

Page 1 of 33 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 30.09.2022 / 0019 Replacing version dated / version: 14.04.2022 / 0018 Valid from: 30.09.2022 PDF print date: 01.10.2022 Thick Film Lacquer 4-in-1 Pure white RAL 9010 L222 400 ml Art.: 6210 2412, Art.: 6214 2412

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

(GB)

Thick Film Lacquer 4-in-1 Pure white RAL 9010 L222 400 ml Art.: 6210 2412, Art.: 6214 2412

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

Uses advised against: No information available at present.

1.3 Details of the supplier of the safety data sheet

Theo Förch GmbH & Co. KG Theo-Förch-Str. 11 – 15 74196 Neuenstadt Tel.: 07139/95-0 Fax: 07139/95-199 Email: info@foerch.de Homepage: www.foerch.com

Details of the supplier of the safety data sheet see section 16 of this safety data sheet.

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:

Telephone number of the company in case of emergencies: +49 (0) 700 / 24 112 112 (TFC)

SECTION 2: Hazards identification

	of the substance or mix ording to Regulation (E	
Hazard class	Hazard category	Hazard statement
Eye Irrit.	2	H319-Causes serious eye irritation.
STOT SE	3	H336-May cause drowsiness or dizziness.
Aquatic Chronic	3	H412-Harmful to aquatic life with long lasting effects.
Aerosol	1	H222-Extremely flammable aerosol.
Aerosol	1	H229-Pressurised container: May burst if heated.

2.2 Label elements Labeling according to Regulation (EC) 1272/2008 (CLP)



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(GB)

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Danger

H319-Causes serious eye irritation. H336-May cause drowsiness or dizziness. H412-Harmful to aquatic life with long lasting effects. H222-Extremely flammable aerosol. H229-Pressurised container: May burst if heated.

P210-Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211-Do not spray on an open flame or other ignition source. P251-Do not pierce or burn, even after use. P261-Avoid breathing vapours or spray. P273-Avoid release to the environment. P280-Wear eye protection / face protection. P312-Call a POISON CENTRE / doctor if you feel unwell.

P410+P412-Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

EUH066-Repeated exposure may cause skin dryness or cracking. EUH211-Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

Without adequate ventilation, formation of explosive mixtures may be possible. n-butyl acetate Acetone

2-methoxy-1-methylethyl acetate

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 %). Dangerous vapours heavier than air.

SECTION 3: Composition/information on ingredients

3.1 Substances

n.a. 3.2 Mixtures

Acetone	Substance for which an EU exposure limit value applies.
Registration number (REACH)	01-2119471330-49-XXXX
Index	606-001-00-8
EINECS, ELINCS, NLP, REACH-IT List-No.	200-662-2
CAS	67-64-1
content %	20-30
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	EUH066
	Flam. Liq. 2, H225
	Eye Irrit. 2, H319
	STOT SE 3, H336
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Dimethyl ether	Substance for which an EU exposure limit value applies.
Registration number (REACH)	01-2119472128-37-XXXX
Index	603-019-00-8
EINECS, ELINCS, NLP, REACH-IT List-No.	204-065-8
CAS	115-10-6
content %	10-20
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Flam. Gas 1A, H220
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Flam. Gas 1A, H220



