-STEL: 500	opm (1250 mg/m3)	
Monitoring procedures:	<ul> <li>Draeger - Alcohol 25/a</li> </ul>	a i-Propanol (81 01 631)	
	- Compur - KITA-122 S.	A(C) (549 277)	

Compur - KITA-150 U (550 382)

® ® M — — — — — — — — — — — — — — — — —		
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7111 00000		
	DFG (D) (Loesungsmittelgemische), DFG (E) (Solvent	mixtures 6) - 2013, 2002 -
-	EU project BC/CEN/ENTR/000/2002-16 card 66-3 (200	
-	NIOSH 1400 (ALCOHOLS I) - 1994	-,
-	NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SO	CREENING)) - 1996
-	Draeger - Alcohol 100/a (CH 29 701)	- //
BMGV:	Other information: -	
Chemical Name Propan-2-ol	<u>'</u>	
Chemical Name Propan-2-ol OELV-8h: 200 ppm	OELV-15min: 400 ppm	
Monitoring procedures:	Draeger - Alcohol 25/a i-Propanol (81 01 631)	
Monitoring procedures.	Compur - KITA-122 SA(C) (549 277)	
<u> </u>	Compur - KITA-150 U (550 382)	
	DFG (D) (Loesungsmittelgemische), DFG (E) (Solvent	miytures 6) - 2013 2002
_	EU project BC/CEN/ENTR/000/2002-16 card 66-3 (200	
- -	NIOSH 1400 (ALCOHOLS I) - 1994	'1
_	NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SO	CREENING)) - 1996
-	Draeger - Alcohol 100/a (CH 29 701)	31(22(111(3)) 1000
BLV: 40 mg/l (acetone, U, d) (ACGIH-BEI)		Skin
Chemical Name n-butyl acetate		
WEL-TWA: 150 ppm (724 mg/m3) (WEL-TWA),		
50 ppm (241 mg/m3) (EU)	150 ppm (723 mg/m3) (EU)	
Monitoring procedures: -	Comput - KITA 138 U (548 857)	
-	Compur - KITA-139 SB(C) (549 731) NIOSH 1450 (ESTERS 1) - 2003	
-	NIOSH 1450 (ESTERS 1) - 2003 NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SO	CREENING)\ 1006
-	OSHA 1009 (n-Butyl Acetate Isobutyl Acetate sec-Butyl	
_	Acetate) - 2007	Acetate tert-butyl
BMGV:		
Chemical Name n-butyl acetate		
© Chemical Name n-butyl acetate OELV-8h: 50 ppm (241 mg/m3) (OELV-8h, EU)		
OELV-8n: 50 ppm (241 mg/m3) (OELV-8n, EU)	OELV-15min: 150 ppm (723 mg/m3) (OELV-	
Manitoring procedures:	15min, EU) Compur - KITA-138 U (548 857)	
Monitoring procedures:	Comput - KITA-138 & (348 637) Comput - KITA-139 SB(C) (549 731)	
<u> </u>	NIOSH 1450 (ESTERS 1) - 2003	
	NIOSH 1430 (ESTERS 1) - 2003 NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SO	PREENING)) - 1996
	OSHA 1009 (n-Butyl Acetate Isobutyl Acetate sec-Butyl	
_	Acetate) - 2007	Acetate tert-butyl
BLV:		OELV
DLV	Other information.	OLLV
OELV-8h: 50 ppm (241 mg/m3) (OELV-8h, EU)	OELV-ST: 150 ppm (723 mg/m3) (OELV-ST, EU)	
OELV-8h: 50 ppm (241 mg/m3) (OELV-8h, EU) Monitoring procedures: -	OELV-ST: 150 ppm (723 mg/m3) (OELV-ST, EU) Compur - KITA-138 U (548 857)	
OELV-8h: 50 ppm (241 mg/m3) (OELV-8h, EU)	OELV-ST: 150 ppm (723 mg/m3) (OELV-ST, EU) Compur - KITA-138 U (548 857) Compur - KITA-139 SB(C) (549 731)	
OELV-8h: 50 ppm (241 mg/m3) (OELV-8h, EU) Monitoring procedures: -	OELV-ST: 150 ppm (723 mg/m3) (OELV-ST, EU) Compur - KITA-138 U (548 857) Compur - KITA-139 SB(C) (549 731) NIOSH 1450 (ESTERS 1) - 2003	
OELV-8h: 50 ppm (241 mg/m3) (OELV-8h, EU) Monitoring procedures: -	OELV-ST: 150 ppm (723 mg/m3) (OELV-ST, EU) Compur - KITA-138 U (548 857) Compur - KITA-139 SB(C) (549 731) NIOSH 1450 (ESTERS 1) - 2003 NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SC	CREENING)) - 1996
OELV-8h: 50 ppm (241 mg/m3) (OELV-8h, EU) Monitoring procedures: -	OELV-ST: 150 ppm (723 mg/m3) (OELV-ST, EU) Compur - KITA-138 U (548 857) Compur - KITA-139 SB(C) (549 731) NIOSH 1450 (ESTERS 1) - 2003 NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SOUTH SEATON OF COMPOUNDS) OSHA 1009 (n-Butyl Acetate Isobutyl Acetate sec-Butyl	CREENING)) - 1996
OELV-8h: 50 ppm (241 mg/m3) (OELV-8h, EU)  Monitoring procedures:	OELV-ST: 150 ppm (723 mg/m3) (OELV-ST, EU) Compur - KITA-138 U (548 857) Compur - KITA-139 SB(C) (549 731) NIOSH 1450 (ESTERS 1) - 2003 NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SOUSHA 1009 (n-Butyl Acetate Isobutyl Acetate sec-Butyl Acetate) - 2007	CREENING)) - 1996 Acetate tert-Butyl
OELV-8h: 50 ppm (241 mg/m3) (OELV-8h, EU)  Monitoring procedures:	OELV-ST: 150 ppm (723 mg/m3) (OELV-ST, EU) Compur - KITA-138 U (548 857) Compur - KITA-139 SB(C) (549 731) NIOSH 1450 (ESTERS 1) - 2003 NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SOUSHA 1009 (n-Butyl Acetate Isobutyl Acetate sec-Butyl Acetate) - 2007	CREENING)) - 1996
OELV-8h: 50 ppm (241 mg/m3) (OELV-8h, EU)  Monitoring procedures:  BMGV:  Chemical Name  Acetone	OELV-ST: 150 ppm (723 mg/m3) (OELV-ST, EU)  Compur - KITA-138 U (548 857)  Compur - KITA-139 SB(C) (549 731)  NIOSH 1450 (ESTERS 1) - 2003  NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SOUTH NOT COMPOUNDS)  OSHA 1009 (n-Butyl Acetate Isobutyl Acetate sec-Butyl Acetate) - 2007  Other information: -	CREENING)) - 1996 Acetate tert-Butyl
OELV-8h: 50 ppm (241 mg/m3) (OELV-8h, EU)  Monitoring procedures:  BMGV:	OELV-ST: 150 ppm (723 mg/m3) (OELV-ST, EU)  Compur - KITA-138 U (548 857)  Compur - KITA-139 SB(C) (549 731)  NIOSH 1450 (ESTERS 1) - 2003  NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SOUTH NOT COMPOUNDS)  OSHA 1009 (n-Butyl Acetate Isobutyl Acetate sec-Butyl Acetate) - 2007  Other information: -	CREENING)) - 1996 Acetate tert-Butyl
OELV-8h: 50 ppm (241 mg/m3) (OELV-8h, EU)  Monitoring procedures:	OELV-ST: 150 ppm (723 mg/m3) (OELV-ST, EU)  Compur - KITA-138 U (548 857)  Compur - KITA-139 SB(C) (549 731)  NIOSH 1450 (ESTERS 1) - 2003  NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (St OSHA 1009 (n-Butyl Acetate Isobutyl Acetate sec-Butyl Acetate) - 2007  Other information: -  WEL-STEL: 1500 ppm (3620 mg/m3) (WEL-STEL)	CREENING)) - 1996 Acetate tert-Butyl
OELV-8h: 50 ppm (241 mg/m3) (OELV-8h, EU)  Monitoring procedures:	OELV-ST: 150 ppm (723 mg/m3) (OELV-ST, EU)  Compur - KITA-138 U (548 857)  Compur - KITA-139 SB(C) (549 731)  NIOSH 1450 (ESTERS 1) - 2003  NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (St OSHA 1009 (n-Butyl Acetate Isobutyl Acetate sec-Butyl Acetate) - 2007  Other information: -  WEL-STEL: 1500 ppm (3620 mg/m3) (WEL-STEL)  Draeger - Acetone 100/b (CH 22 901)	CREENING)) - 1996 Acetate tert-Butyl
OELV-8h: 50 ppm (241 mg/m3) (OELV-8h, EU)  Monitoring procedures:  BMGV:  BMGV:  Chemical Name Acetone WEL-TWA: 500 ppm (1210 mg/m3) (WEL-TWA,	OELV-ST: 150 ppm (723 mg/m3) (OELV-ST, EU)  Compur - KITA-138 U (548 857)  Compur - KITA-139 SB(C) (549 731)  NIOSH 1450 (ESTERS 1) - 2003  NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (St OSHA 1009 (n-Butyl Acetate Isobutyl Acetate sec-Butyl Acetate) - 2007  Other information: -  WEL-STEL: 1500 ppm (3620 mg/m3) (WEL-STEL)  Draeger - Acetone 100/b (CH 22 901)  Draeger - Acetone 40/a (5) (81 03 381)	CREENING)) - 1996 Acetate tert-Butyl
OELV-8h: 50 ppm (241 mg/m3) (OELV-8h, EU)  Monitoring procedures:	OELV-ST: 150 ppm (723 mg/m3) (OELV-ST, EU)  Compur - KITA-138 U (548 857)  Compur - KITA-139 SB(C) (549 731)  NIOSH 1450 (ESTERS 1) - 2003  NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SIOSHA 1009 (n-Butyl Acetate Isobutyl Acetate sec-Butyl Acetate) - 2007  Other information: -  WEL-STEL: 1500 ppm (3620 mg/m3) (WELSTEL)  Draeger - Acetone 100/b (CH 22 901)  Draeger - Acetone 40/a (5) (81 03 381)  Compur - KITA-102 SA (548 534)	CREENING)) - 1996 Acetate tert-Butyl
OELV-8h: 50 ppm (241 mg/m3) (OELV-8h, EU)  Monitoring procedures:	OELV-ST: 150 ppm (723 mg/m3) (OELV-ST, EU)  Compur - KITA-138 U (548 857)  Compur - KITA-139 SB(C) (549 731)  NIOSH 1450 (ESTERS 1) - 2003  NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (St OSHA 1009 (n-Butyl Acetate Isobutyl Acetate sec-Butyl Acetate) - 2007  Other information: -  WEL-STEL: 1500 ppm (3620 mg/m3) (WEL-STEL)  Draeger - Acetone 100/b (CH 22 901)  Draeger - Acetone 40/a (5) (81 03 381)  Compur - KITA-102 SA (548 534)  Compur - KITA-102 SC (548 550)	CREENING)) - 1996 Acetate tert-Butyl
OELV-8h: 50 ppm (241 mg/m3) (OELV-8h, EU)  Monitoring procedures:	OELV-ST: 150 ppm (723 mg/m3) (OELV-ST, EU)  Compur - KITA-138 U (548 857)  Compur - KITA-139 SB(C) (549 731)  NIOSH 1450 (ESTERS 1) - 2003  NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (St OSHA 1009 (n-Butyl Acetate Isobutyl Acetate sec-Butyl Acetate) - 2007  Other information: -  WEL-STEL: 1500 ppm (3620 mg/m3) (WEL-STEL)  Draeger - Acetone 100/b (CH 22 901)  Draeger - Acetone 40/a (5) (81 03 381)  Compur - KITA-102 SA (548 534)  Compur - KITA-102 SC (548 550)  Compur - KITA-102 SD (551 109)	CREENING)) - 1996 Acetate tert-Butyl
OELV-8h: 50 ppm (241 mg/m3) (OELV-8h, EU)  Monitoring procedures:	OELV-ST: 150 ppm (723 mg/m3) (OELV-ST, EU)  Compur - KITA-138 U (548 857)  Compur - KITA-139 SB(C) (549 731)  NIOSH 1450 (ESTERS 1) - 2003  NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (St OSHA 1009 (n-Butyl Acetate Isobutyl Acetate sec-Butyl Acetate) - 2007  Other information: -  WEL-STEL: 1500 ppm (3620 mg/m3) (WEL-STEL)  Draeger - Acetone 100/b (CH 22 901)  Draeger - Acetone 40/a (5) (81 03 381)  Compur - KITA-102 SA (548 534)  Compur - KITA-102 SC (548 550)  Compur - KITA-102 SD (551 109)  INSHT MTA/MA-031/A96 (Determination of ketones (acetate)	CREENING)) - 1996 Acetate tert-Butyl cetone, methyl ethyl
OELV-8h: 50 ppm (241 mg/m3) (OELV-8h, EU)  Monitoring procedures:	OELV-ST: 150 ppm (723 mg/m3) (OELV-ST, EU)  Compur - KITA-138 U (548 857)  Compur - KITA-139 SB(C) (549 731)  NIOSH 1450 (ESTERS 1) - 2003  NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (St OSHA 1009 (n-Butyl Acetate Isobutyl Acetate sec-Butyl Acetate) - 2007  Other information: -  WEL-STEL: 1500 ppm (3620 mg/m3) (WEL-STEL)  Draeger - Acetone 100/b (CH 22 901)  Draeger - Acetone 40/a (5) (81 03 381)  Compur - KITA-102 SA (548 534)  Compur - KITA-102 SC (548 550)  Compur - KITA-102 SD (551 109)  INSHT MTA/MA-031/A96 (Determination of ketones (acketone, methyl isobutyl ketone) in air - Charcoal tube m	CREENING)) - 1996 Acetate tert-Butyl cetone, methyl ethyl ethod / Gas
OELV-8h: 50 ppm (241 mg/m3) (OELV-8h, EU)  Monitoring procedures:	OELV-ST: 150 ppm (723 mg/m3) (OELV-ST, EU)  Compur - KITA-138 U (548 857)  Compur - KITA-139 SB(C) (549 731)  NIOSH 1450 (ESTERS 1) - 2003  NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (St OSHA 1009 (n-Butyl Acetate Isobutyl Acetate sec-Butyl Acetate) - 2007  Other information: -  WEL-STEL: 1500 ppm (3620 mg/m3) (WEL-STEL)  Draeger - Acetone 100/b (CH 22 901)  Draeger - Acetone 40/a (5) (81 03 381)  Compur - KITA-102 SA (548 534)  Compur - KITA-102 SC (548 550)  Compur - KITA-102 SD (551 109)  INSHT MTA/MA-031/A96 (Determination of ketones (acetate)	CREENING)) - 1996 Acetate tert-Butyl cetone, methyl ethyl ethod / Gas

