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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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:

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: $\ensuremath{\mathbb{R}}$

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.

2.2 Label elements

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



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 SWALLOWED: 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

EINECS, ELINCS, NLP, REACH-IT List-No.

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	
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
Index	603-117-00-0

200-661-7

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Art.: 36999	
Ап.: зозээ	
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 SE 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
A	Outotanas for which on 511 ovnosuro limit volus
Acetone	Substance for which an EU exposure limit value applies.
	applies.
Registration number (RFACH)	01-2119471330-49-XXXX
Registration number (REACH)	01-2119471330-49-XXXX 606-001-00-8
Index	606-001-00-8
Index EINECS, ELINCS, NLP, REACH-IT List-No.	606-001-00-8 200-662-2
Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS	606-001-00-8 200-662-2 67-64-1
Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content %	606-001-00-8 200-662-2 67-64-1 1-<5
Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % Classification according to Regulation (EC) 1272/2008 (CLP), M-	606-001-00-8 200-662-2 67-64-1 1-<5 EUH066
Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content %	606-001-00-8 200-662-2 67-64-1 1-<5 EUH066 Flam. Liq. 2, H225
Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % Classification according to Regulation (EC) 1272/2008 (CLP), M-	606-001-00-8 200-662-2 67-64-1 1-<5 EUH066 Flam. Liq. 2, H225 Eye Irrit. 2, H319
Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % Classification according to Regulation (EC) 1272/2008 (CLP), M-	606-001-00-8 200-662-2 67-64-1 1-<5 EUH066 Flam. Liq. 2, H225
Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % Classification according to Regulation (EC) 1272/2008 (CLP), M-	606-001-00-8 200-662-2 67-64-1 1-<5 EUH066 Flam. Liq. 2, H225 Eye Irrit. 2, H319
Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % Classification according to Regulation (EC) 1272/2008 (CLP), M- factors Butanone	606-001-00-8 200-662-2 67-64-1 1-<5 EUH066 Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 Substance for which an EU exposure limit value applies.
Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % Classification according to Regulation (EC) 1272/2008 (CLP), M- factors	606-001-00-8 200-662-2 67-64-1 1-<5 EUH066 Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 Substance for which an EU exposure limit value applies. 01-2119457290-43-XXXX
Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % Classification according to Regulation (EC) 1272/2008 (CLP), M- factors Butanone Registration number (REACH) Index	606-001-00-8 200-662-2 67-64-1 1-<5
Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % Classification according to Regulation (EC) 1272/2008 (CLP), M- factors Butanone Registration number (REACH)	606-001-00-8 200-662-2 67-64-1 1-<5
Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % Classification according to Regulation (EC) 1272/2008 (CLP), M- factors Butanone Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS	606-001-00-8 200-662-2 67-64-1 1-<5
Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % Classification according to Regulation (EC) 1272/2008 (CLP), M- factors Butanone Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content %	606-001-00-8 200-662-2 67-64-1 1-<5 EUH066 Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 Substance for which an EU exposure limit value applies. 01-2119457290-43-XXXX 606-002-00-3 201-159-0 78-93-3 1-<5
Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % Classification according to Regulation (EC) 1272/2008 (CLP), M- factors Butanone Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS	606-001-00-8 200-662-2 67-64-1 1-<5 EUH066 Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 Substance for which an EU exposure limit value applies. 01-2119457290-43-XXXX 606-002-00-3 201-159-0 78-93-3 1-<5 EUH066
Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % Classification according to Regulation (EC) 1272/2008 (CLP), M- factors Butanone Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content %	606-001-00-8 200-662-2 67-64-1 1-<5
Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % Classification according to Regulation (EC) 1272/2008 (CLP), M- factors Butanone Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % Classification according to Regulation (EC) 1272/2008 (CLP), M-	606-001-00-8 200-662-2 67-64-1 1-<5
Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % Classification according to Regulation (EC) 1272/2008 (CLP), M- factors Butanone Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % Classification according to Regulation (EC) 1272/2008 (CLP), M-	606-001-00-8 200-662-2 67-64-1 1-<5
Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % Classification according to Regulation (EC) 1272/2008 (CLP), M- factors Butanone Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % Classification according to Regulation (EC) 1272/2008 (CLP), M- factors	606-001-00-8 200-662-2 67-64-1 1-<5
Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % Classification according to Regulation (EC) 1272/2008 (CLP), M- factors Butanone Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % Classification according to Regulation (EC) 1272/2008 (CLP), M- factors Citral	606-001-00-8 200-662-2 67-64-1 1-<5
Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % Classification according to Regulation (EC) 1272/2008 (CLP), M- factors Butanone Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % Classification according to Regulation (EC) 1272/2008 (CLP), M- factors Citral Registration number (REACH)	606-001-00-8 200-662-2 67-64-1 1-<5
Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % Classification according to Regulation (EC) 1272/2008 (CLP), M- factors Butanone Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % Classification according to Regulation (EC) 1272/2008 (CLP), M- factors Citral	606-001-00-8 200-662-2 67-64-1 1-<5

Citral		
Registration number (REACH)	01-2119462829-23-XXXX	
Index	605-019-00-3	
EINECS, ELINCS, NLP, REACH-IT List-No.	226-394-6	
CAS	5392-40-5	
content %	0,1-<1	
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Classification according to Regulation (EC) 1272/2008 (CLP), M- factors	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
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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 Fatique 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

5.1 Extinguishing media

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Suitable extinguishing media

CO2 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.

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.

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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 Hydrocarb	ons, C7-C9, n-alkanes, isoalkanes, cycl	lics
WEL-TWA: 1200 mg/m3	WEL-STEL:	
Monitoring procedures:	- Draeger - Hydrocarbons 0,1%/c ((81 03 571)
	- Draeger - Hydrocarbons 2/a (81 0	03 581)
	- Compur - KITA-187 S (551 174)	
BMGV:		Other information: (OEL acc. to RCP-
		method, paragraphs 84-87, EH40)
Chemical Name Hydrocarb	ons, C7-C9, n-alkanes, isoalkanes, cycl	lico
OELV-8h: 100 ppm (573 mg/m3) ("Stoddard	d OELV-15min:	
solvent", [White spirit])		
Monitoring procedures:	 Draeger - Hydrocarbons 0,1%/c (
	 Draeger - Hydrocarbons 2/a (81 0) 	03 581)
	- Compur - KITA-187 S (551 174)	
BLV:		Other information:
Chemical Name Propan-2-	al	
WEL-TWA: 400 ppm (999 mg/m3)	WEL-STEL: 500 ppm (1250	
Monitoring procedures:	 Draeger - Alcohol 25/a i-Propanol 	
	 Compur - KITA-122 SA(C) (549 2 	277)
	- Compur - KITA-150 U (550 382)	
		he), DFG (E) (Solvent mixtures 6) - 2013, 2002 -
	- EU project BC/CEN/ENTR/000/20	002-16 card 66-3 (2004)
	- NIOSH 1400 (ALCOHOLS I) - 19	
	- NICSH 1400 (ALCOHOLS I) - 19	/34