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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II	
Revision date / version: 30.09.2022 / 0019	
Replacing version dated / version: 14.04.2022 / 0018	
Valid from: 30.09.2022	
PDF print date: 01.10.2022	
Thick Film Lacquer 4-in-1 Pure white RAL 9010 L222	
400 ml Art.: 6210 2412, Art.: 6214 2412	
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 %	10-20
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	EUH066
	Flam. Lig. 3, H226
	STOT SE 3, H336
Reaction mass of ethylbenzene and xylene	Substance for which an EU exposure limit value applies.
Registration number (REACH)	01-2119488216-32-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	905-588-0
CAS	
content %	1-<10
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Flam. Liq. 3, H226
	Acute Tox. 4, H312
	Acute Tox. 4, H332
	Skin Irrit. 2, H315
	Eye Irrit. 2, H319
	STOT SE 3, H335
	STOT RE 2, H373 (organs of hearing)
	Asp. Tox. 1, H304
O weath and A weathed at had a set of a	Out stands for which an Ell sum same limit when somelies
2-methoxy-1-methylethyl acetate	Substance for which an EU exposure limit value applies.
Registration number (REACH)	
Registration number (REACH) Index	 607-195-00-7
Registration number (REACH)	 607-195-00-7 203-603-9
Registration number (REACH) Index	 607-195-00-7 203-603-9 108-65-6
Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No.	 607-195-00-7 203-603-9
Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content %	 607-195-00-7 203-603-9 108-65-6 1-<10
Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS	 607-195-00-7 203-603-9 108-65-6 1-<10 Flam. Liq. 3, H226
Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content %	 607-195-00-7 203-603-9 108-65-6 1-<10
Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % Classification according to Regulation (EC) 1272/2008 (CLP), M-factors Ethanol	 607-195-00-7 203-603-9 108-65-6 1-<10 Flam. Liq. 3, H226
Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	 607-195-00-7 203-603-9 108-65-6 1-<10 Flam. Liq. 3, H226
Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % Classification according to Regulation (EC) 1272/2008 (CLP), M-factors Ethanol	 607-195-00-7 203-603-9 108-65-6 1-<10 Flam. Liq. 3, H226
Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % Classification according to Regulation (EC) 1272/2008 (CLP), M-factors Ethanol Registration number (REACH) Index	 607-195-00-7 203-603-9 108-65-6 1-<10 Flam. Liq. 3, H226 STOT SE 3, H336
Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % Classification according to Regulation (EC) 1272/2008 (CLP), M-factors Ethanol Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No.	 607-195-00-7 203-603-9 108-65-6 1-<10 Flam. Liq. 3, H226 STOT SE 3, H336 603-002-00-5 200-578-6
Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % Classification according to Regulation (EC) 1272/2008 (CLP), M-factors Ethanol Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS	 607-195-00-7 203-603-9 108-65-6 1-<10 Flam. Liq. 3, H226 STOT SE 3, H336 603-002-00-5 200-578-6 64-17-5
Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % Classification according to Regulation (EC) 1272/2008 (CLP), M-factors Ethanol Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content %	 607-195-00-7 203-603-9 108-65-6 1-<10 Flam. Liq. 3, H226 STOT SE 3, H336 603-002-00-5 200-578-6 64-17-5 1-<5
Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % Classification according to Regulation (EC) 1272/2008 (CLP), M-factors Ethanol Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS	 607-195-00-7 203-603-9 108-65-6 1-<10 Flam. Liq. 3, H226 STOT SE 3, H336 603-002-00-5 200-578-6 64-17-5 1-<5 Flam. Liq. 2, H225
Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % Classification according to Regulation (EC) 1272/2008 (CLP), M-factors Ethanol Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % Classification according to Regulation (EC) 1272/2008 (CLP), M-factors Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	 607-195-00-7 203-603-9 108-65-6 1-<10 Flam. Liq. 3, H226 STOT SE 3, H336 603-002-00-5 200-578-6 64-17-5 1-<5 Flam. Liq. 2, H225 Eye Irrit. 2, H319
Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % Classification according to Regulation (EC) 1272/2008 (CLP), M-factors Ethanol Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content %	 607-195-00-7 203-603-9 108-65-6 1-<10 Flam. Liq. 3, H226 STOT SE 3, H336 603-002-00-5 200-578-6 64-17-5 1-<5 Flam. Liq. 2, H225
Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % Classification according to Regulation (EC) 1272/2008 (CLP), M-factors Ethanol Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % Classification according to Regulation (EC) 1272/2008 (CLP), M-factors Specific Concentration Limits and ATE	 607-195-00-7 203-603-9 108-65-6 1-<10 Flam. Liq. 3, H226 STOT SE 3, H336 603-002-00-5 200-578-6 64-17-5 1-<5 Flam. Liq. 2, H225 Eye Irrit. 2, H319
Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % Classification according to Regulation (EC) 1272/2008 (CLP), M-factors Ethanol Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % Classification according to Regulation (EC) 1272/2008 (CLP), M-factors Content % Classification according to Regulation (EC) 1272/2008 (CLP), M-factors Specific Concentration Limits and ATE Titanium dioxide (in powder form containing 1 % or more of particles	 607-195-00-7 203-603-9 108-65-6 1-<10 Flam. Liq. 3, H226 STOT SE 3, H336 603-002-00-5 200-578-6 64-17-5 1-<5 Flam. Liq. 2, H225 Eye Irrit. 2, H319
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Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % Classification according to Regulation (EC) 1272/2008 (CLP), M-factors Ethanol Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % Classification according to Regulation (EC) 1272/2008 (CLP), M-factors Content % Classification according to Regulation (EC) 1272/2008 (CLP), M-factors Specific Concentration Limits and ATE Titanium dioxide (in powder form containing 1 % or more of particles with aerodynamic diameter <= 10 µm) Registration number (REACH)	 607-195-00-7 203-603-9 108-65-6 1-<10 Flam. Liq. 3, H226 STOT SE 3, H336 603-002-00-5 200-578-6 64-17-5 1-<5 Flam. Liq. 2, H225 Eye Irrit. 2, H319 Eye Irrit. 2, H319: >=50 %
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Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % Classification according to Regulation (EC) 1272/2008 (CLP), M-factors Ethanol Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % Classification according to Regulation (EC) 1272/2008 (CLP), M-factors Content % Classification according to Regulation (EC) 1272/2008 (CLP), M-factors Specific Concentration Limits and ATE Titanium dioxide (in powder form containing 1 % or more of particles with aerodynamic diameter <= 10 µm) Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS	 607-195-00-7 203-603-9 108-65-6 1-<10 Flam. Liq. 3, H226 STOT SE 3, H336 603-002-00-5 200-578-6 64-17-5 1-<5 Flam. Liq. 2, H225 Eye Irrit. 2, H319 Eye Irrit. 2, H319: >=50 % 022-006-002 236-675-5 13463-67-7
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Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % Classification according to Regulation (EC) 1272/2008 (CLP), M-factors Ethanol Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % Classification according to Regulation (EC) 1272/2008 (CLP), M-factors Cassification according to Regulation (EC) 1272/2008 (CLP), M-factors Specific Concentration Limits and ATE Titanium dioxide (in powder form containing 1 % or more of particles with aerodynamic diameter <= 10 µm) Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % Classification according to Regulation (EC) 1272/2008 (CLP), M-factors Trizinc bis(orthophosphate)	 607-195-00-7 203-603-9 108-65-6 1-<10 Flam. Liq. 3, H226 STOT SE 3, H336 603-002-00-5 200-578-6 64-17-5 1-<5 Flam. Liq. 2, H225 Eye Irrit. 2, H319 Eye Irrit. 2, H319 Eye Irrit. 2, H319: >=50 % 022-006-002 236-675-5 13463-67-7 1-<5 Carc. 2, H351 (as inhalation)
Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % Classification according to Regulation (EC) 1272/2008 (CLP), M-factors Ethanol Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % Classification according to Regulation (EC) 1272/2008 (CLP), M-factors Content % Classification according to Regulation (EC) 1272/2008 (CLP), M-factors Specific Concentration Limits and ATE Titanium dioxide (in powder form containing 1 % or more of particles with aerodynamic diameter <= 10 µm) Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % Classification according to Regulation (EC) 1272/2008 (CLP), M-factors Trizinc bis(orthophosphate) Registration number (REACH) Registration according to Regulation (EC) 1272/2008 (CLP), M-factors	 607-195-00-7 203-603-9 108-65-6 1-<10 Flam. Liq. 3, H226 STOT SE 3, H336 603-002-00-5 200-578-6 64-17-5 1-<5 Flam. Liq. 2, H225 Eye Irrit. 2, H319 Eye Irrit. 2, H319: >=50 % 022-006-002 236-675-5 13463-67-7 1-<5 Carc. 2, H351 (as inhalation)
Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % Classification according to Regulation (EC) 1272/2008 (CLP), M-factors Ethanol Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % Classification according to Regulation (EC) 1272/2008 (CLP), M-factors Specific Concentration Limits and ATE Titanium dioxide (in powder form containing 1 % or more of particles with aerodynamic diameter <= 10 µm) Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % Classification according to Regulation (EC) 1272/2008 (CLP), M-factors Specific Concentration Limits and ATE Titanium dioxide (in powder form containing 1 % or more of particles with aerodynamic diameter <= 10 µm) Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % Classification according to Regulation (EC) 1272/2008 (CLP), M-factors Trizinc bis(orthophosphate) Registration number (REACH) <th> 607-195-00-7 203-603-9 108-65-6 1-<10 Flam. Liq. 3, H226 STOT SE 3, H336 603-002-00-5 200-578-6 64-17-5 1-<5 Flam. Liq. 2, H225 Eye Irrit. 2, H319 Eye Irrit. 2, H319: >=50 % 022-006-002 236-675-5 13463-67-7 1-<5 Carc. 2, H351 (as inhalation)</th>	 607-195-00-7 203-603-9 108-65-6 1-<10 Flam. Liq. 3, H226 STOT SE 3, H336 603-002-00-5 200-578-6 64-17-5 1-<5 Flam. Liq. 2, H225 Eye Irrit. 2, H319 Eye Irrit. 2, H319: >=50 % 022-006-002 236-675-5 13463-67-7 1-<5 Carc. 2, H351 (as inhalation)
Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % Classification according to Regulation (EC) 1272/2008 (CLP), M-factors Ethanol Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % Classification according to Regulation (EC) 1272/2008 (CLP), M-factors Content % Classification according to Regulation (EC) 1272/2008 (CLP), M-factors Specific Concentration Limits and ATE Titanium dioxide (in powder form containing 1 % or more of particles with aerodynamic diameter <= 10 µm) Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % Classification according to Regulation (EC) 1272/2008 (CLP), M-factors Trizinc bis(orthophosphate) Registration number (REACH) Registration according to Regulation (EC) 1272/2008 (CLP), M-factors	 607-195-00-7 203-603-9 108-65-6 1-<10 Flam. Liq. 3, H226 STOT SE 3, H336 603-002-00-5 200-578-6 64-17-5 1-<5 Flam. Liq. 2, H225 Eye Irrit. 2, H319 Eye Irrit. 2, H319: >=50 % 022-006-002 236-675-5 13463-67-7 1-<5 Carc. 2, H351 (as inhalation)