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GB (RL) M Page 8 of 35 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878) Revision date / version: 07.04.2025 / 0005 Replacing version dated / version: 09.12.2024 / 0004 Valid from: 07.04.2025 PDF print date: 07.04.2025 Fleckenwasser Art.: 36999 MDHS 72 (Volatile organic compounds in air – Laboratory method using pumped solid sorbent tubes, thermal desorption and gas chromatography) - 1993 NIOSH 1300 (KETONES I) - 1994 NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996 NIOSH 2555 (KETONES I) - 2003 NIOSH 3800 (ORGANIC AND INORGANIC GASES BY EXTRACTIVE FTIR SPECTROMETRY) - 2016 OSHA 69 (Acetone) - 1988 BMGV: ---Other information: --- Chemical Name Acetone OELV-8h: 500 ppm (1210 mg/m3) (OELV-8h, OELV-15min: EU) Monitoring procedures: Draeger - Acetone 100/b (CH 22 901) Draeger - Acetone 40/a (5) (81 03 381) Compur - KITA-102 SA (548 534) Compur - KITA-102 SC (548 550) Compur - KITA-102 SD (551 109) INSHT MTA/MA-031/A96 (Determination of ketones (acetone, methyl ethyl ketone, methyl isobutyl ketone) in air - Charcoal tube method / Gas chromatography) - 1996 - EU project BC/CEN/ENTR/000/2002-16 card 67-1 MDHS 72 (Volatile organic compounds in air - Laboratory method using pumped solid sorbent tubes, thermal desorption and gas chromatography) - 1993 NIOSH 1300 (KETONES I) - 1994 NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996 NIOSH 2555 (KETONES I) - 2003 NIOSH 3800 (ORGANIC AND INORGANIC GASES BY EXTRACTIVE FTIR SPECTROMETRY) - 2016 OSHA 69 (Acetone) - 1988 BLV: 50 mg/l (U, b) (ACGIH-BEI) Other information: **IOELV** M Chemical Name Acetone OELV-8h: 500 ppm (1210 mg/m3) (OELV-8h, OELV-ST: ---Draeger - Acetone 100/b (CH 22 901) Monitoring procedures: Draeger - Acetone 40/a (5) (81 03 381) Compur - KITA-102 SA (548 534) Compur - KITA-102 SC (548 550) Compur - KITA-102 SD (551 109) INSHT MTA/MA-031/A96 (Determination of ketones (acetone, methyl ethyl ketone, methyl isobutyl ketone) in air - Charcoal tube method / Gas chromatography) - 1996 - EU project BC/CEN/ENTR/000/2002-16 card 67-1 MDHS 72 (Volatile organic compounds in air – Laboratory method using pumped solid sorbent tubes, thermal desorption and gas chromatography) - 1993 NIOSH 1300 (KETONES I) - 1994 NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996 NIOSH 2555 (KETONES I) - 2003 NIOSH 3800 (ORGANIC AND INORGANIC GASES BY EXTRACTIVE FTIR SPECTROMETRY) - 2016 OSHA 69 (Acetone) - 1988 BMGV: ---Other information: © Chemical Name Butanone WEL-TWA: 200 ppm (600 mg/m3) (WEL-TWA, WEL-STEL: 300 ppm (899 mg/m3) (WEL-STEL), 300 ppm (900 mg/m3) (EU) Monitoring procedures: Compur - KITA-122 SA(C) (549 277) Compur - KITA-139 SB (549 731) Compur - KITA-139 U (549 749) DFG Meth.-Nr. 4 (D) (Loesungsmittelgemische 4), DFG (E) (Solvent mixtures 4) -2015, 2002