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PDF print date: 15.03.2024	
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Art.: 36999	
-	NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996
-	Draeger - Alcohol 100/a (CH 29 701)
BMGV:	Other information:
Chemical Name Propan-2-ol	
	OEL V-15min: 400 ppm
OELV-8h: 200 ppm Monitoring procedures: -	OELV-15min: 400 ppm Draeger - Alcohol 25/a i-Propanol (81 01 631)
- Monitoring procedures.	Compur - KITA-122 SA(C) (549 277)
	Comput - KITA-122 SA(C) (349 277) Comput - KITA-150 U (550 382)
	DFG (D) (Loesungsmittelgemische), DFG (E) (Solvent mixtures 6) - 2013, 2002 -
_	EU project BC/CEN/ENTR/000/2002-16 card 66-3 (2004)
	NIOSH 1400 (ALCOHOLS I) - 1994
	NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996
	Draeger - Alcohol 100/a (CH 29 701)
BLV: 40 mg/l (acetone, U, d) (ACGIH-BEI)	Other information: Sk
Chemical Name n-butyl acetate	
WEL-TWA: 150 ppm (724 mg/m3) (WEL-TWA),	WEL-STEL: 200 ppm (966 mg/m3) (WEL-STEL),
50 ppm (241 mg/m3) (EU)	150 ppm (723 mg/m3) (EU)
Monitoring procedures: -	Compur - KITA-138 U (548 857)
-	Compur - KITA-139 SB(C) (549 731)
-	NIOSH 1450 (ESTERS 1) - 2003
-	NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996
	OSHA 1009 (n-Butyl Acetate Isobutyl Acetate sec-Butyl Acetate tert-Butyl
-	Acetate) - 2007
BMGV:	Other information:
Chemical Name n-butyl acetate	
OELV-8h: 50 ppm (241 mg/m3) (OELV-8h, EU)	OELV-15min: 150 ppm (723 mg/m3) (OELV
	15min, EU)
Monitoring procedures: -	Compur - KITA-138 U (548 857)
-	Compur - KITA-139 SB(C) (549 731)
-	NIOSH 1450 (ESTERS 1) - 2003
-	NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996
	OSHA 1009 (n-Butyl Acetate Isobutyl Acetate sec-Butyl Acetate tert-Butyl
-	$\Lambda cotato) = 2007$
B IN/	Acetate) - 2007
BLV:	Other information:
Chemical Name n-butyl acetate	
	Other information:
Chemical Name n-butyl acetate OELV-8h: 50 ppm (241 mg/m3) (OELV-8h, EU)	Other information: OELV-ST: 150 ppm (723 mg/m3) (OELV-ST, EU)
Chemical Name n-butyl acetate OELV-8h: 50 ppm (241 mg/m3) (OELV-8h, EU) Monitoring procedures: -	Other information: 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
Chemical Name n-butyl acetate OELV-8h: 50 ppm (241 mg/m3) (OELV-8h, EU) Monitoring procedures: -	Other information: 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 (SCREENING)) - 1996
Chemical Name n-butyl acetate OELV-8h: 50 ppm (241 mg/m3) (OELV-8h, EU) Monitoring procedures: -	Other information: 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
Chemical Name n-butyl acetate OELV-8h: 50 ppm (241 mg/m3) (OELV-8h, EU) Monitoring procedures:	Other information: 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 (SCREENING)) - 1996 OSHA 1009 (n-Butyl Acetate Isobutyl Acetate sec-Butyl Acetate tert-Butyl Acetate) - 2007
Chemical Name n-butyl acetate OELV-8h: 50 ppm (241 mg/m3) (OELV-8h, EU) Monitoring procedures: -	Other information: 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 (SCREENING)) - 1996 OSHA 1009 (n-Butyl Acetate Isobutyl Acetate sec-Butyl Acetate tert-Butyl
Chemical Name n-butyl acetate OELV-8h: 50 ppm (241 mg/m3) (OELV-8h, EU) Monitoring procedures: BMGV:	Other information: 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 (SCREENING)) - 1996 OSHA 1009 (n-Butyl Acetate Isobutyl Acetate sec-Butyl Acetate tert-Butyl Acetate) - 2007
	Other information: 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 (SCREENING)) - 1996 OSHA 1009 (n-Butyl Acetate Isobutyl Acetate sec-Butyl Acetate tert-Butyl Acetate) - 2007 Other information:
Chemical Namen-butyl acetateOELV-8h:50 ppm (241 mg/m3) (OELV-8h, EU)Monitoring procedures:BMGV:Image: Second Se	Other information: 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 (SCREENING)) - 1996 OSHA 1009 (n-Butyl Acetate Isobutyl Acetate sec-Butyl Acetate tert-Butyl Acetate) - 2007 Other information: WEL-STEL: 1500 ppm (3620 mg/m3) (WEL-
	Other information: 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 1450 (ESTERS 1) - 2003 NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996 OSHA 1009 (n-Butyl Acetate Isobutyl Acetate sec-Butyl Acetate tert-Butyl Acetate) - 2007 Other information: WEL-STEL: 1500 ppm (3620 mg/m3) (WEL- STEL)
Chemical Name n-butyl acetate 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, EU) Lute	Other information: 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 1450 (ESTERS 1) - 2003 NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996 OSHA 1009 (n-Butyl Acetate Isobutyl Acetate sec-Butyl Acetate tert-Butyl Acetate) - 2007 Other information: VEL-STEL: 1500 ppm (3620 mg/m3) (WEL- STEL) Draeger - Acetone 100/b (CH 22 901)
M Chemical Name n-butyl acetate OELV-8h: 50 ppm (241 mg/m3) (OELV-8h, EU) Monitoring procedures: - - - BMGV: Image: Second Seco	Other information: 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 1450 (ESTERS 1) - 2003 NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996 OSHA 1009 (n-Butyl Acetate Isobutyl Acetate sec-Butyl Acetate tert-Butyl Acetate) - 2007 Other information: WEL-STEL: 1500 ppm (3620 mg/m3) (WEL- STEL)
M Chemical Name n-butyl acetate OELV-8h: 50 ppm (241 mg/m3) (OELV-8h, EU) Monitoring procedures: - - - BMGV: Image: Second Seco	Other information: 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 1450 (ESTERS 1) - 2003 NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996 OSHA 1009 (n-Butyl Acetate Isobutyl Acetate sec-Butyl Acetate tert-Butyl Acetate) - 2007 Other information: VEL-STEL: 1500 ppm (3620 mg/m3) (WEL- STEL) Draeger - Acetone 100/b (CH 22 901) Draeger - Acetone 40/a (5) (81 03 381)
M Chemical Name n-butyl acetate OELV-8h: 50 ppm (241 mg/m3) (OELV-8h, EU) Monitoring procedures: - - - BMGV: Image: Second Seco	Other information: 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 1450 (ESTERS 1) - 2003 NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996 OSHA 1009 (n-Butyl Acetate Isobutyl Acetate sec-Butyl Acetate tert-Butyl Acetate) - 2007 Other information: VEL-STEL: 1500 ppm (3620 mg/m3) (WEL- STEL) Other information: 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)
✓ Chemical Name n-butyl acetate OELV-8h: 50 ppm (241 mg/m3) (OELV-8h, EU) Monitoring procedures: - - - BMGV: Image: Second Sec	Other information: 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 1450 (ESTERS 1) - 2003 NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996 OSHA 1009 (n-Butyl Acetate Isobutyl Acetate sec-Butyl Acetate tert-Butyl Acetate) - 2007 Other information: VEL-STEL: 1500 ppm (3620 mg/m3) (WEL- STEL) Other information: 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
✓ Chemical Name n-butyl acetate OELV-8h: 50 ppm (241 mg/m3) (OELV-8h, EU) Monitoring procedures: - - - BMGV: Image: Second Sec	Other information: 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 (SCREENING)) - 1996 OSHA 1009 (n-Butyl Acetate Isobutyl Acetate sec-Butyl Acetate tert-Butyl Acetate) - 2007 Other information: WEL-STEL: 1500 ppm (3620 mg/m3) (WEL- STEL) Other information: Draeger - Acetone 100/b (CH 22 901) Draeger - Acetone 40/a (5) (81 03 381) Compur - KITA-102 SA (548 534) 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
✓ Chemical Name n-butyl acetate OELV-8h: 50 ppm (241 mg/m3) (OELV-8h, EU) Monitoring procedures: - - - BMGV: Image: Second Sec	Other information: 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 1450 (ESTERS 1) - 2003 NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996 OSHA 1009 (n-Butyl Acetate Isobutyl Acetate sec-Butyl Acetate tert-Butyl Acetate) - 2007 Other information: VEL-STEL: 1500 ppm (3620 mg/m3) (WEL- STEL) Other information: 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
✓ Chemical Name n-butyl acetate OELV-8h: 50 ppm (241 mg/m3) (OELV-8h, EU) Monitoring procedures: - - - BMGV: Image: Second Sec	Other information: 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 1450 (ESTERS 1) - 2003 NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996 OSHA 1009 (n-Butyl Acetate Isobutyl Acetate sec-Butyl Acetate tert-Butyl Acetate) - 2007 Other information: WEL-STEL: 1500 ppm (3620 mg/m3) (WEL- STEL) Other information: Draeger - Acetone 100/b (CH 22 901) Draeger - Acetone 40/a (5) (81 03 381) Compur - KITA-102 SA (548 534) 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 (2004)
Chemical Name n-butyl acetate OELV-8h: 50 ppm (241 mg/m3) (OELV-8h, EU) Monitoring procedures: - - - BMGV: BMGV: BMGV: OELV-8h: 500 ppm (1210 mg/m3) (WEL-TWA, EU) Monitoring procedures: - - - <td< td=""><td>Other information: 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 (SCREENING)) - 1996 OSHA 1009 (n-Butyl Acetate Isobutyl Acetate sec-Butyl Acetate tert-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 (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 (2004) MDHS 72 (Volatile organic compounds in air – Laboratory method using pumped</td></td<>	Other information: 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 (SCREENING)) - 1996 OSHA 1009 (n-Butyl Acetate Isobutyl Acetate sec-Butyl Acetate tert-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 (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 (2004) MDHS 72 (Volatile organic compounds in air – Laboratory method using pumped
Chemical Name n-butyl acetate OELV-8h: 50 ppm (241 mg/m3) (OELV-8h, EU) Monitoring procedures: - - - BMGV: BMGV: BMGV: OELV-8h: 500 ppm (1210 mg/m3) (WEL-TWA, EU) Monitoring procedures: - - - <td< td=""><td>Other information: 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 (SCREENING)) - 1996 OSHA 1009 (n-Butyl Acetate Isobutyl Acetate sec-Butyl Acetate tert-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 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 (2004) MDHS 72 (Volatile organic compounds in air – Laboratory method using pumped solid sorbent tubes, thermal desorption and gas chromatography) - 1993</td></td<>	Other information: 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 (SCREENING)) - 1996 OSHA 1009 (n-Butyl Acetate Isobutyl Acetate sec-Butyl Acetate tert-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 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 (2004) MDHS 72 (Volatile organic compounds in air – Laboratory method using pumped solid sorbent tubes, thermal desorption and gas chromatography) - 1993
Chemical Name n-butyl acetate OELV-8h: 50 ppm (241 mg/m3) (OELV-8h, EU) Monitoring procedures: - - - BMGV: Image: Second S	Other information: 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 (SCREENING)) - 1996 OSHA 1009 (n-Butyl Acetate Isobutyl Acetate sec-Butyl Acetate tert-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 (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 (2004) MDHS 72 (Volatile organic compounds in air – Laboratory method using pumped

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Art.: 36999				
	 NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (1) NIOSH 2555 (KETONES I) - 2003 NIOSH 3800 (ORGANIC AND INORGANIC GASES E SPECTROMETRY) - 2016 			
	- OSHA 69 (Acetone) - 1988			
BMGV:	Other information:			
Chemical Name Acetone				
OELV-8h: 500 ppm (1210 mg/m3) (OELV EU)	8h, OELV-15min:			
Monitoring procedures:	 Draeger - Acetone 100/b (CH 22 901) Draeger - Acetone 40/a (5) (81 03 381) 			
	- Compur - KITA-102 SA (548 534)			
	- Comput - KITA-102 SC (548 550)			
	- Compur - KITA-102 SD (551 109)			
	INSHT MTA/MA-031/A96 (Determination of ketones (ketone, methyl isobutyl ketone) in air - Charcoal tube			
	chromatography) - 1996 - EU project BC/CEN/ENTR/			
	- (2004)			
	MDHS 72 (Volatile organic compounds in air – Labora			
	 solid sorbent tubes, thermal desorption and gas chror NIOSH 1300 (KETONES I) - 1994 	natography) - 1993		
	 NIOSH 1500 (RETONES I) - 1994 NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS () 	SCREENING)) - 1996		
	- NIOSH 2555 (KETONES I) - 2003			
	NIOSH 3800 (ORGANIC AND INORGANIC GASES E	BY EXTRACTIVE FTIR		
	- SPECTROMETRY) - 2016			
BLV: 50 mg/l (U, b) (ACGIH-BEI)	- OSHA 69 (Acetone) - 1988 Other information:	IOELV		
Chemical Name Acetone		-		
OELV-8h: 500 ppm (1210 mg/m3) (OELV	8h, OELV-ST:			
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			
	chromatography) - 1996 - EU project BC/CEN/ENTR/	000/2002-16 card 67-1		
	- (2004)	tory mothed using purses		
	 MDHS 72 (Volatile organic compounds in air – Labora solid sorbent tubes, thermal desorption and gas chron 			
	- NIOSH 1300 (KETONES I) - 1994			
	- NIOSH 2549 (VOLATILE ÓRGANIC COMPOUNDS (SCREENING)) - 1996		
	- NIOSH 2555 (KETONES I) - 2003			
	NIOSH 3800 (ORGANIC AND INORGANIC GASES E - SPECTROMETRY) - 2016	DI ENIRAUIIVE FIIK		
	- OSHA 69 (Acetone) - 1988			
BMGV:	Other information:			
Chemical Name Butanon				
WEL-TWA: 200 ppm (600 mg/m3) (WEL- EU)	WA, 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 MethNr. 4 (D) (Loesungsmittelgemische 4), DF 2015, 2002 	G (E) (Solvent mixtures 4)		