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Trizinc bis(orthophosphate)	
Registration number (REACH)	
Index	030-011-00-6
EINECS, ELINCS, NLP, REACH-IT List-No.	231-944-3
CAS	7779-90-0
content %	1-<2,5
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Aquatic Acute 1, H400 (M=1)
	Aquatic Chronic 1, H410 (M=1)
Alcohols, C12-14, ethoxylated	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	



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CAS	
content %	0,1-<1
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Eye Dam. 1, H318
	Aquatic Acute 1, H400 (M=1)

Impurities, test data and additional information may have been taken into account in classifying and labelling the product.

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.

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

(GB)

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

Wash thoroughly using copious water - remove contaminated clothing immediately. If skin irritation occurs (redness etc.), consult doctor.

Eye contact

Remove contact lenses.

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

Ingestion

Rinse the mouth thoroughly with water.

Give copious water to drink - consult doctor immediately.

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.

The following may occur: Irritation of the respiratory tract Headaches Dizziness Nausea Effects/damages the central nervous system Coordination disorders Unconsciousness With long-term contact: Product removes fat. Dermatitis (skin inflammation) In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours. **4.3 Indication of any immediate medical attention and special treatment needed**

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media Sand CO2 Extinction powder Unsuitable extinguishing media Water 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 Oxides of nitrogen Toxic gases Danger of bursting (explosion) when heated



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Explosive vapour/air or gas/air mixtures. **5.3 Advice for firefighters**

(GB)

For personal protective equipment see Section 8. In case of fire and/or explosion do not breathe fumes. Protective respirator with independent air supply. 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.

Remove possible causes of ignition - do not smoke.

Ensure sufficient supply of air.

Avoid inhalation, and contact with eyes or skin.

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 from entering drainage system.

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

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

6.3 Methods and material for containment and cleaning up

If spray or gas escapes, ensure ample fresh air is available. Active substance:

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth) and dispose of according to Section 13. Do not wash away with water or watery cleaning agents.

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.

Room ventilation also at ground level.

Keep away from sources of ignition - Do not smoke.

Take precautions against electrostatic charges.

Do not use on hot surfaces. Avoid inhalation of the vapours.

Avoid contact with eyes or skin.

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.

Observe special regulations for aerosols!

Observe special storage conditions.



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Do not store with flammable or self-igniting materials. Keep protected from direct sunlight and temperatures over 50°C. Store cool. Store in a well ventilated place. Store in a dry place.

7.3 Specific end use(s)

œ

No information available at present.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Chemical Name Acetone					
WEL-TWA: 500 ppm (1210 mg/m3) (WEL, EU)	WEL-STEL: 1500 ppm (3620 mg/m3) (WEL)				
Monitoring procedures:	Draeger - Acetone 100/b (CH 22 901)	1			
-	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 (acetor	e, 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)	0 1 37			
	MDHS 72 (Volatile organic compounds in air – Laboratory method using pumped solid				
-	sorbent tubes, thermal desorption and gas chromatography				
-	NIOSH 1300 (KETONES I) - 1994				
-	NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCRE	ENING)) - 1996			
-	NIOSH 2555 (KETONES I) - 2003				
	NIOSH 3800 (ORGANIC AND INORGANIC GASES BY EX	FRACTIVE FTIR			
-	SPECTROMETRY) - 2016				
-	OSHA 69 (Acetone) - 1988				
BMGV:	Other information:				
Chemical Name Dimethyl ether					
WEL-TWA: 400 ppm (766 mg/m3) (WEL), 1000 ppm	WEL-STEL: 500 ppm (958 mg/m3) (WEL)				
(1920 mg/m3) (EU)					
Monitoring procedures: -	Compur - KITA-123 S (549 129)				
BMGV:	Other information:				
Chemical Name n-butyl acetate					
WEL-TWA: 150 ppm (724 mg/m3) (WEL), 50 ppm	WEL-STEL: 200 ppm (966 mg/m3) (WEL), 150 ppm				
(241 mg/m3) (EU)	(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 1450 (ESTERS 1) - 2005 NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCRE				
-	OSHA 1009 (n-Butyl Acetate Isobutyl Acetate sec-Butyl Ace				
	2007	lale left-Buly Acelale) -			
BMGV:	Other information:				
	of ethylbenzene and xylene				
WEL-TWA: 220 mg/m3 (50 ppm) (WEL), 50 ppm	WEL-STEL: 100 ppm (441 mg/m3 (WEL), 100 ppm				
(221 mg/m3) (EU) (Xylene), 100 ppm (441mg/m3)	(442 mg/m3) (EU) (Xylene), 125 ppm (552 mg/m3)				
(WEL), 100 ppm (442 mg/m3) (EU) (Ethylbenzene)	(WEL), 200 ppm (884 mg/m3) (EU) (Ethylbenzene)				
Monitoring procedures:	INSHT MTA/MA-030/A92 (Determination of aromatic hydroc				
	ethylbenzene, p-xylene, 1,2,4-trimethylbenzene) in air - Cha	rcoal tube method / Gas			
-	chromatography) - 1992 - EU project BC/CEN/ENTR/000/20	02-16 card 47-1 (2004)			
-	OSHA 1002 (Xylenes (o-, m-, p-isomers) Ethylbenzene) - 19				
	INSHT MTA/MA-030/A92 (Determination of aromatic hydroc				
	ethylbenzene, p-xylene, 1,2,4-trimethylbenzene) in air - Cha				
-	chromatography) - 1992 - EU project BC/CEN/ENTR/000/20	02-16 card 54-1 (2004)			
-	OSHA 1020 (Trimethylbenzene (mixed isomers)) - 2016				
-	OSHA PV2091 (Trimethylbenzenes) - 1987				
-	Draeger - Hydrocarbons 0,1%/c (81 03 571)				
	Draeger - Hydrocarbons 2/a (81 03 581)				
BMGV: 650 mmol methyl hippuric acid/mol creatinin		(WEL) (Xylene), Sk (WEL)			
, p- or mixed isomers) (BMGV) (Xylene)	(Ethylbenzene)				
(B)					