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Area of application	-alkanes, isoalkanes, cycli Exposure route / Environmental compartment	Effect on health	Descripto r	Value	Unit	Note
Consumer	Human - dermal	Long term, systemic effects	DNEL	699	mg/kg bw/d	
Consumer	Human - inhalation	Long term, systemic effects	DNEL 608 mg		mg/m3	
Consumer	Human - oral	Long term, systemic effects	DNEL	699	mg/kg bw/d	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	773	mg/kg bw/d	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	2035	mg/m3	

Propan-2-ol Area of application	Exposure route /	Effect on health	Descripto	Value	Unit	Note
	Environmental		r			
	compartment					
	Environment - freshwater		PNEC	140,9	mg/l	
	Environment - marine		PNEC	140,9	mg/l	
	Environment - sediment, freshwater		PNEC	552	mg/kg dw	
	Environment - sediment, marine		PNEC	552	mg/kg dw	
	Environment - soil		PNEC	28	mg/kg dw	
	Environment - sewage treatment plant		PNEC	2251	mg/l	
	Environment - water, sporadic (intermittent) release		PNEC	140,9	mg/l	
	Environment - oral (animal feed)		PNEC	160	mg/kg feed	
Consumer	Human - dermal	Long term, systemic effects	DNEL	319	mg/kg bw/day	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	89	mg/m3	
Consumer	Human - oral	Long term, systemic effects	DNEL	26	mg/kg bw/day	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	888	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	500	mg/m3	

R)-p-mentha-1,8-diene						
Area of application	Exposure route / Environmental	Effect on health	Descripto r	Value	Unit	Note
	compartment					
	Environment - freshwater		PNEC	14	μg/l	
	Environment - marine		PNEC	1,4	μg/l	
	Environment - sewage		PNEC	1,8	mg/l	
	treatment plant					
	Environment - sediment,		PNEC	3,85	mg/kg dry	
	freshwater				weight	
	Environment - sediment,		PNEC	0,3851	mg/kg dry	
	marine				weight	

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	Environment - soil		PNEC	0,763	mg/kg dry weight	
	Environment - oral (animal feed)		PNEC	133	mg/kg	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	66,7	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	9,5	mg/kg body weight/day	

Area of application	Exposure route / Environmental compartment	Effect on health	Descripto r	Value	Unit	Note
	Environment - freshwater		PNEC	0,18	mg/l	
	Environment - marine		PNEC	0,018	mg/l	
	Environment - periodic release		PNEC	0,36	mg/l	
	Environment - sediment, freshwater		PNEC	0,981	mg/kg	
	Environment - sediment, marine		PNEC	0,0981	mg/kg	
	Environment - soil		PNEC	0,0903	mg/kg	
	Environment - sewage treatment plant		PNEC	35,6	mg/l	
Consumer	Human - dermal	Long term, systemic effects	DNEL	6	mg/kg	
Consumer	Human - inhalation	Short term, systemic effects	DNEL	300	mg/m3	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	35,7	mg/m3	
Consumer	Human - dermal	Short term, systemic effects	DNEL	6	mg/kg bw/day	
Consumer	Human - oral	Long term, systemic effects	DNEL	2	mg/kg bw/day	
Consumer	Human - oral	Short term, systemic effects	DNEL	2	mg/kg bw/day	
Consumer	Human - inhalation	Short term, local effects	DNEL	300	mg/m3	
Consumer	Human - inhalation	Long term, local effects	DNEL	35,7	mg/m3	
Workers / employees	Human - dermal	Long term, local effects	DNEL	11	mg/kg body weight/day	
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	600	mg/m3	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	300	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects Short term, systemic	DNEL	11	mg/kg bw/d	
Workers / employees	ers / employees Human - dermal		DNEL	11	mg/kg bw/day	
Workers / employees	employees Human - inhalation Short term, loc effects		DNEL	600	mg/m3	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	300	mg/m3	

#### Acetone

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Area of application	Exposure route / Environmental compartment	Effect on health	Descripto r	Value	Unit	Note
	Environment - marine		PNEC	1,06	mg/l	Assessme nt factor 500
	Environment - freshwater		PNEC	10,6	mg/l	Assessme nt factor 50
	Environment - sediment, freshwater		PNEC	30,4	mg/kg dw	
	Environment - sediment, marine		PNEC	3,04	mg/kg dw	
	Environment - soil		PNEC	29,5	mg/kg dw	
	Environment - sewage treatment plant		PNEC	100	mg/l	
	Environment - sporadic (intermittent) release		PNEC	21	mg/l	Assessme nt factor 100
Consumer	Human - oral	Long term, systemic effects	DNEL	62	mg/kg bw/day	Overall assessme nt factor 2
Consumer	Human - dermal	Long term, systemic effects	DNEL	62	mg/kg bw/day	Overall assessme nt factor 20
Consumer	Human - inhalation	Long term, systemic effects	DNEL	200	mg/m3	Overall assessme nt factor 5
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	186	mg/kg bw/day	
Workers / employees	Human - inhalation	Short term, local effects	DNEL	2420	mg/m3	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	1210	mg/m3	

Butanone						
Area of application	Exposure route /	Effect on health	Descripto	Value	Unit	Note
	Environmental		r			
	compartment					
	Environment - freshwater		PNEC	55,8	mg/l	
	Environment - marine		PNEC	55,8	mg/l	
	Environment - sediment, freshwater		PNEC	284,74	mg/kg dw	
	Environment - sediment, marine		PNEC	284,7	mg/kg dw	
	Environment - soil		PNEC	22,5	mg/kg dw	
	Environment - sewage treatment plant		PNEC	709	mg/l	
	Environment - sporadic (intermittent) release		PNEC	55,8	mg/l	
	Environment - oral (animal feed)		PNEC	1000	mg/kg	
Consumer	Human - dermal	Long term	DNEL	412	mg/kg bw/day	Overall assesment factor 2
Consumer	Human - inhalation	Long term	DNEL	106	mg/m3	Overall assesment factor 2

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Consumer	Human - oral	Long term	DNEL	31	mg/kg bw/day	Overall assesment factor 2
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	1161	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	600	mg/m3	