Page 9 of 34 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Rovision data / version: 11.03.2024 / 0003 Replacing version data / version: 15.11.2023 / 0002 Valid from: 11.03.2024 Picokenwasser Ar:: 30999 NISHT MTAMA-031/A96 (Determination of ketones (acetone, methyl ethyl ketone, methyl ethyl, PioPioPioPioPioPioPioPioPioPioPioPioPioP	68 R) M				
Revision date / version: 11.03.2024 / 0003 Replacing version date / version: 15.11.2023 / 0002 Valid from: 11.03.2024 Flecknwasser Art: 36999 INSHT MTA/MA-031/A96 (Determination of ketones (acetone, methyl athyl ketone, methyl lab.ub/l ketone) in air - Charcaal tube method i Gas chromatography) - 1996 - EU project BCC/EVENTR700020202-16 card 105 (2004) NICSH 2500 (METHYL ETHYL KETONE) - 1996 NICSH 2500 (METHYL 2016) OELV-8h: 200 ppm (600 mg/m3) (OELV-8h, EU) OELV-15min: 300 ppm (900 mg/m3) (OELV- 	Page 9 of 34				
Replacing version dated / version: 15.11.2023 / 0002 Valid from: 11.03.2024 PDF print date: 15.03.2024 Fleckenwasser Art: 38999 NISHT MTA/MA-031/A96 (Determination of ketones (acetone, methyl stbyl ketone, methyl isobutyl ketone) in air - Charcoal tube method / Gas chromatography) - 1996 - EU project BC/CEN/ENTR000/2002-16 card 105 (2004) MDH3 72 (Volaile organic compounds in air - Laboratory method using pu - said sorbent tubes, thermal doscription and gas chromatography) - 1998 - NIOSH 2480 (METHYL ETHYL KETONE) - 1396 - NIOSH 2480 (VLCTIEE OFANCC COMPOUNDS (GCREENING)) - 1998 - NIOSH 2380 (VCLCTIEE OFANCC COMPOUNDS (GCREENING)) - 1998 - NIOSH 2380 (VCLCTIE OFANCC COMPOUNDS (GCREENING)) - 1998 - NIOSH 2380 (VCLCTIE OFANCC COMPOUNDS (GCREENING)) - 1998 - NIOSH 2380 (VCLCTIE OFANCC COMPOUNDS (GCREENING)) - 1998 - NIOSH 1380 (VCLCTIE OFANCC COMPOUNDS (GCREENING)) - 1997 - Compur: KITA-139 U(549 743) - Compur: KITA-139 U(549 748) - NIOSH 2480 (VCLLTLE OFARCINC COMPOUNDS (SCREENING)) - 1996 - NIOSH 2550 (KCTONES I) - 2000 - Compur: KITA-139 U(549 771) - Compur: KITA-139 U(549 771) - Compur: KITA-139 U(549 771) - Compur: KITA-139 U(549 771) - Compur: KITA-139 U(549	Safety data sheet according to Re		1907/2006, Annex II		
Valid Form: 11.03.2024 PDF print data: 15.03.2024 Fleckenwasser Art: 3699 INSHT MTAMA-031/A96 (Determination of ketones (acetone, methyl ethyl ketone, methyl isobuly ketone) in air - Charcoal tube method / Gas chromatographyl - 1965 - EU project SC/CENENTR.0002002-16 card 105 - (2004) MDH 37 VINDEH 2500 (METHYL ETHYL KETONE) - 1996 NIOSH 2569 (VOLTTLE ORGANIC CASES BY EXTRACTIVE FTI - SPECTROMETRY) - 2016 Comput - KITA-122 SA(C) (549 277) - Comput - KITA-123 SU (549 731) - Comput - KITA-133 SU (549 731) - COMPUT - KITA-13					
PDF print date: 15.03.2024 Fileckenvassar Art: 36999 INSHT MTAMA-031/A96 (Determination of ketones (acetone, methyl ethyl, ketone, methyl isobutyl ketone) in air - Charcoal lube method / Gas chromatography) - 1996 - EU project BC/CEN/ENTR/MOU2002-16 card 105 (2004) MDHS 72 (Volatile organic compounds in air – Laboratory method using pu aidid sofben tubes, thermal desorption and gas chromatography) - 1993 NIOSH 2504 (VOLATLE ORGANIC CONVENT) - 1996 NIOSH 2504 (VOLATLE ORGANIC CONVENT) - 2003 NIOSH 2505 (KETONES I) - 2003 NIOSH 2505 (KETONES I) - 2003 SPEN 1004 (2-Butanoe (MEK) Hoxone (MIBK)) - 2000 SPEN 1004 (2-Butanoe) OELV-15min: 300 ppm (900 mg/m3) (OELV- 15min, EU) SPEN 1004 (2-Butanoe) OELV-15min: 300 ppm (900 mg/m3) (OELV- 15min, EU) Monitoring procedures: Compur - KITA-133 SB (549 731) Compur - KITA-133 SB (549 731) Compur - KITA-133 U (549 749) DFG Mein-N-4 (10) (Lossungamittelgemische 4), DFG (E) (Solvent mixtun 2015 3002 NIDSH 2500 (METHYL ETHYL ETHYL KETONE) - 1996 NIOSH 2500 (METHYL ETHYL KETONE) - 1998 NIOSH 2500 (METHYL ETHY		n: 15.11.2023 / 00	02		
Fleckenwasser Art: 36999 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 SC/CEN/ENTR/000/2002-16 card 105 - (2004) MDH5 72 (Volatile organic compounds in air – Laboratory method using pu - solid sorbent tubes, thermal desorption and gas chromatography) - 1993 - NIOSH 2500 (METHYL ETHYL KETONE) - 1996 - NIOSH 2564 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996 - NIOSH 2564 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996 - NIOSH 2565 (KETONES) - 2003 - NIOSH 3000 (ORGANIC AND INORGANIC GASES BY EXTRACTIVE FTI - SPECTROMETRY) - 2016 - OCELV-8h: 200 ppm (600 mg/m3) (OELV-8h, EU) - OELV-9h: 200 ppm (600 mg/m3) (OELV-8h, EU) - Compur - KITA-123 SA(C) (549 277) - Compur - KITA-139 U (549 749) - DEGEV 4h: 200 ppm (600 mg/m3) (OELV-8h, EU) - Compur - KITA-139 U (549 749) - DEG MethNr. 4 (D) (Lossungsmitteligenische 4), DFG (E) (Solvent mixtur) - 2015, 2002 - 10024 -					
Art: 36999 INSHT MTAMA-031/A96 (Determination of ketones (acetone, methyl ethyl ketone, methyl isobudy ketone) in air - Charocal tube method / Gas chromatography) - 1996 - EU project BC/CEN/ENTR/000/2002-16 card 105 (2004) MDHS 72 (Volatile organic compounds in air - Laboratory method using pu solid sorben tubes, thermal desorption and gas chromatography) - 1993 NIOSH 2500 (METHYL ETHYL ETHYL KETONE) - 1996 NIOSH 2500 (METHYL ETHYL KETONE) - 1996 NIOSH 2500 (RCRAINC AND INORGANIC GASES BY EXTRACTIVE FTI - SPECTROMETRY) - 2016 OSHA 1000 (R2ANIC AND INORGANIC GASES BY EXTRACTIVE FTI - SPECTROMETRY) - 2016 OSHA 1000 (R2ANIC AND INORGANIC GASES BY EXTRACTIVE FTI - SPECTROMETRY) - 2016 OSHA 1000 (R2ANIC AND INORGANIC GASES BY EXTRACTIVE FTI - SPECTROMETRY) - 2016 OSHA 1000 (R2ANIC AND INORGANIC GASES BY EXTRACTIVE FTI - SPECTROMETRY) - 2016 Organical Name OELV-6h: 200 ppm (600 mg/m3) (OELV-6h, EU) - 15min, EU) Monitoring procedures: - 00mpur - KITA-123 SU (549 731) - 00mpur - KITA-123 SU (549 731) - 00mpur - KITA-133 U (549 731) - 00mpur - KITA-133 SU (549 731) - 00mpur - KITA-133 U (549 731) - 00mpur - KITA-133 U (549 731) - 00mpur - KITA-132 U (1486 (Determination of ketones (acetone, methyl ethyl ketone, methyl isobudy ketone) in air - Charocal tube method / Gas - thromatography) - 1996 - EU project BC/CEN/ENTR/000/2002-16 card 105 - (2004) - MIOSH 256 (KETONES I) - 2003 - NIOSH 2500 (METHYL ETHYL KETONE) - 1998 - NIOSH 256 (KETONES I) - 2003 - NIOSH 2500 (METHYL ETHYL KETONE) - 1998 - NIOSH 2500 (METHYL ETHYL KETONE) -					
INSHT MT.AVMA-031/A96 (Determination of ketones (acetone, methyl ethyl ketone, methyl isobuly ketone) in air - Charcoal tube method / Gas chromatography) - 1996 - EU project BC/CEN/ENTR/000/2002-16 card 105 (2004) MDHS 72 (Volatile organic compounds in air - Laboratory method using pu - sold sorbent tubes, thermal desorption and gas chromatography) - 1993 - NIOSH 2500 (NETHVL ETHVL KETONE) - 1996 NIOSH 2500 (NETHVL PTHVL KETONE) - 1996 SPECTREVICE (KETONE S) - 2003 NIOSH 3200 (ORGANIC AND INORGANIC GASES BY EXTRACTIVE FTI - SPECTREVICE (KETONE S) - 2003 NIOSH 3200 (ORGANIC AND INORGANIC GASES BY EXTRACTIVE FTI - SPECTREVICE (KETONE S) - 2003 NIOSH 3200 (ORGANIC AND INORGANIC GASES BY EXTRACTIVE FTI - SPECTREVICE (KETONE S) - 2003 ® Chemical Name Butanore OELV-3h: 200 ppm (600 mg/m3) (OELV-3h, EU) OELV-15min: 300 ppm (900 mg/m3) (OELV- - 15min, EU) Monitoring procedures: - Compur - KITA-132 SK (649 271) Compur - KITA-132 SU (549 277) - Compur - KITA-133 SK (549 731) Compur - KITA-132 SK (C) (549 277) - Compur - KITA-133 SK (549 731) Compur - KITA-133 SK (540 731) - Compur - KITA-133 SK (540 731) - Compur - KITA-133 SK (500 pm (900 mg/m3) (OELV- 15min, EU)					
ketone, methyl isobutyl ketone) in air - Charcoal tube method / Gas chromatography - 1996 - EU project BC/CEN/ENTR/000/2002-16 card 105 (2004) MDHS 72 (Volatile organic compounds in air - Laboratory method using pu - solid sorbent tubes, thermal desorption and gas chromatography) - 1993 - NIOSH 2549 (VOLATILE ORGANIC CAMPOUNDS (SCREENING)) - 1996 - NIOSH 2556 (KETONES I) - 2003 - NIOSH 2556 (KETONES I) - 2003 - BMGV: 70 µmol butan-2-one/l in urine, post shift (BMGV) OELV-3h: 200 ppm (600 mg/m3) (OELV-4hr. EU) - OSHA 1004 (2-Butanone (MEK) Hexone (MIBK)) 2000 - OSHA 1004 (2-Butanone (MEK) Hexone (MIBK)) 2001 - OELV-3h: 200 ppm (600 mg/m3) (OELV-4hr. EU) - Compur - KITA-138 U (549 741) - Compur - KITA-138 U (549 749) DFG MehrNr. 4 (D). Loseungsmittelgemische 4), DFG (E) (Solvent mixtur - 2015, 2002 INSHT MAMA-031A96 (Determination of ketones (acetone, methyl isbutyl ketone, methyl isobutyl ketone) in air - Laboratory method using pu - solid sorbent tubes, thermal desorption and gas chromatography) - 1993 - NIOSH 2556 (KETONES I) - 2003 - MIDHS 72 (Volatile organic compounds in air - Laboratory method using pu - solid sorbent tubes, thermal desorption and gas chromatography) - 1993 - NIOSH 2556 (KETONES I) - 2003	Art.: 36999				
ketone, methyl isobutyl ketone) in air - Charcoal tube method / Gas chromatography - 1996 - EU project BC/CEN/ENTR/000/2002-16 card 105 (2004) MDHS 72 (Volatile organic compounds in air - Laboratory method using pu - solid sorbent tubes, thermal desorption and gas chromatography) - 1993 - NIOSH 2549 (VOLATILE ORGANIC CAMPOUNDS (SCREENING)) - 1996 - NIOSH 2556 (KETONES I) - 2003 - NIOSH 2556 (KETONES I) - 2003 - BMGV: 70 µmol butan-2-one/l in urine, post shift (BMGV) OELV-3h: 200 ppm (600 mg/m3) (OELV-4hr. EU) - OSHA 1004 (2-Butanone (MEK) Hexone (MIBK)) 2000 - OSHA 1004 (2-Butanone (MEK) Hexone (MIBK)) 2001 - OELV-3h: 200 ppm (600 mg/m3) (OELV-4hr. EU) - Compur - KITA-138 U (549 741) - Compur - KITA-138 U (549 749) DFG MehrNr. 4 (D). Loseungsmittelgemische 4), DFG (E) (Solvent mixtur - 2015, 2002 INSHT MAMA-031A96 (Determination of ketones (acetone, methyl isbutyl ketone, methyl isobutyl ketone) in air - Laboratory method using pu - solid sorbent tubes, thermal desorption and gas chromatography) - 1993 - NIOSH 2556 (KETONES I) - 2003 - MIDHS 72 (Volatile organic compounds in air - Laboratory method using pu - solid sorbent tubes, thermal desorption and gas chromatography) - 1993 - NIOSH 2556 (KETONES I) - 2003				ormination of kotonos (a	cotopo, mothyl othyl
 chromatography) - 1996 - EU project BC/CEN/ENTR/000/2002-16 card 105 (2004) MDHS 72 (Volatile organic compounds in air - Laboratory method using pusited soften tubes, thermal desorption and gas chromatography) - 1993 NIOSH 2509 (METHYL ETHYL KETONE) - 1996 NIOSH 2559 (KETONES I) - 2003 NIOSH 2500 (METHYL ETHYL KETONE) - 1996 NIOSH 2569 (VoLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996 OSHA 1004 (2-Butanone (MEK) Hexone (MIBK)) - 2000 EMGV: 70 µmol butan-2-one/l in urine, post shift (BMGV) Other information: Sk Comput - KITA-122 SA(C) (549 277) Comput - KITA-139 SB (549 731) DFG MethNr. 4 (D) (Losesungsmittelgemische 4), DFG (E) (Solvent mixtur 2015, 2002 INSHT MTA/MA-031/A9G (Determination of ketones (acetone, methyl ethyl ketone) in air - Charcoal tube method / Gas chromatography) - 1996 NIOSH 2500 (METHYL ETHYL KETONE) - 1996 NIOSH 2500 (METHYL					
Coold : Compute Single Constraints in the set of the set					
MDHS 72 (Volatile organic compounds in air – Laboratory method using pu solid sorbient tubes, thermal desorption and gas chromatography) - 1993 NIOSH 2500 (METHYL ETHYL KETONE) - 1996 NIOSH 2555 (KETONES I) - 2003 NIOSH 3500 (ORGANIC AND INORGANIC GASES BY EXTRACTIVE FTI SPECTROMETRY) - 2016 OELV-8h: 200 ppm (600 mg/m3) (OELV- 15min, EU) OELV-8h: 200 ppm (600 mg/m3) (OELV- 15min, EU) Monitoring procedures: Compur - KITA-123 SIG (549 731) Compur - KITA-139 SIG (549 741) DFG MethNr. 4 (D) (Lossungsmittelgemische 4), DFG (E) (Solvent mixtur 2015, 202 NISHT 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/EN/TR/000/2002-16 card 105 (2004) MDHS 72 (Volatile organic compounds in air - Laboratory method using pu - solid sorben tubes, thermal desorption and gas chromatography) - 1993 NIOSH 2500 (METHYL ETHYL KETONE) - 1996 NIOSH 2550 (KETONES I) - 2000 BLV: 70 µmol butan-2-one/I in urine, post shift (BMGV) OELV-8h: 200 ppm (600 mg/m3) (OELV-8h, EU) - Compur - KITA-122 SA(C) (549 277) - Compur - KITA-139 US (549 731) - Compur - KITA-139 US (549 773) - Compur - KITA-139 US (549 774) - DFG MethN. 4 (D) Loseungsmittelgemische 4), DFG (E) (Solvent mixtur - 2015, 2002 - NIOSH 2500 (METHYL ETHYL KETONE) - 906 - NIOSH 2500 (MET					
 solid sorbent tubes, fiermal desorption and gas chromatography) - 1993 NIOSH 2500 (METHYL ETHYL KETONE) - 1996 NIOSH 2569 (KETONES) - 2003 NIOSH 2569 (KETONES) - 2003 BMGV: 70 µmol butan-2-one/l in urine, post shift (BMGV) OSHA 1004 (2-Butanone (MEK) H-xone (MIBK)) - 2000 BMGV: 70 µmol butan-2-one/l in urine, post shift (BMGV) OFter information: Sk Chemical Name Butanone OELV-8h: 200 ppm (600 mg/m3) (OELV-8h, EU) OELV-15min: 300 ppm (900 mg/m3) (OELV- Compur - KITA-132 SA (C) (549 277) Compur - KITA-132 SA (G) (549 277) Compur - KITA-133 SB (549 731) Compur - KITA-133 SB (549 731) Compur - KITA-133 U (549 749) DFG Meth-Nr. 4 (D) (Loesungsmittelgemische 4), DFG (E) (Solvent mixtur 2015, 2002 NINSH 72/02 (Volatile organic compounds in air - Charoal tube method / Gas chromatography) - 1993 - EU project BC/CEN/ETRR00/2021 fc ard 105 (2004) MDH5 72 (Volatile organic compounds in air - Laboratory method using pu solid sorbent tubes, thermal desorption and gas chromatography) - 1993 NIOSH 2559 (KETONES I) - 2003 NIOSH 2569 (VOLATILE ORGANIC CAMPUOUNDS (SCREENING)) - 1996 NIOSH 25				npounds in air – Laborat	ory method using pumped
NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1986 NIOSH 3500 (ORGANIC AND INORGANIC GASES BY EXTRACTIVE FTII SPECTROMETRY) - 2016 OSHA 1004 (2-Butanone (MEK) Hexone (MIBK)) - 2000 BMGV: 70 µmol butan-2-one/l in urine, post shift (BMGV) OELV-8h: 200 ppm (600 mg/m3) (OELV-8h, EU) OELV-8h: 200 ppm (600 mg/m3) (OELV-8h, EU) OELV-8h: 200 ppm (600 mg/m3) (OELV-8h, EU) OFG (E) (Solvent mixture Compur - KITA-133 SB (549 731) Compur - KITA-139 SB (549 731) Compur - KITA-139 SB (549 731) Sold Sobent tubes, thermal description and gas chromatography) - 1996 - EU project BC/CEN/ENTR/000/2002-16 card 105 (2004) INSHT MT/MAA-031/A96 (Determination of ketones (acetone, methyl febyl ketone methyl febyl ketone) in air - Charcoal tube method / Gas chromatography) - 1996 - EU project BC/CEN/ENTR/000/2002-16 card 105 (2004) MDH5 72 (Volarile organic compounds in air - Laboratory method using pu solid sobent tubes, thermal desorption and gas chromatography) - 1998 NIOSH 2556 (KETOMETRY) - 2016 SPECTROMETRY) - 2016 SPECTROMETRY) - 2016 SPECTROMETRY) - 2016 OSHA 1004 (2-Butanone (MEK) Hexone (MIBK)) - 2000 EUV: 70 µmol butan-2-one/l in urine, post shift (BMGV) Orther information: Sk, IOELV Compur - KITA-139 SB (549 731) Compur - KITA-139 SB (549 73		-	solid sorbent tubes, thermal de	sorption and gas chrom	atography) - 1993