Area of application	Exposure route / Environmental compartment	Effect on health	Descripto r	Value	Unit	Note
	Environment - freshwater		PNEC	0,00678	mg/l	
	Environment - marine		PNEC	0,00067	mg/l	
	Environment - water, sporadic (intermittent) release		PNEC	0,0678	mg/l	
	Environment - sewage treatment plant		PNEC	1,6	mg/l	
	Environment - sediment, freshwater		PNEC	0,125	mg/kg	
	Environment - sediment, marine		PNEC	0,0125	mg/kg	
	Environment - soil		PNEC	0,0209	mg/kg	
Consumer	Human - dermal	Long term, systemic effects	DNEL	1	mg/kg	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	2,7	mg/m3	
Consumer	Human - oral	Long term, systemic effects	DNEL	0,6	mg/kg	
Consumer	Human - dermal	Long term, local effects	DNEL	0,14	mg/cm2	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	1,7	mg/kg	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	9	mg/m3	
Workers / employees Human - dermal		Long term, local effects	DNEL	0,14	mg/cm2	

- United Kingdom | WEL-TWA = Workplace Exposure Limit Long-term exposure limit 8-hour TWA (= time weighted average) reference period (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).
- (EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU: (8) = Inhalable fraction (2004/37/CE, 2017/164/EU). (9) = Respirable fraction (2004/37/CE, 2017/164/EU). (11) = Inhalable fraction (2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (2004/37/CE). | WEL-STEL = Workplace Exposure Limit Short-term exposure limit 15-minute reference period (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).
- (EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU:
- (8) = Inhalable fraction (2004/37/EC, 2017/164/EU). (9) = Respirable fraction (2004/37/EC, 2017/164/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU).
- | BMGV = Biological monitoring guidance value (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).
- (EU) = Directive 98/24/EC or 2004/37/EC or SCOEL (Biological Limit Value BLV, Recommendation from the Scientific Committee on Occupational Exposure Limits (SCOEL)) |
- | Other information (EH40/2005 Workplace exposure limits (Fourth Edition 2020)): Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.
- (EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, 2019/1831/EU or 2024/869/EU:
- (13) = The substance can cause sensitisation of the skin and of the respiratory tract (98/24/EC, 2004/37/CE), (14) = The substance can cause sensitisation of the skin (2004/37/CE), (15) = Substantial contribution to the total body burden via dermal exposure

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possible. |

- Ireland/Éire | OELV-8h = Occupational Exposure Limit Value 8-hour reference period (Chemical Agents and Carcinogens CoP (Code of Practice) 2024, HSA (Health and Safety Authority)): (IFV) = Inhalable Fraction and Vapour. (I) = Inhalable Fraction. (R) = Respirable Fraction.
- (EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU: (8) = Inhalable fraction (2004/37/EC, 2017/164/EU). (9) = Respirable fraction (2004/37/EC, 2017/164/EU). (11) = Inhalable fraction (2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (2004/37/CE). | OELV-15min = Occupational Exposure Limit Value 15-minute reference period (Chemical Agents and Carcinogens CoP (Code of Practice) 2024, HSA (Health and Safety Authority)): (IFV) = Inhalable Fraction and Vapour. (I) = Inhalable Fraction. (R) = Respirable Fraction.
- (EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU: (8) = Inhalable fraction (2004/37/EC, 2017/164/EU). (9) = Respirable fraction (2004/37/EC, 2017/164/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU).
- | BMGV = Biological Monitoring Guidance Value (Biological Monitoring Guidelines 2011, HSA (Health and Safety Authority)):
  ACGIH-BEI = BMGV have been sourced from Biological Exposure Indices (BEI) as issued by the American Conference of
  Governmental Industrial Hygienists (ACGIH). SCOEL = BMGV have been sourced from the Scientific Committee on Occupational
  Exposure Limit Values (SCOEL) which was set up by a Commission Decision (95/320/EC) with the mandate to advise the European
  Commission on occupational exposure limits for chemicals in the workplace. HSE = BMGV have been sourced from the Health and
  Safety Executive (HSE), UK.
- (EU) = Directive 98/24/EC or 2004/37/EC or SCOEL (Biological Limit Value BLV, Recommendation from the Scientific Committee on Occupational Exposure Limits (SCOEL)) |
- | Other information (Chemical Agents and Carcinogens CoP (Code of Practice) 2024, HSA (Health and Safety Authority)): Carc1A, Carc1B = carcinogenic substance, Cat. 1A or 1B. Muta1A, Muta1B = mutagenic substance, Cat. 1A or 1B. Repr1A, Repr1B = Substances known to be toxic for reproduction, Cat. 1A or 1B. Skin = Can be absorbed through skin. Asphx = asphyxiant. Sens = The substance can cause sensitisation. BOELV = Binding Occupational Exposure Limit Values. IOELV = Indicative Occupational Exposure Limit Values.
- (EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, 2019/1831/EU or 2024/869/EU:
- (13) = The substance can cause sensitisation of the skin and of the respiratory tract (98/24/EC, 2004/37/CE), (14) = The substance can cause sensitisation of the skin (2004/37/CE), (15) = Substantial contribution to the total body burden via dermal exposure possible.
- Malta | OELV-8h = Occupational Exposure Limit Value 8 h (8-hour reference period as a time-weighted average) [S.L.424.24, last amended by L.N. 356 of 2021]: [9] = Inhalable fraction, [10] = Respirable fraction.
- (EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU: (8) = Inhalable fraction (2004/37/EC, 2017/164/EU). (9) = Respirable fraction (2004/37/EC, 2017/164/EU). (11) = Inhalable fraction (2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (2004/37/CE). | OELV-ST = Occupational Exposure Limit Value Short-term (15-minute reference period) [S.L.424.24, last amended by L.N. 356 of 2021]: [8] = Short-term exposure limit value in relation to a reference period of 1 minute, [9] = Inhalable fraction, [10] = Respirable fraction.
- (EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU: (8) = Inhalable fraction (2004/37/EC, 2017/164/EU). (9) = Respirable fraction (2004/37/EC, 2017/164/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU).
- | BMGV = Biological monitoring guidance value (EH40/2005 Workplace exposure limits (Fourth Edition 2020), United Kingdom). (EU) = Directive 98/24/EC or 2004/37/EC or SCOEL (Biological Limit Value BLV, Recommendation from the Scientific Committee on Occupational Exposure Limits (SCOEL)) |
- Other information [S.L.424.24, last amended by L.N. 356 of 2021]: Skin = Possibility of a significant uptake through the skin. [11] = When selecting an appropriate exposure monitoring method, account should be taken of potential limitations and interferences that may arise in the presence of other sulphur compounds. [12] = The mist is defined as the thoracic fraction. [13] = Established in accordance with the Annex to Directive 91/322/EEC. [14] = During exposure monitoring for mercury and its divalent inorganic compounds, account should be taken of relevant biological monitoring techniques that complement the OELV.
- (EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, 2019/1831/EU or
- (EU13) = The substance can cause sensitisation of the skin and of the respiratory tract (2004/37/CE), (EU14) = The substance can cause sensitisation of the skin (2004/37/CE), (EU15) = Substantial contribution to the total body burden via dermal exposure possible.

#### 8.2 Exposure controls

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#### 8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn. Applies only if maximum permissible exposure values are listed here.

Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.

These are specified by e.g. EN 14042

EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

#### 8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:

Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection:

Solvent resistant protective gloves (EN ISO 374).

Recommended

Protective nitrile gloves (EN ISO 374).

Minimum layer thickness in mm:

> 0,4

Permeation time (penetration time) in minutes:

> 480

Protective hand cream recommended.

The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions.

The recommended maximum wearing time is 50% of breakthrough time.

Skin protection - Other:

Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection:

If OES or MEL is exceeded.

Filter A P2 (EN 14387), code colour brown, white

Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:

Not applicable

Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents. Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account. Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

#### 8.2.3 Environmental exposure controls

No information available at present.

#### **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

Physical state: Liquid

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Colour: Odour:

Melting point/freezing point:

Boiling point or initial boiling point and boiling range:

Flammability:

Lower explosion limit: Upper explosion limit:

Flash point:

Auto-ignition temperature: Decomposition temperature:

pH:

Kinematic viscosity:

Solubility:

Partition coefficient n-octanol/water (log value):

Vapour pressure:

Density and/or relative density:

Relative vapour density: Particle characteristics:

9.2 Other information

No information available at present.

Colourless Characteristic

There is no information available on this parameter. There is no information available on this parameter.

There is no information available on this parameter. There is no information available on this parameter. There is no information available on this parameter. There is no information available on this parameter.

-5 °C

There is no information available on this parameter. There is no information available on this parameter.

Mixture is non-soluble (in water).

<=20,5 mm2/s (40°C)

Insoluble

Does not apply to mixtures.

There is no information available on this parameter.

0,72 - 0,76 g/ml

There is no information available on this parameter.

Does not apply to liquids.

### **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

The product has not been tested.

#### 10.2 Chemical stability

Stable with proper storage and handling.

#### 10.3 Possibility of hazardous reactions

No dangerous reactions are known.

#### 10.4 Conditions to avoid

See also section 7.

Heating, open flame, ignition sources

Electrostatic charge

#### 10.5 Incompatible materials

See also section 7.

Avoid contact with strong oxidizing agents.

#### 10.6 Hazardous decomposition products

See also section 5.2

No decomposition when used as directed.

#### **SECTION 11: Toxicological information**

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

Possibly more information on health effects, see Section 2.1 (classification).

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Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:						n.d.a.
Acute toxicity, by dermal						n.d.a.
route:						
Acute toxicity, by inhalation:						n.d.a.
Skin corrosion/irritation:						Repeated
						exposure may
						cause skin
						dryness or
						cracking.

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Serious eye		n.d.a.
damage/irritation:		
Respiratory or skin		n.d.a.
sensitisation:		
Germ cell mutagenicity:		n.d.a.
Carcinogenicity:		n.d.a.
Reproductive toxicity:		n.d.a.
Specific target organ toxicity -		n.d.a.
single exposure (STOT-SE):		
Specific target organ toxicity -		n.d.a.
repeated exposure (STOT-		
RE):		
Aspiration hazard:		n.d.a.
Symptoms:		n.d.a.

Hydrocarbons, C7-C9, n-alka				T	T =	T
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute	
					Oral Toxicity)	
Acute toxicity, by dermal	LD50	>2800	mg/kg	Rabbit	OECD 402 (Acute	
route:			3 3		Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	>23,3	mg/l/4h	Rat	OECD 403 (Acute	Vapours
reductionity, by initialation.	2000	720,0	1119/1/-111	ı Kat	Inhalation Toxicity)	Vapours
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Not irritant
Skiii corrosion/iiritation.				Nabbit	Dermal	Not initant
					Irritation/Corrosion)	
Skin corrosion/irritation:						Repeated
						exposure may
						cause skin
						dryness or
						cracking.
Serious eye				Rabbit	OECD 405 (Acute	Not irritant
damage/irritation:					Eye	
damage, imation.					Irritation/Corrosion)	
Respiratory or skin				Guinea pig	OECD 406 (Skin	Not sensitizising
sensitisation:				Guiriea pig	Sensitisation)	INOL SCHSILIZISHING
					OECD 473 (In Vitro	Namativa
Germ cell mutagenicity:					,	Negative
					Mammalian	
					Chromosome	
					Aberration Test)	
Germ cell mutagenicity:		2000	mg/kg	Mouse	OECD 474	Negative
					(Mammalian	
					Erythrocyte	
					Micronucleus Test)	
Germ cell mutagenicity:					OECD 471 (Bacterial	Negative
					Reverse Mutation	3
					Test)	
Reproductive toxicity:					OECD 414 (Prenatal	Negative
reproductive toxicity.					Developmental	rvegative
					Toxicity Study)	
Donraduativa taviaitu	LOAEL	0000	nnm	Dot	OECD 416 (Two-	Magativa
Reproductive toxicity:	LUAEL	9000	ppm	Rat		Negative
					generation	
					Reproduction Toxicity	
					Study)	
Specific target organ toxicity -						STOT SE 3,
single exposure (STOT-SE):						H336
Specific target organ toxicity -					OECD 413	Negative
repeated exposure (STOT-					(Subchronic Inhalation	-
RÉ):					Toxicity - 90-Day	
•					Study)	
Aspiration hazard:						Yes
	1				1	

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Symptoms:	drowsiness,
	unconsciousnes
	S,
	heart/circulatory
	disorders,
	headaches,
	cramps,
	drowsiness,
	mucous
	membrane
	irritation,
	dizziness,
	nausea and
	vomiting.

Propan-2-ol						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	4570-5840	mg/kg	Rat	OECD 401 (Acute	
					Oral Toxicity)	
Acute toxicity, by dermal	LD50	12800-13900	mg/kg	Rabbit	OECD 402 (Acute	
route:					Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	> 25	mg/l/6h	Rat	OECD 403 (Acute	Vapours
<b>3</b> . <b>3</b>					Inhalation Toxicity)	
Acute toxicity, by inhalation:	LC50	46600	mg/l/4h	Rat	1	Aerosol
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Not irritant
					Dermal	
					Irritation/Corrosion)	
Serious eye				Rabbit	OECD 405 (Acute	Eye Irrit. 2
damage/irritation:				rabbit	Eye	
damago/irritation:					Irritation/Corrosion)	
Respiratory or skin				Guinea pig	OECD 406 (Skin	No (skin
sensitisation:				Guiriea pig	Sensitisation)	contact)
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative
Germ cell mutagementy.						ivegative
				typhimurium	Reverse Mutation	
0				N4	Test) OECD 474	NI
Germ cell mutagenicity:				Mouse		Negative
					(Mammalian	
					Erythrocyte	
					Micronucleus Test)	
Germ cell mutagenicity:				Mammalian	OECD 476 (In Vitro	Negative,
					Mammalian Cell Gene	Chinese
					Mutation Test)	hamster
Carcinogenicity:						Negative
Reproductive toxicity:	NOAEL	500	mg/kg/d	Rat	OECD 416 (Two-	Negative (oral
					generation	7 weeks)
					Reproduction Toxicity	
					Study)	
Reproductive toxicity:	NOAEL	853	mg/kg	Rat	OECD 415 (One-	Negative
			bw/d		Generation `	
					Reproduction Toxicity	
					Study)	
Reproductive toxicity:	NOAEL	400	mg/kg	Rat	OECD 414 (Prenatal	Negative
	1		bw/d		Developmental	3
					Toxicity Study)	
Specific target organ toxicity -					. change cracy,	STOT SE 3,
single exposure (STOT-SE):						H336, May
onigio exposure (o i o i -oc).						cause
						drowsiness or
						dizziness.
						uizziiiess.

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Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAEL	900	mg/kg	Rat	OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)	
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAEL	5000	ppm	Rat		Vapours (OECD 451)
Aspiration hazard:						No
Symptoms:						breathing difficulties, unconsciousnes s, vomiting, headaches, fatigue, dizziness, nausea, eyes, reddened, watering eyes

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	> 2000	mg/kg	Rat	OECD 423 (Acute	Female
• •					Oral Toxicity - Acute	
					Toxic Class Method)	
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute	
					Oral Toxicity)	
Acute toxicity, by dermal	LD50	>5000	mg/kg	Rabbit	OECD 402 (Acute	
route:					Dermal Toxicity)	
Skin corrosion/irritation:				Rabbit	-	Skin Irrit. 2
Serious eye				Rabbit	OECD 405 (Acute	Not irritant
damage/irritation:					Eye	
					Irritation/Corrosion)	
Respiratory or skin				Mouse	OECD 429 (Skin	Skin Sens. 1B
sensitisation:					Sensitisation - Local	
					Lymph Node Assay)	
Respiratory or skin				Mouse	OECD 429 (Skin	Skin Sens. 1
sensitisation:					Sensitisation - Local	
					Lymph Node Assay)	
Germ cell mutagenicity:				Mouse	OECD 476 (In Vitro	Negative
					Mammalian Cell Gene	
					Mutation Test)	
Germ cell mutagenicity:					OECD 479 (Genetic	Negative
					Toxicology - In Vitro	Chinese
					Sister Chromatid	hamster
					Exchange assay in	
					Mammalian Cells)	
Germ cell mutagenicity:					OECD 473 (In Vitro	Negative
					Mammalian	Chinese
					Chromosome	hamster
					Aberration Test)	
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative
				typhimurium	Reverse Mutation	
					Test)	

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Symptoms:		diarrhoe rash, itcl gastroin disturbal mucous membra irritation nausea	hing, testinal nces, ine , and
Symptoms:		vomiting diarrhoe rash, itcl gastroing disturbat mucous	ea, hing, testinal nces,
		membra irritation nausea vomiting	, and