 NIOSH 2555 (KETONES I) - 2003 NIOSH 2555 (KETONES I) - 2006 OSHA 1004 (2-Butanone (MEK) Hexone (MEK)) - 2000 BMGV: 70 µmol butan-2-one/l in urine, post shift (BMGV) Other information: Sk Chemical Name Butanone OELV-8h: 200 ppm (600 mg/m3) (OELV-8h, EU) OELV-8h: 200 ppm (600 mg/m3) (OELV-8h, EU) Compur. KITA-129 SA(C) (549 277) Compur. KITA-139 SB (549 731) Compur. KITA-149 SB (549 731) Compur. KITA-149 SB (549 731) Compur. KITA-129 SA(C) (548 277) Contactional tube method / Gas chromatography i 1956 - EU project BC/CENVENTR/000/2002 -16 card 105 (2004) MDEHS 72 (Volatile organic compounds in air - Laboratory method using pu solid sorbent tubes, thermal desorption and gas chromatography i - 1938 NIOSH 2556 (KETONES I) - 2003 NIOSH 2649 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1966 NIOSH 2556 (KETONES I) - 2001 OSHA 1004 (2-Butanone (MEK) Hexone (MIBK)) - 2000 BLV: 70 µmol butan-2-one/l in urine, post Shift (BMGV) Other information: Sk, IOELV Compur. KITA-132 SAS					
NIOSH 3800 (ORGANIC AND INORGANIC GASES BY EXTRACTIVE FTI SPECTROMETRY) - 2016 OSHA 1004 (2-Butanone (MEK) Hexone (MIBK)) - 2000 BMGV: 70 µmol butan-2-one/i in urine, post shift (BMGV) Other information: Sk Chemical Name Butanone OELV-8h: 200 ppm (600 mg/m3) (OELV-8h, EU) OELV-15min; 300 ppm (900 mg/m3) (OELV- 15min; EU) OELV-15min; 300 ppm (900 mg/m3) (OELV- 15min; EU) Compur - KITA-132 SA(50 f31) - Compur - KITA-139 SB (549 731) - Compur - KITA-139 U (549 749) DFG Meth-Nr. 4 (D) (Loesungsmittelgemische 4), DFG (E) (Solvent mixtur 2016, 2002 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 105 - (2004) MDHS 72 (Volatile organic compounds in air – Laboratory method using pu - solid sorbent tubes, thermal desorption and gas thromatography) - 1996 - NIOSH 2550 (METHYL, ETHYL KETONE) - 1996 - NIOSH 2555 (KETONES I) - 2003 NIOSH 2550 (OELV-8h; EU) Other information: Sk, IOELV - Compur - KITA-139 SB (549 731) - Compur - KITA-139 SB (549 7371) - Compur - KITA-129 SB (54					CREENING)) - 1996
 SPECTROMETRY) - 2016 OSHA 1004 (2-Butanone (MEK) Hexone (MIBK)) - 2000 BMGV: 70 µmol butan-2-one/l in urine, post shift (BMGV) Other information: Sk Othemical Name OELV-8h: 200 ppm (600 mg/m3) (OELV-8h, EU) OELV-15min: 300 ppm (900 mg/m3) (OELV- Immin, EU) Monitoring procedures: Compur - KITA-139 SB (549 731) Compur - KITA-139 U (549 747) Compur - KITA-139 U (549 747) Compur - KITA-139 U (549 747) Compur - KITA-139 U (549 743) Coronatography) - 1966 - EU project BC/CEN/ENTR/000/2002-16 card 105 (2004) MDHS MANA-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 105 (2004) MDHS 72 (Volatile organic compounds in air - Laboratory method using pu - solid sorbent tubes, thermal desorption and gas chromatography) - 1993 NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996 NIOSH 2549 (VOLATILE ORGANIC CMPOUNDS (SCREENING)) - 1996 NIOSH 2555 (KETONES I) - 2003 NIOSH 2550 (METRY) - 2016 OSHA 1004 (2-Butanone (MEK) Hexone (MIBK)) - 2000 BLV: 70 µmol butan-2-one/l in urine, post shift (BMGV) Other information: Sk, IOELV Compur - KITA-123 S0 (D fa9 743) Compur - KITA-139 U (549 743) Compur - KITA-139 U (549 749) DFG (EU Reits - 200 pm (600 mg/m3) (OELV-ST. 300 ppm (900 mg/m3) (OELV-ST, EU) Compur - KITA-139 U (549 749) DFG Meth-Nr. 4 (D) (Locsungsmittelgemische 4), DFG (E) (Solvent mixtur 2015, 2002 NINSHT MTA/MA-031/A96 (Determination of ketones (acetone, methyl ethyl ketone, methyl isobutyl ketone) in air - Charcoal tube method / Gas chromatogra					
 OSHA 1004 (2-Butanone (MEK) Hexone (MEK) - 2000 MGV: 70 µmol butan-2-one/l in urine, post shift (BMGV) Other information: Sk Chemical Name OELV-8h: 200 ppm (600 mg/m3) (OELV-8h, EU) OELV-8h: 200 ppm (600 mg/m3) (OELV-8h, EU) OELV-8h: 200 ppm (600 mg/m3) (OELV-8h, EU) OELV-9h: 200 ppm (600 mg/m3) (OELV-8h, EU) OELV-9h: 200 ppm (600 mg/m3) (OELV-8h, EU) Compur - KITA-139 BS (649 749) DFG MethNr. 4 (D) (Lossungsmittelgemische 4), DFG (E) (Solvent mixtur 2015, 2002 INSHT MTA/NA-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 105 (2004) MDHS 72 (Volatile organic compounds in air - Laboratory method using pu solid sorbent tubes, thermal desorption and gas chromatographyl) - 1998 NIOSH 2549 (VOLATILE ORGANIC CAMD UNDS (SCREENING)) - 1996 NIOSH 2540 (VOLATILE ORGANIC CAMD UNDS (SCREENING)) - 1996 NIOSH 2555 (KETONES I) - 2003 NIOSH 2500 (METHYL ETHYL KETONE) - 1996 NIOSH 2500 (METHYL 214) SPECTROMETRY) - 2016 OChemical Name Butanone OELV-9h: 200 ppm (600 mg/m3) (OELV-9h, EU) Compur - KITA-132 SA(C) (549 277) Compur - KITA-132 SB (649 731) Compur - KITA-139 SU (549 731) Compur - KITA-139 SU (549 277) Compur - KITA-139 SU (549 731) Compur - KITA-139 SU (549 277)				INURGANIC GASES BY	I EXTRACTIVE FIIR
BMGV: 70 µmol butan-2-one/l in urine, post shift (BMGV) Other information: Sk Chemical Name Butanone OELV-8h: 200 ppm (600 mg/m3) (OELV-8h, EU) CELV-15min: 300 ppm (900 mg/m3) (OELV-15min: 500 ppm (900 mg/m3) (OELV-15min: 500 ppm (S00 mg/m3) (OELV-8h, EU)					0
Chemical Name Butanone OELV-8h: 200 ppm (600 mg/m3) (OELV-8h, EU) OELV-15min: 300 ppm (900 mg/m3) (OELV- Monitoring procedures: - Compur - KITA-132 SB (649 277) - Compur - KITA-139 SB (649 731) - Compur - KITA-139 U (549 731) - Compur - KITA-139 U (549 749) DFG Meth-Nr. 4 (D) (Loesungsmittelgemische 4), DFG (E) (Solvent mixtur - 2015, 2002 INSHT MT/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 105 - (2004) MDHS 72 (Volatile organic compounds in air - Laboratory method using pu - solid sorbent tubes, thermal desorption and gas chromatography) - 1993 - NIOSH 2500 (MCETHY E THYL KETONE) - 1996 - - NIOSH 2530 (KETONES I) - 2003 NIOSH 2530 (KETONES I) - 2003 NIOSH 2550 (KETONES I) - 2003 NIOSH 2500 (METHYL E THYL KETONE) - 1996 - - Obstantile (BMGV) Other information: Sk, IOELV - Organ - KITA-139 B (549 77) - - Compur - KITA-139 B (549 731) - - Compur - KITA-139 B (549 731)	BMGV: 70 umol butan-2-one/Li	n urine nost shift i	(BMGV)		
OELV-8h: 200 ppm (600 mg/m3) (OELV- 15min, EU) OELV-15min: 300 ppm (900 mg/m3) (OELV- 15min, EU) Monitoring procedures: - Compur - KITA-129 SA(C) (549 277) - - Nonitoring procedures: - Compur - KITA-139 U (549 749) DFG MethNr. 4 (D) (Loesungsmittelgemische 4), DFG (E) (Solvent mixtur - 2015, 2002 INSHT MTX/MA-031/A96 (Determination of ketones (acetone, methyl ethyl ketone, methyl isobutly ketone) in air - Charcoal tube method / Gas chromatography) - 1996 - EU project BC/CEN/ENTR/000/2002-16 card 105 - (2004) MDHS 72 (Volatile organic compounds in air - Laboratory method using pu - - solid sorbert tubes, thermal desorption and gas chromatography) - 1993 - NIOSH 2550 (MCTHYL ETHYL KETONE) - 1996 - NIOSH 2550 (NCGANIC AND INORGANIC GASES BY EXTRACTIVE FTII - - SPECTROMETRY) - 2016 - NIOSH 2550 (NCGANIC AND INORGANIC GASES BY EXTRACTIVE FTII - - SPECTROMETRY) - 2016 - OSHA 1004 (2-Butanone (MEK) Hexone (MIBK)) - 2000 BLV: 70 µmol butan-2-one/I in urine, post shift (BMSV) OELV-8h: 200 ppm (600 mg/m3) (OELV-8h, EU) - Compur - KITA-122 SA(C) (549 277) - Compur - KITA-122 SA(C) (549 277) - Compur - KITA-122 SA(C) ((-··· · ·)		
Monitoring procedures: Compur - KITA-132 SA(C) (549 277) Compur - KITA-139 SB (549 731) Compur - KITA-139 SD (549 749) DFG MethNr. 4 (D) (Lossungsmittelgemische 4), DFG (E) (Solvent mixtur 2015, 2002 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/ENTR7000/2002-16 card 105 (2004) MDFS 72 (Volatile organic compounds in air - Laboratory method using pu solid sorbent tubes, thermal desorption and gas chromatography) - 1993 NIOSH 2550 (WETHYL ETHYL ETHYL ETHYL ETORE) - 1996 NIOSH 2555 (KETONES I) - 2003 NIOSH 2555 (KETONES I) - 2003 NIOSH 3800 (ORGANIC AND INORANIC GASES BY EXTRACTIVE FTII SPECTROMETRY) - 2016 OSHA 1004 (2-Butanone (MEK) Hexone (MIBK)) - 2000 BLV: 70 µmol butan-2-one/l in urine, post shift (BMGV) Other information: Sk, IOELV Compur - KITA-132 SA(C) (549 277) Compur - KITA-132 SA(C) (549 277) Compur - KITA-132 SA(C) (549 277) Compur - KITA-133 SB (549 731) Compur - KITA-133 SB (549 731) Compur - KITA-139 SB (549 749) DFG MethNr 4 (D) (Lossungsmittelgemische 4), DFG (E) (Solvent mixtur 2015, 2002 INSHT MTA/MA-031/A96 (Determination of ketones (acetone, methyl ethyl ketone, methyl isobutyl ketone) in air - Charcoal tube method / Gas chromatography) - 1996 INSH 2555 (KETONE) - 1996 NIOSH 2550 (METHYL ETHYL ETHYL ETHYL ETHYL ETHYL ETHYL K					
 Compur - KITA-139 B(549 731) Compur - KITA-139 U(549 749) DFG MethNr. 4 (D) (Loesungsmittelgemische 4), DFG (E) (Solvent mixtur 2015, 2002 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/ENTR7000/2002-16 card 105 (2004) MDHS 72 (Volatile organic compounds in air - Laboratory method using pu - solid sorbent tubes, thermal desorption and gas chromatography) - 1993 NIOSH 2500 (METHYL ETHYL KETONE) - 1996 NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996 NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996 NIOSH 3800 (ORGANIC AND INORGANIC GASES BY EXTRACTIVE FTII - SPECTROMETRY) - 2016 OSHA 1004 (2-Butanone (MEK) Hexone (MIBK)) - 2000 BLV: 70 µmol butan-2-one/l in urine, post shift (BMGV) Other information: Sk, IOELV Compur - KITA-139 U (549 731) Compur - KITA-139 U (549 749) DFG MethNr. 4 (D) (Loesungsmittelgemische 4), DFG (E) (Solvent mixtur 2015, 2002 INSHT MTA/MA-031/A96 (Determination of ketones (acetone, methyl ethyl ketone) in air - Laboratory method using pu solid sorbent tubes, thermal desorption and gas chromatography) - 1993 NIOSH 2550 (METHYL ETHYL ETHYL ETHYL ETHYCENTRIRO00/2022-16 card 105 (2004) MDHS 72 (Volatile organic compounds in air - Laboratory method using pu solid sorbent tubes, thermal desorption and gas chromatography) - 1993 NIOSH 2550 (METHYL ETHYL ETHYL ETHYL ETHYL ETHYL ETHYL KETONE) - 1996 NIOSH 2550 (METHYL ETHYL ETHYL ETHYL ETHYL ETHYL (SERENING)) - 1996 NIOSH 2555 (KETONES I) - 2003 NIOSH 2555 (KETONES I) - 2003 NIOSH 2555 (KETONES I) - 2003 NIOSH 2			15min, EU)	0 / (
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 2015, 2002 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 105 (2004) MDHS 72 (Volatile organic compounds in air – Laboratory method using pu solid sorbent tubes, thermal desorption and gas chromatography) - 1993 NIOSH 2550 (METHYL ETHYL ETHORE) - 1996 NIOSH 2559 (KETONES I) - 2003 NIOSH 2555 (KETONES I) - 2003 NIOSH 2500 (METHYL ETHYL KETONE) - 1996 OSHA 3000 (ORGANIC AND INORGANIC GASES BY EXTRACTIVE FTII SPECTROMETRY) - 2016 OSHA 3000 (ORGANIC AND INORGANIC GASES BY EXTRACTIVE FTII SPECTROMETRY) - 2016 OSHA 1004 (2-Butanone (MEK) Hexone (MIBK)) - 2000 BLV: 70 µmol butan-2-one/l in urine, post shift (BMGV) Other information: Sk. IOELV Compur - KITA-139 SB (549 731) Compur - KITA-139 U (G49 749) DFG MethNr. 4 (D) (Loesungsmittelgemische 4), DFG (E) (Solvent mixtur 2015, 2002 INSHT MTA/MA-031/A96 (Determination of ketones (acetone, methyl ethyl ketone, methyl isobutyl ketone) in air - Laboratory method using pu solid sorbent tubes, thermal desorption and gas chromatography) - 1993 NIOSH 2550 (KETONES I) - 2003 NIOSH 2500 (METHYL ETHYL ETHYL KETONE) - 1996 NIOSH 2500 (METHYL HETHYL KETONE) - 1996 NIOSH 2500 (METHYL ETHYL KETONE) - 1996 NIOSH 2550 (METHYL ETHYL ETHYL KETONE) - 1996 NIOSH 2550 (METHYL ETHYL ETHYL KETONE) - 1996 NIOSH 2550 (METHYL ETHYL KETONE) - 1996 NIOSH 2550 (METHYL ETHYL KETONE) - 1996					(E) (Solvent mixtures A).
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 105 (2004) MDHS 72 (Volatile organic compounds in air – Laboratory method using pu solid sorbent tubes, thermal desorption and gas chromatography) - 1993 - NIOSH 2500 (METHYL ETHYL ETHYL KETONE) - 1996 NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996 - NIOSH 2555 (KETONES I) - 2003 NIOSH 3800 (ORGANIC AND INORGANIC GASES BY EXTRACTIVE FTII SPECTROMETRY) - 2016 - OSHA 1004 (2-Butanone (MEK) Hexone (MIBK)) - 2000 BLV: 70 µmol butan-2-one/l in urine, post shift (BMGV) - 000 mg/m3) (OELV-ST, EU) Monitoring procedures: - Compur - KITA-132 SA(C) (5649 277) Compur - KITA-133 BS (549 731) - Compur - KITA-133 BS (549 731) - Compur - KITA-133 BS (549 731) - Compur - KITA-133 U (549 749) DFG MethNr. 4 (D) (Loesungsmittelgemische 4), DFG (E) (Solvent mixtur - 2015, 2002 INSHT MTA/MA-031/A96 (Determination of ketones (acetone, methyl ethyl ketone, methyl ketone) in air - Laboratory method using pu - solid sorbent tubes, thermal desorption and gas chromatography) - 1993 - NIOSH 27 (Volatile organic compounds in air - Laboratory method using pu - solid sorbent tubes, thermal desorption and gas chromatography) - 1993 - NIOSH 2500 (METHYL ETHYL KETONE) - 1996 - NIOSH 2550 (KETONES) - 2003 NIOSH 2550 (KETONES) - 2003 - NIOSH 2559 (KETONES) - 2003 - OSHA 1004 (2-Butanone (MEK)					
ketone, methyl isobutyl ketone) in air - Charcoal tube method / Gas chromatography) - 1996 - EU project BC/CEN/ENTR/000/2002-16 card 105 (2004) MDHS 72 (Volatile organic compounds in air – Laboratory method using pu solid sorbent tubes, thermal desorption and gas chromatography) - 1993 NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996 NIOSH 2555 (KETONES I) - 2003 NIOSH 3555 (KETONES I) - 2003 NIOSH 2555 (KETONES I) - 2000 BLV: 70 µmol butan-2-one/l in urine, post shift (BMGV) Oftenrical Name Butanone OELV-8h: 200 ppm (600 mg/m3) (OELV-8h, EU) Ocmpur - KITA-132 SAC() (549 277) Compur - KITA-139 SB (549 731) Compur - KITA-139 U (549 749) DFG MethNr. 4 (D) DEG MethNr. 4 (D) Log Start (Liborgraphy) - 1996 - EU project BC/CEN/ENTR/000/2002-16 card 105 (2004) Monitoring procedures: Compur - KITA-139 U (549 749) DFG MethNr. 4 (D) Log Start (Liborgraphy) - 1996 - EU project BC/CEN/ENTR/000/2002-16 card 105 (2004) MDHS 72 (Volatile organic compounds in air – Laboratory method using pu solid sorbent tubes, thermal desorption and gas chromatography) - 1993 NIOSH 2550 (METTH				ermination of ketones (a	cetone, methyl ethyl
chromatography) - 1996 - EU project BC/CEN/ENTR/000/2002-16 card 105 - (2004) MDHS 72 (Volatile organic compounds in air – Laboratory method using pu - solid sorbent tubes, thermal desorption and gas chromatography) - 1993 - NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996 - NIOSH 2555 (KETONES I) - 2003 NIOSH 2555 (KETONES I) - 2003 BLV: 70 µmol butan-2-one/I in urine, post shift (BMGV) Other information: Sk, IOELV - OSHA 1004 (2-Butanone (MEK) Hexone (MIBK)) - 2000 BLV: 70 µmol butan-2-one/I in urine, post shift (BMGV) Other information: Sk, IOELV - Compur - KITA-122 SA(C) (549 277) - Compur - KITA-139 U (549 749) DFG MethNr. 4 (D) (Loesungsmittelgemische 4), DFG (E) (Solvent mixtur - 2015, 2002 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 105 - (2004) MDHS 72 (Volatile organic compounds in air - Laboratory method using pu - solid sorbent tubes, thermal desorption and gas chromatography) - 1993 - NIOSH 2500 (METHYL ETHYL ETHYL KETONE) - 1996 - NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996 - NIOSH 2545 (KETONES I) - 2003 - NIOSH 2545 (KETONES I) - 2004 - MIOSH 2545 (KETONES I) - 2004 - NIOSH 2545 (KETONES I) - 2003 - NIOSH 2555 (KETONES I) - 2003 - NIOSH 2555 (KETONES I) - 2004 - NIOSH 2555 (KETONES I) - 2005 - NIOSH 2555 (KETONES I) - 2000 - OSHA 1004 (2-Butanone (MEK) Hexone (M					
MDHŠ 72 (Volatile organic compounds in air – Laboratory method using pu - solid sorbent tubes, thermal desorption and gas chromatography) - 1993 NIOSH 2500 (METHYL ETHYL KETONE) - 1996 - NIOSH 2555 (KETONES I) - 2003 NIOSH 3800 (ORGANIC AND INORGANIC GASES BY EXTRACTIVE FTIL - SPECTROMETRY) - 2016 - OSHA 1004 (2-Butanone (MEK) Hexone (MIBK)) - 2000 BLV: 70 µmol butan-2-one/L in urine, post shift (BMGV) Compur - KITA-139 SB (549 773) - Compur - KITA-139 SB (549 774) - Compur - KITA-139 SB (549 773) - Compur - KITA-139 SB (549 774) - Compur - KITA-139 SB (549 773) - Compur - KITA-139 SB (549 774) - Solid sorbent tubes, thermal desorption and gas chromatography) - 1996 - NIOSH 2555 (KETONES I) - 2003 - NIOSH 2555 (KETONES I) - 2003 - NIOSH 2555 (KETONES I) - 2000					
 solid sorbent tubes, thermal desorption and gas chromatography) - 1993 NIOSH 2500 (METHYL KETONE) - 1996 NIOSH 2555 (KETONES I) - 2003 NIOSH 3260 (ORGANIC AND INORGANIC GASES BY EXTRACTIVE FTII SPECTROMETRY) - 2016 OSHA 1004 (2-Butanone (MEK) Hexone (MIBK)) - 2000 BLV: 70 µmol butan-2-one/l in urine, post shift (BMGV) Other information: Sk, IOELV Chemical Name Butanone OELV-8h: 200 ppm (600 mg/m3) (OELV-8h, EU) Comput - KITA-122 SA(C) (549 277) Comput - KITA-139 U (549 749) DFG MethNr. 4 (D) (Loesungsmittelgemische 4), DFG (E) (Solvent mixtur 2015, 2002 INSHT MTA/MA-031/A96 (Determination of ketones (acetone, methyl ethyl ketone, methyl isobutyl ketone) in air - Charcoal tube method / Gas chromatography) - 1993 NIOSH 2500 (METHYL ETHYL KETONE) - 1996 NIOSH 2550 (METHYL ETHYL KETONE) - 1996 NIOSH 2555 (KETONES I) - 2003 NIOSH 2555 (KETONES I) - 2003 NIOSH 2550 (METHYL ETHYL KETONE) - 1996 NIOSH 2550 (METHYL ETHYL KETONE) - 1996 NIOSH 2550 (METHYL ETHYL KETONE) - 1996 NIOSH 2555 (KETONES I) - 2003 NIOSH 2555 (METHY) - 2016 OSHA 1004 (2-Butanone (MEK) Hexone (MIBK)) - 2000 BMGV: 70 µmol butan-2-one/L in urine, post shift (BMGV) Other information: Chemical Name 					
 NIOSH 2500 (METHYL KĖTONE) - 1996 NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996 NIOSH 2554 (KETONES I) - 2003 NIOSH 3800 (ORGANIC AND INORGANIC GASES BY EXTRACTIVE FTII SPECTROMETRY) - 2016 OSHA 1004 (2-Butanone (MEK) Hexone (MIBK)) - 2000 BLV: 70 µmol butan-2-one/L in urine, post shift (BMGV) OELV-8h: 200 ppm (600 mg/m3) (OELV-8h, EU) OELV-8h: 200 ppm (600 mg/m3) (OELV-8h, EU) OELV-8h: 200 ppm (600 mg/m3) (OELV-8h, EU) OCmpur - KITA-122 SA(C) (549 277) Compur - KITA-139 SB (549 731) Compur - KITA-139 U (549 749) DFG MethNr. 4 (D) (Loesungsmittelgemische 4), DFG (E) (Solvent mixtur 2015, 2002 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 105 (2004) MDHS 72 (Volatile organic compounds in air - Laboratory method using pu solid sorbent tubes, thermal desorption and gas chromatography) - 1993 NIOSH 2500 (METHYL ETHYL KETONE) - 1996 NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1993 NIOSH 2549 (VOLATILE ORGANIC CAMPOUNDS (SCREENING)) - 1996 NIOSH 2550 (METHYL ETHYL KETONE) - 2003					
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 NIOSH 2555 (KETONES I) - 2003 NIOSH 3800 (ORGANIC AND INORGANIC GASES BY EXTRACTIVE FTII - SPECTROMETRY) - 2016 OSHA 1004 (2-Butanone (MEK) Hexone (MIBK)) - 2000 BLV: 70 µmol butan-2-one/l in urine, post shift (BMGV) Other information: Sk, IOELV Chemical Name Butanone OELV-8h: 200 ppm (600 mg/m3) (OELV-8h, EU) OELV-8h: 200 ppm (600 mg/m3) (OELV-8h, EU) Compur - KITA-122 SA(C) (549 277) Compur - KITA-139 SB (549 731) Compur - KITA-139 U (549 749) DFG MethNr. 4 (D) (Loesungsmittelgemische 4), DFG (E) (Solvent mixtur 2015, 2002 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 105 - (2004) MDHS 72 (Volatile organic compounds in air – Laboratory method using pu - solid sorbent tubes, thermal desorption and gas chromatography) - 1993 NIOSH 2550 (KETONES I) - 2003 NIOSH 2555 (KETONES I) - 2000 BMGV: 70 µmol butan-2-one/L in urine, post shift (BMGV) Other information: Chemical Name Citral 					
NIOSH 3800 (ORGANIC ÁND INORGANIC GASES BY EXTRACTIVE FTI SPECTROMETRY) - 2016 OSHA 1004 (2-Butanone (MEK) Hexone (MIBK)) - 2000 BLV: 70 µmol butan-2-one/L in urine, post shift (BMGV) Other information: Sk, IOELV Chemical Name Butanone OELV-8h: 200 ppm (600 mg/m3) (OELV-8h, EU) OELV-ST: 300 ppm (900 mg/m3) (OELV-ST, EU) Compur - KITA-122 SA(C) (549 277) Compur - KITA-139 SB (549 731) Compur - KITA-139 SB (549 731) Compur - KITA-139 U (549 749) DFG MethNr. 4 (D) (Loesungsmittelgemische 4), DFG (E) (Solvent mixture 2015, 2002 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 105 (2004) MDHS 72 (Volatile organic compounds in air – Laboratory method using pu solid sorbent tubes, thermal desorption and gas chromatography) - 1993 NIOSH 2500 (METHYL ETHYL KETONE) 1996 NIOSH 2555 (KETONES I) - 2003 NIOSH 3800 (ORGANIC AND INORGANIC GASES BY EXTRACTIVE FTII SPECTROMETRY) - 2016 OSHA 1004 (2-Butanone (MEK)) Hexone (MIBK)) - 2000 BMGV: 70 µmol butan-2-one/L in urine, post shift (BMGV) Other information:					CREENING)) - 1996
 SPECTROMÉTRY) - 2016 OSHA 1004 (2-Butanone (MEK) Hexone (MIBK)) - 2000 BLV: 70 µmol butan-2-one/l in urine, post shift (BMGV) Other information: Sk, IOELV Chemical Name Butanone OELV-8h: 200 ppm (600 mg/m3) (OELV-8h, EU) OELV-8h: 200 ppm (600 mg/m3) (OELV-8h, EU) Ompur - 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 mixture 2015, 2002 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 105 (2004) MDHS 72 (Volatile organic compounds in air – Laboratory method using pu - solid sorbent tubes, thermal desorption and gas chromatography) - 1993 NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996 NIOSH 2549 (VOLATILE ORGANIC CASES BY EXTRACTIVE FTII - SPECTROMETRY) - 2016 OSHA 1004 (2-Butanone (MEK) Hexone (MIBK)) - 2000 BMGV: 70 µmol butan-2-one/L in urine, post shift (BMGV) Other information: To µmol butan-2-one/L in urine, post shift (BMGV) Other information: 					Y EXTRACTIVE ETIR
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BLV: 70 µmol butan-2-one/l in urine, post shift (BMGV) Other information: Sk, IOELV Chemical Name Butanone OELV-ST: 300 ppm (900 mg/m3) (OELV-ST, EU) Monitoring procedures: - Compur - KITA-122 SA(C) (549 277) Compur - KITA-139 SB (549 731) - Compur - KITA-139 SB (549 731) DFG MethNr. 4 (D) (Loesungsmittelgemische 4), DFG (E) (Solvent mixture 2015, 2002 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 105 - (2004) MDHS 72 (Volatile organic compounds in air – Laboratory method using pu - solid sorbent tubes, thermal desorption and gas chromatography) - 1993 - NIOSH 2500 (METHYL ETHYL KETONE) - 1996 - NIOSH 2550 (METIHYL ETHYL KETONE) - 1996 - NIOSH 2550 (METHYL ETHYL KETONE) - 1996 - NIOSH 2555 (KETONES I) - 2003 NIOSH 3800 (ORGANIC AND INORGANIC GASES BY EXTRACTIVE FTII - SPECTROMETRY) - 2016 - OSHA 1004 (2-Butanone (MEK) Hexone (MIBK)) - 2000 BMGV: 70 µmol butan-2-one/L in urine, post shift (BMGV) Other information: ® Chemical Name Citral Citral				K) Hexone (MIBK)) - 200	0
OELV-8h: 200 ppm (600 mg/m3) (OELV-8h, EU) OELV-ST: 300 ppm (900 mg/m3) (OELV-ST, EU) Monitoring procedures: - Compur - KITA-139 SB (549 731) - - - Compur - KITA-139 U (549 749) DFG MethNr. 4 (D) (Loesungsmittelgemische 4), DFG (E) (Solvent mixture - - 2015, 2002 INSHT MTA/MA-031/A96 (Determination of ketones (acetone, methyl ethyl ketone, methyl isobutyl ketone) in air - Charcoal tube method / Gas - (2004) MDHS 72 (Volatile organic compounds in air – Laboratory method using pu - - solid sorbent tubes, thermal desorption and gas chromatography) - 1993 - NIOSH 2550 (METHYL ETHYL KETONE) - 1996 - NIOSH 2555 (KETONES I) - 2003 NIOSH 3800 (ORGANIC AND INORGANIC GASES BY EXTRACTIVE FTII - SPECTROMETRY) - 2016 - OSHA 1004 (2-Butanone (MEK) Hexone (MIBK)) - 2000 BMGV: 70 µmol butan-2-one/L in urine, post shift (BMGV) Other information:	BLV: 70 µmol butan-2-one/l in u				
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Monitoring procedures: - Compur - KITA-122 SA(C) (549 277) - Compur - KITA-139 SB (549 731) - Compur - KITA-139 U (549 749) DFG MethNr. 4 (D) (Loesungsmittelgemische 4), DFG (E) (Solvent mixture - 2015, 2002 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 105 - (2004) MDHS 72 (Volatile organic compounds in air – Laboratory method using pu - solid sorbent tubes, thermal desorption and gas chromatography) - 1993 - NIOSH 2500 (METHYL ETHYL KETONE) - 1996 - NIOSH 2555 (KETONES I) - 2003 NIOSH 3800 (ORGANIC AND INORGANIC GASES BY EXTRACTIVE FTII - SPECTROMETRY) - 2016 - OSHA 1004 (2-Butanone (MEK) Hexone (MIBK)) - 2000 BMGV: 70 µmol butan-2-one/L in urine, post shift (BMGV) Citral Citral			OELV-ST: 300 ppm (900	mg/m3) (OFLV-ST_FLI)	
 Compur - KITA-139 SB (549 731) Compur - KITA-139 U (549 749) DFG MethNr. 4 (D) (Loesungsmittelgemische 4), DFG (E) (Solvent mixture 2015, 2002 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 105 (2004) MDHS 72 (Volatile organic compounds in air – Laboratory method using pu - solid sorbent tubes, thermal desorption and gas chromatography) - 1993 NIOSH 2500 (METHYL ETHYL KETONE) - 1996 NIOSH 2500 (METHYL ETHYL KETONE) - 1996 NIOSH 2555 (KETONES I) - 2003 NIOSH 3800 (ORGANIC AND INORGANIC GASES BY EXTRACTIVE FTII - SPECTROMETRY) - 2016 OSHA 1004 (2-Butanone (MEK) Hexone (MIBK)) - 2000 BMGV: 70 µmol butan-2-one/L in urine, post shift (BMGV) Other information: Chemical Name 	·· · · ·				1
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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 105 - (2004) MDHS 72 (Volatile organic compounds in air – Laboratory method using pu - solid sorbent tubes, thermal desorption and gas chromatography) - 1993 - NIOSH 2500 (METHYL ETHYL KETONE) - 1996 - NIOSH 2500 (METHYL ETHYL KETONE) - 1996 - NIOSH 2555 (KETONES I) - 2003 NIOSH 2555 (KETONES I) - 2003 NIOSH 3800 (ORGANIC AND INORGANIC GASES BY EXTRACTIVE FTII - SPECTROMETRY) - 2016 - OSHA 1004 (2-Butanone (MEK) Hexone (MIBK)) - 2000 BMGV: 70 µmol butan-2-one/L in urine, post shift (BMGV) Chemical Name Citral			DFG MethNr. 4 (D) (Loesung		G (E) (Solvent mixtures 4) ·
ketone, methyl isobutyl ketone) in air - Charcoal tube method / Gas chromatography) - 1996 - EU project BC/CEN/ENTR/000/2002-16 card 105 - (2004) MDHS 72 (Volatile organic compounds in air – Laboratory method using pu - solid sorbent tubes, thermal desorption and gas chromatography) - 1993 - NIOSH 2500 (METHYL ETHYL KETONE) - 1996 - NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996 - NIOSH 2555 (KETONES I) - 2003 NIOSH 3800 (ORGANIC AND INORGANIC GASES BY EXTRACTIVE FTII - SPECTROMETRY) - 2016 - OSHA 1004 (2-Butanone (MEK) Hexone (MIBK)) - 2000 BMGV: 70 µmol butan-2-one/L in urine, post shift (BMGV) Chemical Name Citral					
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 solid sorbent tubes, thermal desorption and gas chromatography) - 1993 NIOSH 2500 (METHYL ETHYL KETONE) - 1996 NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996 NIOSH 2555 (KETONES I) - 2003 NIOSH 3800 (ORGANIC AND INORGANIC GASES BY EXTRACTIVE FTIL SPECTROMETRY) - 2016 OSHA 1004 (2-Butanone (MEK) Hexone (MIBK)) - 2000 BMGV: 70 µmol butan-2-one/L in urine, post shift (BMGV) Other information: Chemical Name 				npounds in air – Laborat	orv method using numbed
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 NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996 NIOSH 2555 (KETONES I) - 2003 NIOSH 3800 (ORGANIC AND INORGANIC GASES BY EXTRACTIVE FTII SPECTROMETRY) - 2016 OSHA 1004 (2-Butanone (MEK) Hexone (MIBK)) - 2000 BMGV: 70 µmol butan-2-one/L in urine, post shift (BMGV) Other information: Chemical Name 					
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- SPECTROMETRY) - 2016 - OSHA 1004 (2-Butanone (MEK) Hexone (MIBK)) - 2000 BMGV: 70 μmol butan-2-one/L in urine, post shift (BMGV) Other information: Citral					
- OSHA 1004 (2-Butanone (MEK) Hexone (MIBK)) - 2000 BMGV: 70 μmol butan-2-one/L in urine, post shift (BMGV) Other information: Citral Citral				INORGANIC GASES BY	Y EXTRACTIVE FTIR
BMGV: 70 µmol butan-2-one/L in urine, post shift (BMGV) Other information: Image: Chemical Name Citral					•
Chemical Name Citral	DMOV/ 70 second by the time of the				
	BIVIGV: 70 µmol butan-2-one/L	in urine, post shift		Other information:	
		Citral			
	OELV-8h: 5 ppm (IFV)		OELV-15min:		
Monitoring procedures:				Others' (
BLV: Other information:	BLV:			Other information:	