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	10760-13100	mg/kg	Rat	OECD 423 (Acute Oral Toxicity - Acute Toxic Class Method)	Female
Acute toxicity, by dermal route:	LD50	>17600	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	>21,1	mg/l/4h	Rat	OECD 403 (Acute Inhalation Toxicity)	Vapours
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritant, Repeated exposure may cause skin dryness or cracking.
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Not irritant
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	No (skin contact)
Germ cell mutagenicity:				Salmonella typhimurium	OECD 471 (Bacterial Reverse Mutation Test)	Negative
Germ cell mutagenicity:				Mouse	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative
Reproductive toxicity:	NOAEC	9640	mg/m3		OECD 416 (Two- generation Reproduction Toxicity Study)	Negative
Specific target organ toxicity - single exposure (STOT-SE):						May cause drowsiness or dizziness., STOT SE 3, H336
Specific target organ toxicity - repeated exposure (STOT-RE):						Negative

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Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAEL	125	mg/kg	Rat	Regulation (EC) 440/2008 B.26 (SUB-CHRONIC ORAL TOXICITY TEST REPEATED DOSE 90 - DAY (RODENTS))	
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAEC	500	ppm	Rat		
Symptoms:						unconsciousnes s, headaches, mucous membrane irritation, dizziness, nausea and vomiting.

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	5800-7190	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	>15800	mg/kg	Rat	•	
Acute toxicity, by inhalation:	LC50	76	mg/l/4h	Rat		
Skin corrosion/irritation:				Guinea pig		Not irritant, Repeated exposure may cause skin dryness or cracking.
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Eye Irrit. 2
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Not sensitizising
Germ cell mutagenicity:				Mouse	OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative
Germ cell mutagenicity:				Salmonella typhimurium	OECD 471 (Bacterial Reverse Mutation Test)	Negative
Germ cell mutagenicity:				Mammalian	OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative
Carcinogenicity:				Mouse		Negative, References
Reproductive toxicity (Developmental toxicity):	NOAEC	2200	ppm	Rat	OECD 414 (Prenatal Developmental Toxicity Study)	Negative
Specific target organ toxicity - single exposure (STOT-SE):						STOT SE 3, H336, May cause drowsiness or dizziness.
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAEL	900	mg/kg bw/d	Rat	OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)	

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Symptoms:		unconsciousnes
		s, vomiting,
		headaches,
		gastrointestinal
		disturbances,
		fatigue,
		mucous
		membrane
		irritation,
		dizziness,
		nausea,
		drowsiness

Butanone						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	2193	mg/kg	Rat	OECD 423 (Acute Oral Toxicity - Acute	
Acute toxicity, by dermal route:	LD50	5000	mg/kg	Rabbit	Toxic Class Method) OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	34-34,5	mg/l/4h	Rat	-	Vapours
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritant, Repeated exposure may cause skin dryness or cracking.
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Eye Irrit. 2
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Not sensitizising
Germ cell mutagenicity:				Salmonella typhimurium	OECD 471 (Bacterial Reverse Mutation Test)	Negative
Germ cell mutagenicity:				Mouse	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative
Germ cell mutagenicity:				Mouse	OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative
Reproductive toxicity (Developmental toxicity):	NOAEC	1002	ppm	Rat	OECD 414 (Prenatal Developmental Toxicity Study)	Negative
Specific target organ toxicity - single exposure (STOT-SE):						May cause drowsiness or dizziness.
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAEC	5041	ppm/6h/d	Rat	OECD 413 (Subchronic Inhalation Toxicity - 90-Day Study)	Vapours, Negative

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Symptoms:			respiratory
			distress,
			drowsiness,
			unconsciousnes
			s, drop in blood
			pressure,
			coughing,
			headaches,
			cramps,
			intoxication,
			drowsiness,
			mucous
			membrane
			irritation,
			dizziness,
			nausea and
			vomiting.,
			mental
			confusion,
			fatigue

Citral						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	~ 6800	mg/kg	Rat		
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rat		
Skin corrosion/irritation:				Rabbit		Irritant
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Eye Irrit. 2
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Yes (skin contact)
Germ cell mutagenicity:				Salmonella typhimurium	OECD 471 (Bacterial Reverse Mutation Test)	Negative
Germ cell mutagenicity:				Mammalian	OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative, Chinese hamster
Germ cell mutagenicity:				Mammalian	OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative, Chinese hamster
Germ cell mutagenicity:				Mouse	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative
Symptoms:						respiratory distress, drowsiness, coughing, headaches, gastrointestinal disturbances, mucous membrane irritation, nausea

#### 11.2. Information on other hazards

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Fleckenwasser Art.: 36999

Fleckenwasser						
Art.: 36999						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Endocrine disrupting						Does not apply
properties:						to mixtures.
Other information:						No other
						relevant
						information
						available on
						adverse effects
						on health.

### **SECTION 12: Ecological information**

Possibly more information on environmental effects, see Section 2.1 (classification).

Fleckenwasser Art.: 36999							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:							n.d.a.
12.1. Toxicity to							n.d.a.
daphnia:							
12.1. Toxicity to algae:							n.d.a.
12.2. Persistence and							Isolate as
degradability:							much as
							possible with
							an oil separator
12.3. Bioaccumulative							n.d.a.
potential:							
12.4. Mobility in soil:							n.d.a.
12.5. Results of PBT							n.d.a.
and vPvB assessment							
12.6. Endocrine							Does not apply
disrupting properties:							to mixtures.
12.7. Other adverse							No information
effects:							available on
							other adverse
							effects on the
							environment.
Other information:							According to
							the recipe,
							contains no
							AOX.
Other information:							DOC-
							elimination
							degree(comple
							ing organic
							substance)>=
							80%/28d: n.a.
Other information:	AOX			%			According to
							the recipe,
							contains no
							AOX.

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics											
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes				
12.1. Toxicity to fish:	NOELR	28d	0,574	mg/kg	Oncorhynchus mykiss						
					Пукізэ						

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12.1. Toxicity to fish:	LC50	96h	3 -10	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	0,17	mg/l	Daphnia magna	,	
12.1. Toxicity to daphnia:	EL50	48h	4,6 - 10	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to daphnia:	NOELR	21d	1 -1,6	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproduction Test)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	10	mg/l	Pseudokirchnerie Ila subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	EL50	72h	10	mg/l	Pseudokirchnerie Ila subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		28d	98	%		OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)	Completely biodegradable.
12.3. Bioaccumulative potential:						,	Not to be expected(evapo ration)
12.4. Mobility in soil:							Product is slightly volatile.
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
12.7. Other adverse effects:							Product floats on the water surface.
Toxicity to bacteria:	EL50	48h	11,14	mg/l			calculated value

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	>100	mg/l	Leuciscus idus		
12.1. Toxicity to fish:	LC50	96h	1400	mg/l	Lepomis macrochirus		
12.1. Toxicity to daphnia:	EC50	48h	2285	mg/l	Daphnia magna		
12.1. Toxicity to daphnia:	EC50	16d	141	mg/l	Daphnia magna		
12.1. Toxicity to algae:	EC50	72h	>100	mg/l	Desmodesmus subspicatus		
12.2. Persistence and degradability:		21d	95	%		OECD 301 E (Ready Biodegradability - Modified OECD Screening Test)	Readily biodegradable
12.2. Persistence and degradability:			99,9	%		OECD 303 A (Simulation Test - Aerobic Sewage Treatment - Activated Sludge Units)	Readily biodegradable

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12.3. Bioaccumulative potential:	Log Pow		0,05			OECD 107 (Partition Coefficient (n- octanol/water) - Shake Flask Method)	Slight
12.3. Bioaccumulative potential:	BCF		3,2				Low
12.4. Mobility in soil:	Koc		1,1				Expert judgement
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Toxicity to bacteria:	EC50		>1000	mg/l	activated sludge		
Other organisms:	IC50	3d	2104	mg/l	Lactuca sativa		
Other information:	ThOD		2,4	g/g			
Other information:	BOD5		53	%			
Other information:	COD		96	%			References
Other information:	COD		2,3	g/g			
Other information:	BOD		1171	mg/g			