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Hydrocarbons, C7-C9, n	-alkanes, isoalkanes, cycli	cs				
Area of application	Exposure route / Environmental compartment	Effect on health	Descripto r	Value	Unit	Note
	Human - oral	Long term, systemic effects	DNEL	699	mg/kg bw/d	
Consumer	Human - dermal	Long term, systemic effects	DNEL	699	mg/kg bw/d	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	608	mg/m3	
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	

Area of application	Exposure route / Environmental compartment	Effect on health	Descripto r	Value	Unit	Note
	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	

Area of application	Exposure route / Environmental compartment	Effect on health	Descripto r	Value	Unit	Note
	Environment - freshwater		PNEC	14	µg/l	
	Environment - marine		PNEC	1,4	µg/l	
	Environment - sewage treatment plant		PNEC	1,8	mg/l	
	Environment - sediment, freshwater		PNEC	3,85	mg/kg dry weight	
	Environment - sediment, marine		PNEC	0,3851	mg/kg dry 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	3,4	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 - inhalation	Short term, local effects	DNEL	300	mg/m3	
Consumer	Human - inhalation	Long term, local 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	
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	DNEL	7	mg/kg bw/d	
Workers / employees	Human - dermal	Short term, systemic effects	DNEL	11	mg/kg bw/day	
Workers / employees	Human - inhalation	Short term, local effects	DNEL	600	mg/m3	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	300	mg/m3	

Acetone						
Area of application	Exposure route / Environmental compartment	Effect on health	Descripto r	Value	Unit	Note

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	Environment - marine		PNEC	1,06	mg/l	Assesmen t factor 500
	Environment - freshwater		PNEC	10,6	mg/l	Assesmen t 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	19,5	mg/l	
	Environment - sporadic (intermittent) release		PNEC	21	mg/l	Assesmen t factor 100
Consumer	Human - oral	Long term, systemic effects	DNEL	62	mg/kg bw/day	Overall assesment factor 2
Consumer	Human - dermal	Long term, systemic effects	DNEL	62	mg/kg bw/day	Overall assesment factor 20
Consumer	Human - inhalation	Long term, systemic effects	DNEL	200	mg/m3	Overall assesment 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	Expectite route /	Effect on health	Deserinte	Value	Unit	Note
Area of application	Exposure route / Environmental compartment	Effect on health	Descripto r	value	Unit	Note
	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 assesmen factor 2
Consumer	Human - inhalation	Long term	DNEL	106	mg/m3	Overall assesmen factor 2
Consumer	Human - oral	Long term	DNEL	31	mg/kg bw/day	Overall assesmer factor 2
Workers / employees	Human - dermal	Long term	DNEL	1161	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term	DNEL	600	mg/m3	

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Area of application	Exposure route / Environmental	Effect on health	Descripto r	Value	Unit	Note
	compartment					
	Environment - freshwater		PNEC	0,00678	mg/l	
	Environment - marine		PNEC	0,00067 8	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	

Inited 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 or 2019/1831/EU: (13) = The substance can cause sensitisation of the skin and of the respiratory tract (2004/37/CE), (14) = The substance can cause sensitisation of the skin (2004/37/CE).

Ireland/Éire | OELV-8h = Occupational Exposure Limit Value - 8-hour reference period (Chemical Agents and Carcinogens CoP (Code of Practice) 2021, 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). |

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| OELV-15min = Occupational Exposure Limit Value - 15-minute reference period (Chemical Agents and Carcinogens CoP (Code of Practice) 2021, 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) 2021, 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. Sk = can be absorbed through skin. Asphx = asphyxiant. Sen = Respiratory sensitizer. 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 or 2019/1831/EU: (13) = The substance can cause sensitisation of the skin and of the respiratory tract (2004/37/CE), (14) = The substance can cause sensitisation of the skin (2004/37/CE).

• 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 or 2019/1831/EU: (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).

8.2 Exposure controls

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 nonmetrological 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

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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
Colour:	Colourless
Odour:	Characteristic
Melting point/freezing point:	There is no information available on this parameter.
Boiling point or initial boiling point and boiling range:	There is no information available on this parameter.
Flammability:	There is no information available on this parameter.
Lower explosion limit:	There is no information available on this parameter.
Upper explosion limit:	There is no information available on this parameter.
Flash point:	-5 °C
Auto-ignition temperature:	There is no information available on this parameter.
Decomposition temperature:	There is no information available on this parameter.
pH:	Mixture is non-soluble (in water).
Kinematic viscosity:	<=20,5 mm2/s (40°C)
Solubility:	Insoluble

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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.

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.
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.

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Hydrocarbons, C7-C9, n-alka Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Aguta taxiaity, by darmal	LD50	>2800	ma/ka	Rabbit	OECD 402 (Acute	
Acute toxicity, by dermal	LD50	>2800	mg/kg	Rabbit		
route:					Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	>23,3	mg/l/4h	Rat	OECD 403 (Acute	Vapours
					Inhalation Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Not irritant
					Dermal	
					Irritation/Corrosion)	
					Initation/Conosion)	Demosteral
Skin corrosion/irritation:						Repeated
						exposure may
						cause skin
						dryness or
						cracking.
Serious eye				Rabbit	OECD 405 (Acute	Not irritant
damage/irritation:				1 Cab Dit	Eye	
damage/imation.						
B				- · ·	Irritation/Corrosion)	N 1 1 1 1 1 1 1 1 1 1
Respiratory or skin				Guinea pig	OECD 406 (Skin	Not sensitizisin
sensitisation:					Sensitisation)	
Germ cell mutagenicity:					OECD 473 (In Vitro	Negative
0,					Mammalian	5
					Chromosome	
					Aberration Test)	
<u> </u>		0000	/1			NL C
Germ cell mutagenicity:		2000	mg/kg	Mouse	OECD 474	Negative
					(Mammalian	
					Erythrocyte	
					Micronucleus Test)	
Germ cell mutagenicity:					OECD 471 (Bacterial	Negative
Contracting of the contracting o					Reverse Mutation	lioganio
					Test)	
Reproductive toxicity:					OECD 414 (Prenatal	Negative
					Developmental	
					Toxicity Study)	
Reproductive toxicity:	LOAEL	9000	ppm	Rat	OECD 416 (Two-	Negative
1					generation	U
					Reproduction Toxicity	
					Study)	
Specific target organ toxicity -					Olddy)	STOT SE 3,
single exposure (STOT-SE):						H336
Specific target organ toxicity -					OECD 413	Negative
repeated exposure (STOT-					(Subchronic Inhalation	
RE):					Toxicity - 90-Day	
,					Study)	
Aspiration hazard:					Oldayy	Yes
Symptoms:						drowsiness,
Symptoms.						
						unconsciousne
						S,
						heart/circulator
						disorders,
						headaches,
						cramps,
						drowsiness,
						mucous
						membrane
						irritation,
						dizziness,
						nausea and vomiting.