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	0,70	mg/l	Pimephales	OECD 203	
					promelas	(Fish, Acute	
						Toxicity Test)	
12.1. Toxicity to	EC50	48h	0,307-	mg/l	Daphnia magna	OECD 202	
daphnia:			0,42			(Daphnia sp.	
						Acute	
						Immobilisation	
						Test)	
12.1. Toxicity to algae:	ErC50	72h	0,214-	mg/l	Pseudokirchnerie	OECD 201	
			0,32		lla subcapitata	(Alga, Growth	
						Inhibition Test)	
12.1. Toxicity to algae:	NOEC/NOEL	96h	4	mg/l			
12.2. Persistence and		28d	80-92	%		OECD 301 D	Readily
degradability:						(Ready	biodegradable
						Biodegradability -	
						Closed Bottle	
						Test)	
12.2. Persistence and		28d	71	%		OECD 301 B	Readily
degradability:						(Ready	biodegradable
						Biodegradability -	
						Co2 Evolution	
10 0 B:	1 1/		4.00			Test)	07.00 11 7.0
12.3. Bioaccumulative	Log Kow		4,38			OECD 117	37 °C, pH = 7.2
potential:						(Partition	
						Coefficient (n-	
						octanol/water) -	
12.4 Mobility in acily						HPLC method)	Adaptation in
12.4. Mobility in soil:							Adsorption in ground.
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No
and vi vb assessifient							vPvB substance

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Toxicity to bacteria:	EC50	3h	209	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	
Other information:						,	Does not contain any organically bound halogens which can contribute to the AOX value in waste water.

n-butyl acetate							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	18	mg/l	Pimephales	OECD 203	
					promelas	(Fish, Acute	
						Toxicity Test)	
12.1. Toxicity to	EC50	48h	44	mg/l	Daphnia magna	OECD 202	
daphnia:						(Daphnia sp.	
						Acute	
						Immobilisation	
						Test)	
12.1. Toxicity to	NOEC/NOEL	21d	23	mg/l	Daphnia magna	OECD 211	
daphnia:						(Daphnia magna	
						Reproduction	
						Test)	
12.1. Toxicity to algae:	EC50	72h	397	mg/l	Scenedesmus	OECD 201	
					subspicatus	(Alga, Growth	
						Inhibition Test)	
12.2. Persistence and		28d	83	%		OECD 301 D	Readily
degradability:						(Ready	biodegradable
						Biodegradability -	
						Closed Bottle	
						Test)	
12.3. Bioaccumulative	Log Pow		2,3			OECD 117	Low
potential:						(Partition	
						Coefficient (n-	
						octanol/water) -	
40.5. December of DDT						HPLC method)	N- DDT
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No
							vPvB
Taviaity to bacteria:	FCFO		256	m a/l			substance
Toxicity to bacteria:	EC50		356	mg/l			Tetrahymena
							pyriformis

Acetone	Acetone										
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes				
12.1. Toxicity to fish:	LC50	96h	5540	mg/l	Oncorhynchus mykiss						
12.1. Toxicity to fish:	LC50	96h	7500	mg/l	Leuciscus idus						
12.1. Toxicity to fish:	LC50	96h	8300	mg/l	Lepomis macrochirus						
12.1. Toxicity to fish:	EC50	96h	8300	mg/l	Lepomis macrochirus						

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12.1. Toxicity to	NOEC/NOEL	28d	2212	mg/l	Daphnia pulex	OECD 211	
daphnia:						(Daphnia magna Reproduction Test)	
12.1. Toxicity to daphnia:	EC50	48h	6100- 12700	mg/l	Daphnia magna	,	
12.1. Toxicity to daphnia:	EC50	48h	8800	mg/l	Daphnia pulex	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	EC50	48h	4740	mg/l	Pseudokirchnerie Ila subcapitata		
12.1. Toxicity to algae:	NOEC/NOEL	48h	3400	mg/l	Pseudokirchnerie Ila subcapitata		
12.1. Toxicity to algae:	NOEC/NOEL	8d	530	mg/l		DIN 38412 T.9	Test organism M. aeruginosa
12.2. Persistence and degradability:		30d	81-92	%		Regulation (EC) 440/2008 C.4-E (DETERMINATI ON OF 'READY' BIODEGRADABI LITY - CLOSED BOTTLE TEST)	Readily biodegradable
12.2. Persistence and degradability:		28d	91	%		OECD 301 A (Ready Biodegradability - DOC Die-Away Test)	Readily biodegradable
12.2. Persistence and degradability:		28d	91	%		OECD 301 B (Ready Biodegradability - Co2 Evolution Test)	Readily biodegradable
12.3. Bioaccumulative potential:	Log Pow		-0,24			OECD 107 (Partition Coefficient (n- octanol/water) - Shake Flask Method)	
12.3. Bioaccumulative potential:	BCF		3				Low
12.4. Mobility in soil: 12.5. Results of PBT and vPvB assessment							No adsorption in soil. No PBT substance, No
							vPvB substance
Toxicity to bacteria:	EC10	30min	1000	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	
Toxicity to bacteria:	BOD/COD	16h	1700	mg/l	Pseudomonas putida	,,	
Other organisms:	EC5	72h	28	mg/l	Entosiphon sulcatum		

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Other information:	BOD5	1760- 1900	mg/g		
Other information:	AOX	0	%		
Other information:	COD	2070- 2100	mg/g		

Butanone							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	1690	mg/l	Lepomis macrochirus		
12.1. Toxicity to fish:	LC50	96h	2973	mg/l	Pimephales promelas	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	EC50	48h	308	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	EC50	72h	1972	mg/l	Pseudokirchnerie Ila subcapitata	OEĆD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	EC50	96h	2029	mg/l	Pseudokirchnerie Ila subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		28d	98	%	activated sludge	OECD 301 D (Ready Biodegradability - Closed Bottle Test)	Readily biodegradable
12.3. Bioaccumulative potential:	Log Pow		0,29-0,3			OECD 117 (Partition Coefficient (n- octanol/water) - HPLC method)	Bioaccumulatio n is unlikely (LogPow < 1).
12.4. Mobility in soil:	H (Henry)		0,00002 44				25°C
12.4. Mobility in soil:	Log Koc		3,8				
12.5. Results of PBT and vPvB assessment							No vPvB substance, No PBT substance
Toxicity to bacteria:	EC50	16h	1150	mg/l	Pseudomonas putida	DIN 38412 T.8	
Other information:	DOC		>70	%			
Other information:	BOD/COD		>50	%			

Citral							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	6,78	mg/l	Leuciscus idus	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	EC50	48h	6,8	mg/l	Daphnia magna	Regulation (ÉC) 440/2008 C.2 (DAPHNIA SP. ACUTE IMMOBILISATIO N TEST)	
12.1. Toxicity to algae:	EC50	72h	103,8	mg/l	Desmodesmus subspicatus	DIN 38412 T.9	
12.1. Toxicity to algae:	EC10	72h	3	mg/l	Desmodesmus subspicatus	DIN 38412 T.9	

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12.2. Persistence and		28d	> 90	%		OECD 301 F	Readily
degradability:						(Ready Biodegradability - Manometric Respirometry Test)	biodegradable
12.2. Persistence and degradability:		28d	92	%	activated sludge	OECD 301 C (Ready Biodegradability - Modified MITI Test (I))	Readily biodegradable
12.3. Bioaccumulative potential:	BCF		89,72				Low
12.3. Bioaccumulative potential:	Log Pow		2,76			OECD 107 (Partition Coefficient (n- octanol/water) - Shake Flask Method)	A notable biological accumulation potential is not to be expected (LogPow 1-3).25 °C
12.4. Mobility in soil:	Log Koc		2,33			OECD 121 (Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using HPLC)	
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Toxicity to bacteria:	EC50	30min	~160	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	

### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

#### For the substance / mixture / residual amounts

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product. Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU)

14 06 03 other solvents and solvent mixtures

20 01 13 Solvents

20 01 29 detergents containing hazardous substances

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

E.g. suitable incineration plant.

#### For contaminated packing material

Pay attention to local and national official regulations.

Empty container completely.

Uncontaminated packaging can be recycled.

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Dispose of packaging that cannot be cleaned in the same manner as the substance.

Do not perforate, cut up or weld uncleaned container.

Residues may present a risk of explosion.