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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	
	LDOO	1070 0010	iiig/kg	- Tut	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
		0			Inhalation Toxicity)	. ap c ar c
Acute toxicity, by inhalation:	LC50	46600	mg/l/4h	Rat		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	Lyo mit. 2
damage/imation.					Irritation/Corrosion)	
Respiratory or skin				Guinea pig	OECD 406 (Skin	No (skin
sensitisation:				Guinea pig	Sensitisation)	contact)
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative
Gerni cell mulagenicity.						negative
				typhimurium	Reverse Mutation	
				Maria	Test)	Newst
Germ cell mutagenicity:				Mouse	OECD 474	Negative
					(Mammalian	
					Erythrocyte	
					Micronucleus Test)	
Germ cell mutagenicity:					OECD 476 (In Vitro	Negative
					Mammalian Cell Gene	
					Mutation Test)	
Carcinogenicity:						Negative
Specific target organ toxicity -						STOT SE 3,
single exposure (STOT-SE):						H336, May
						cause
						drowsiness or
						dizziness.
Specific target organ toxicity -						Target
repeated exposure (STOT-						organ(s): liver
RE):						UUUUUUUUUUUUU
Aspiration hazard:						No
Symptoms:						breathing
eyniptenie.						difficulties,
						unconsciousn
						s, vomiting,
						headaches,
						fatigue, dizziness,
						nausea, eyes,
						reddened,
Openifie towned a second town it		000		Det		watering eyes
Specific target organ toxicity -	NOAEL	900	mg/kg	Rat	OECD 408 (Repeated	
repeated exposure (STOT-					Dose 90-Day Oral	
RE), oral:					Toxicity Study in	
	NO				Rodents)	
Specific target organ toxicity -	NOAEL	5000	ppm	Rat		Vapours
	1	1	1	1		(OECD 451)
repeated exposure (STOT- RE), inhalat.:						

Endpoint	Value	Unit	Organism	Test method	Notes
LD50	> 2000	mg/kg	Rat	OECD 423 (Acute	Female
				Oral Toxicity - Acute	
				Toxic Class Method)	
					LD50 > 2000 mg/kg Rat OECD 423 (Acute Oral Toxicity - Acute

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Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute	
		5000		Date 11	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:				Wouse	Sensitisation - Local	OKIT OCTS. T
sensilisation.					Lymph Node Assay)	
				Marra		Newsters
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
Control indugoniony.					Mammalian	Chinese
					Chromosome	hamster
						namster
0 "				0.1	Aberration Test)	
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative
				typhimurium	Reverse Mutation	
					Test)	
Symptoms:						diarrhoea,
						rash, itching,
						gastrointestinal
						disturbances,
						mucous
						membrane
						irritation,
						nausea and
						vomiting.
Symptoma:						diarrhoea,
Symptoms:						
						rash, itching,
						gastrointestina
						disturbances,
						mucous
						membrane
						irritation,
						nausea and
						vomiting.
				1		vonnung.

n-butyl acetate	n-butyl acetate								
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)				
Acute toxicity, by dermal	LD50	>14112	mg/kg	Rabbit	OECD 402 (Acute				
route:					Dermal Toxicity)				
Acute toxicity, by inhalation:	LC50	>21,1	mg/l/4h	Rat	OECD 403 (Acute	Vapours			
					Inhalation Toxicity)				

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Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Not irritant,
					Dermal	Repeated
					Irritation/Corrosion)	exposure may
						cause skin
						dryness or
						cracking.
Serious eye				Rabbit	OECD 405 (Acute	Not irritant
damage/irritation:					Eye	
					Irritation/Corrosion)	
Respiratory or skin				Guinea pig	OECD 406 (Skin	No (skin
sensitisation:					Sensitisation)	contact)
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative
				typhimurium	Reverse Mutation	-
					Test)	
Reproductive toxicity:	NOAEC	9640	mg/m3		OECD 416 (Two-	Negative
					generation	
					Reproduction Toxicity	
					Study)	
Specific target organ toxicity -						Vapours may
single exposure (STOT-SE):						cause
3 - 1 ()						drowsiness and
						dizziness.
Specific target organ toxicity -						Negative
repeated exposure (STOT-						
RE):						
Symptoms:						drowsiness,
-)p						unconsciousnes
						s, headaches,
						drowsiness,
						mucous
						membrane
						irritation,
						dizziness,
						nausea and
<u> </u>	NOAFO	500				vomiting.
Specific target organ toxicity -	NOAEC	500	ppm	Rat		
repeated exposure (STOT-						
RE), inhalat.:						

Acetone						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	5800	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

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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
Specific target organ toxicity - single exposure (STOT-SE):						STOT SE 3, H336
Reproductive toxicity (Developmental toxicity):				Rat	OECD 414 (Prenatal Developmental Toxicity Study)	Negative
Symptoms:						unconsciousnes s, vomiting, headaches, gastrointestinal disturbances, fatigue, mucous membrane irritation, dizziness, nausea, drowsiness
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)	

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>2000	mg/kg	Rat	OECD 423 (Acute Oral Toxicity - Acute Toxic Class Method)	
Acute toxicity, by dermal route:	LD50	5000	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	34-34,5	mg/l/4h	Rat		
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	OEĆD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative
Germ cell mutagenicity:				Mouse	OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative

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Specific target organ toxicity - single exposure (STOT-SE):						STOT SE 3, H336, May cause drowsiness or dizziness.
Reproductive toxicity (Developmental toxicity):	NOAEC	1002	ppm	Rat	OECD 414 (Prenatal Developmental Toxicity Study)	Negative
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
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

Foxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	3450	mg/kg	Rat		
Acute toxicity, by dermal route:	LD50	2250	mg/kg	Rabbit		
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

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	1	
Symptoms:		respiratory
		distress,
		drowsiness,
		coughing,
		headaches,
		gastrointestinal
		disturbances,
		mucous
		membrane
		irritation,
		nausea

11.2. Information on other hazards

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).

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.

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Other information:			DOC-
			elimination
			degree(complex
			ing organic
			substance)>=
			80%/28d: n.a.
Other information:	AOX	%	According to
			the recipe,
			contains no
			AOX.

Hydrocarbons, C7-C9,							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	NOELR	28d	0,574	mg/kg	Oncorhynchus mykiss		
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(evapor ration)
12.4. Mobility in soil:							Product is slightly volatile.
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substanc
12.7. Other adverse effects:							Product floats on the water surface.
Toxicity to bacteria:	EL50	48h	11,14	mg/l			calculated valu

Propan-2-ol							
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		

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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
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		2,4	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	
						Test)	

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12.3. Bioaccumulative potential:	Log Kow	4,38	OECD 117 (Partition Coefficient (n- octanol/water) - HPLC method)	37 °C, pH = 7.2
12.4. Mobility in soil:				Adsorption in ground.
12.5. Results of PBT and vPvB assessment				No PBT substance, No vPvB substance
Other information:				Does not contain any organically bound halogens which can contribute to the AOX value in waste water.

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	18	mg/l	Pimephales promelas	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	EC50	48h	44	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	23	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproduction Test)	
12.1. Toxicity to algae:	EC50	72h	397	mg/l	Scenedesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	200	mg/l	Desmodesmus subspicatus		
12.2. Persistence and degradability:		28d	98	%		OECD 301 D (Ready Biodegradability - Closed Bottle Test)	Readily biodegradable
12.3. Bioaccumulative potential:	Log Pow		1,78 - 2,3				Low
12.3. Bioaccumulative potential:	BCF		15,3				
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Toxicity to bacteria:	EC10		959	mg/l	Pseudomonas putida		

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		

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12.1. Toxicity to fish:	LC50	96h	8300	mg/l	Lepomis macrochirus		
12.1. Toxicity to fish:	EC50	96h	8300	mg/l	Lepomis macrochirus		
12.1. Toxicity to daphnia:	NOEC/NOEL	28d	2212	mg/l	Daphnia pulex	OECD 211 (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		0,19			mothody	Low
12.4. Mobility in soil:							No adsorption in soil.
12.5. Results of PBT and vPvB assessment							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))	

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Toxicity to bacteria:	BOD/COD	16h	1700	mg/l	Pseudomonas putida	
Other organisms:	EC5	72h	28	mg/l	Entosiphon sulcatum	
Other information:	BOD5		1760- 1900	mg/g		
Other information:	AOX		0	%		
Other information:	COD		2070- 2100	mg/g		

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	2993	mg/l	Pimephales	OECD 203	
					promelas	(Fish, Acute	
						Toxicity Test)	
12.1. Toxicity to	EC50	48h	308	mg/l	Daphnia magna	OECD 202	
daphnia:						(Daphnia sp.	
						Acute	
						Immobilisation	
						Test)	
12.1. Toxicity to algae:	EC50	72h	1972	mg/l	Pseudokirchnerie	OECD 201	
				-	lla subcapitata	(Alga, Growth	
						Inhibition Test)	
12.1. Toxicity to algae:	EC50	96h	2029	mg/l	Pseudokirchnerie	OECD 201	
				-	lla subcapitata	(Alga, Growth	
						Inhibition Test)	
12.2. Persistence and		28d	98	%		OECD 301 D	Readily
degradability:						(Ready	biodegradable
						Biodegradability -	-
						Closed Bottle	
						Test)	
12.3. Bioaccumulative	Log Pow		0,29-0,3			OECD 117	Bioaccumulatio
potential:	-					(Partition	n is unlikely
-						Coefficient (n-	(LogPow < 1).
						octanol/water) -	
						HPLC method)	
12.4. Mobility in soil:	H (Henry)		0,00002				25°C
			44				
12.4. Mobility in soil:	Log Koc		3,8				
12.5. Results of PBT							No vPvB
and vPvB assessment							substance, No
							PBT substance
Toxicity to bacteria:	EC0	16h	1150	mg/l	Pseudomonas	DIN 38412 T.8	
					putida		
Other information:	DOC		>70	%			
Other information:	BOD/COD		>50	%			

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)	

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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	
12.2. Persistence and degradability:		28d	> 90	%		OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)	Readily 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)	Adsorption in ground.
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.

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For contaminated packing material

Pay attention to local and national official regulations. Empty container completely. Uncontaminated packaging can be recycled. 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:	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):	3						
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):	3						
14.4. Packing group:							
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, IS	SOPROPYL ALCOHOL)						
14.3. Transport hazard class(es):	3						
14.4. Packing group:	I						
14.5. Environmental hazards:	Not applicable						
14.6. Special precautions for user							
Persons employed in transporting dangerous goods must be train	ned.						
All persons involved in transporting must observe safety regulation							
Precautions must be taken to prevent damage.							
14.7. Maritime transport in bulk according to IM	D instruments						
Freighted as packaged goods rather than in bulk, therefore not a							
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)!

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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.

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.):

Hazard categories	Notes to Annex I	Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of - Lower-tier requirements	Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of - Upper-tier 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): 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:

2

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.

99,75 %

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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.
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 Article number Art., Art. no. 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 for example (abbreviation of Latin 'exempli gratia'), for instance e.q. EbCx, EyCx, EbLx (x = 10, 50) Effect Concentration/Level of x % on reduction of the biomass (algae, plants) European Community EC 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

GB (RL M Page 33 of 34 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 11.03.2024 / 0003 Replacing version dated / version: 15.11.2023 / 0002 Valid from: 11.03.2024 PDF print date: 15.03.2024 Fleckenwasser Art.: 36999 **ELINCS** European List of Notified Chemical Substances ΕN European Norms EPA United States Environmental Protection Agency (United States of America) Effect Concentration/Level of x % on inhibition of the growth rate (algae, plants) ErCx, $E\mu Cx$, ErLx (x = 10, 50) etc. et cetera EU **European Union** 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 octanol-water partition coefficient Kow IARC International Agency for Research on Cancer IATA International Air Transport Association International Bulk Chemical (Code) IBC (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) Logarithm of adsorption coefficient of organic carbon in the soil Log Koc 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 applicable n.av. not available n.c. not checked n.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 PF 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

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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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