#### **SECTION 14: Transport information**

#### **General statements**

#### Transport by road/by rail (ADR/RID)

14.1. UN number or ID number:

14.2. UN proper shipping name:

UN 1993 FLAMMABLE LIQUID, N.O.S. (HYDROCARBONS, C7-C9, ISOPROPYL ALCOHOL)

14.3. Transport hazard class(es):

14.4. Packing group:

14.5. Environmental hazards: environmentally hazardous

Tunnel restriction code: D/E
Classification code: F1
LQ: 1 L
Transport category: 2

Transport by sea (IMDG-code)

14.1. UN number or ID number: 1993

14.2. UN proper shipping name:

UN 1993 FLAMMABLE LIQUID, N.O.S. (HYDROCARBONS, C7-C9, ISOPROPYL ALCOHOL)

14.3. Transport hazard class(es):

14.4. Packing group:

II

14.5. Environmental hazards: environmentally hazardous

Marine Pollutant: Yes EmS: F-E, S-E

Segregation: -

Transport by air (IATA)

14.1. UN number or ID number: 1993

14.2. UN proper shipping name:

UN 1993 Flammable liquid, n.o.s. (HYDROCARBONS, C7-C9, ISOPROPYL ALCOHOL)

14.3. Transport hazard class(es):

14.4. Packing group:

II

14.5. Environmental hazards:

Not applicable

#### 14.6. Special precautions for user

Persons employed in transporting dangerous goods must be trained.

All persons involved in transporting must observe safety regulations.

Precautions must be taken to prevent damage.

#### 14.7. Maritime transport in bulk according to IMO instruments

Freighted as packaged goods rather than in bulk, therefore not applicable.

Minimum amount regulations have not been taken into account.

Danger code and packing code on request.

Comply with special provisions.

#### **SECTION 15: Regulatory information**

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

#### Observe restrictions:

Comply with national regulations/laws governing the protection of young people at work (national implementation of the Directive 94/33/EC)!

This product is regulated by Regulation (EU) 2019/1148. All suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point.

For exceptions see Regulation (EU) 2019/1148 and guidelines for the implementation of Regulation (EU) 2019/1148. Comply with national regulations/laws governing maternity protection (national implementation of the Directive 92/85/EEC)! Comply with trade association/occupational health regulations.







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Directive 2012/18/EU ("Seveso III"), Annex I, Part 1 - The following categories apply to this product (others may also need to be

considered according to storage, handling etc.):

considered according to storage	, nanding etc.).		
Hazard categories	Notes to Annex I	Qualifying quantity (tonnes) of	Qualifying quantity (tonnes) of
		dangerous substances as	dangerous substances as
		referred to in Article 3(10) for	referred to in Article 3(10) for
		the application of - Lower-tier	the application of - Upper-tier
		requirements	requirements
P5c		5000	50000
E2		200	500

The Notes to Annex 1 of Directive 2012/18/EU, in particular those named in the tables here and notes 1-6, must be taken into account when assigning categories and qualifying quantities.

Directive 2010/75/EU (VOC):

99,75 %

#### **REGULATION (EC) No 648/2004**

30 % and more aliphatic hydrocarbons

perfumes LIMONENE CITRAL

Observe incident regulations.

National requirements/regulations on safety and health protection must be applied when using work equipment.

#### 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

#### **SECTION 16: Other information**

Revised sections:

8

Employee training in handling dangerous goods is required.

These details refer to the product as it is delivered.

Employee instruction/training in handling hazardous materials is required.

### Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

Classification in accordance with regulation (EC) No. 1272/2008 (CLP)	Evaluation method used
Flam. Liq. 2, H225	Classification based on test data.
Skin Sens. 1, H317	Classification according to calculation procedure.
Asp. Tox. 1, H304	Classification according to calculation procedure.
STOT SE 3, H336	Classification according to calculation procedure.
Aquatic Chronic 2, H411	Classification according to calculation procedure.

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents.

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H317 May cause an allergic skin reaction.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

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H412 Harmful to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

Flam. Liq. — Flammable liquid Skin Sens. — Skin sensitization Asp. Tox. — Aspiration hazard

STOT SE — Specific target organ toxicity - single exposure - narcotic effects

Aquatic Chronic — Hazardous to the aquatic environment - chronic

Eye Irrit. — Eye irritation Skin Irrit. — Skin irritation

Aquatic Acute — Hazardous to the aquatic environment - acute

#### Key literature references and sources for data:

Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) as amended.

Guidelines for the preparation of safety data sheets as amended (ECHA).

Guidelines on labelling and packaging according to the Regulation (EG) Nr. 1272/2008 (CLP) as amended (ECHA).

Safety data sheets for the constituent substances.

ECHA Homepage - Information about chemicals.

GESTIS Substance Database (Germany).

German Environment Agency "Rigoletto" information site on substances that are hazardous to water (Germany).

EU Occupation Exposure Limits Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164, (EU) 2019/1831, each as amended.

National Lists of Occupational Exposure Limits for each country as amended.

Regulations on the transport of hazardous goods by road, rail, sea and air (ADR, RID, IMDG, IATA) as amended.

#### Any abbreviations and acronyms used in this document:

acc., acc. to according, according to

ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)

AOX Adsorbable organic halogen compounds

approx. approximately Art., Art. no. Article number

ASTM ASTM International (American Society for Testing and Materials)

ATE Acute Toxicity Estimate

BAM Bundesanstalt für Materialforschung und -prüfung (= Federal Institute for Materials Research and Testing, Germany)
BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)

BCF Bioconcentration factor

BSEF The International Bromine Council

CAS Chemical Abstracts Service

CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)

CMR carcinogenic, mutagenic, reproductive toxic

DMEL Derived Minimum Effect Level

DNEL Derived No Effect Level

DOC Dissolved organic carbon

e.g. for example (abbreviation of Latin 'exempli gratia'), for instance

EbCx, EyCx, EbLx (x = 10, 50) Effect Concentration/Level of x % on reduction of the biomass (algae, plants)

EC European Community

ECHA European Chemicals Agency

ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect

EEC European Economic Community

EINECS European Inventory of Existing Commercial Chemical Substances

ELINCS European List of Notified Chemical Substances

EN European Norms

EPA United States Environmental Protection Agency (United States of America)

ErCx, EµCx, ErLx (x = 10, 50) Effect Concentration/Level of x % on inhibition of the growth rate (algae, plants)

etc. et cetera EU European Union

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Fleckenwasser Art.: 36999

EVAL Ethylene-vinyl alcohol copolymer

Fax. Fax number gen. general

GHS Globally Harmonized System of Classification and Labelling of Chemicals

GWP Global warming potential

Koc Adsorption coefficient of organic carbon in the soil

Kow octanol-water partition coefficient

IARC International Agency for Research on Cancer

IATA International Air Transport Association
IBC (Code) International Bulk Chemical (Code)

IMDG-code International Maritime Code for Dangerous Goods

incl. including, inclusive

**IUCLIDInternational Uniform Chemical Information Database** 

IUPAC International Union for Pure Applied Chemistry LC50 Lethal Concentration to 50 % of a test population

LD50 Lethal Dose to 50% of a test population (Median Lethal Dose)

Log Koc Logarithm of adsorption coefficient of organic carbon in the soil

Log Kow, Log Pow Logarithm of octanol-water partition coefficient

LQ Limited Quantities

MARPOL International Convention for the Prevention of Marine Pollution from Ships

mg/kg bw mg/kg body weight

mg/kg bw/d, mg/kg bw/day mg/kg body weight/day

mg/kg dw mg/kg dry weight mg/kg wwt mg/kg wet weight

n.a. not applicablen.av. not availablen.c. not checkedn.d.a. no data available

NIOSHNational Institute for Occupational Safety and Health (USA)

NLP No-longer-Polymer

NOEC, NOEL No Observed Effect Concentration/Level

OECD Organisation for Economic Co-operation and Development

org. organic

OSHA Occupational Safety and Health Administration (USA)

PBT persistent, bioaccumulative and toxic

PE Polyethylene

PNEC Predicted No Effect Concentration

ppm parts per million PVC Polyvinylchloride

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)

REACH-IT List-No. 6/7/8/9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.

RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)

SVHC Substances of Very High Concern

Tel. Telephone

TOC Total organic carbon

UN RTDG United Nations Recommendations on the Transport of Dangerous Goods

VOC Volatile organic compounds

vPvB very persistent and very bioaccumulative

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge. No responsibility.

These statements were made by:

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