- (GB)							
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Replacing version dated / version	ion: 14.04.2022 / 0018						
Valid from: 30.09.2022							
PDF print date: 01.10.2022							
Thick Film Lacquer 4-in-1 Pure							
400 ml Art.: 6210 2412, Art.: 62	214 2412						
Chemical Name	2-methoxy-1-me	thylethyl	acetate				
WEL-TWA: 50 ppm (274 mg/			L-STEL: 100 ppm (548 m	na/m3) (WEL).	100 ppm		
(275 mg/m3) (EU)) mg/m3) (EU)	.3			
Monitoring procedures:			MTA/MA-024/A92 (Detern	nination of este	ers II (1-met	hoxy-2-prop	yl acetate, 2-
			ethyl acetate) in air - Charo				
	-		BC/CEN/ENTR/000/2002-		2004)		
	-		I 2554 (GLYCOL ETHERS				
	-	OSHA	99 (Propylene Glycol Mon				
BMGV:				Other inform	mation: SI	(WEL)	
Chemical Name	Ethanol	1				1	
WEL-TWA: 1000 ppm (1920	0 /		L-STEL:				
Monitoring procedures:	-		er - Alcohol 25/a Ethanol (8				
	-		ur - KITA-104 SA (549 210)				
			D) (Loesungsmittelgemisch				ixtures) - 2013,
	-		EU project BC/CEN/ENTR leth. Nr. 2 (D) (Loesungsm				
	_		N/ENTR/000/2002-16 card		- 2013 - EU	project	
	-		leth. Nr. 3 (D) (Loesungsm		- 2013 - EU	project	
	-		N/ENTR/000/2002-16 card		2010-20	project	
BMGV:		20.01		Other inforr	mation:		
(B)	Titanium dioxide	(in now	der form containing 1 % or	more of particl	es with		
Chemical Name	aerodynamic dia				C3 WILLI		
WEL-TWA: 10 mg/m3 (total i			L-STEL:				
(respirable dust)	, -						
Monitoring procedures:							
BMGV:				Other inform	mation:	•	
Chemical Name	Butane						
WEL-TWA: 600 ppm (1450 n	ng/m3)		L-STEL: 750 ppm (1810				
Monitoring procedures:	-	Compu	ır - KITA-221 SA (549 459))			
	-	OSHA	PV2010 (n-Butane) - 1993				
BMGV:				Other inforr	mation:	•	
Chemical Name	Propane						
WEL-TWA: 1000 ppm (ACGI	H)	WE	L-STEL:				
Monitoring procedures:	-	Compu	ur - KITA-125 SA (549 954))		1	
	-	OSHA	PV2077 (Propane) - 1990				
BMGV:				Other inform	mation:		
Chemical Name	Isobutane						
WEL-TWA: 1000 ppm (EX) (A	ACGIH)		L-STEL:				
Monitoring procedures:	-	Compu	ır - KITA-113 SB(C) (549 3				
BMGV:				Other inform	mation:		
· ·							
Acetone	F		Effect on h 10	Dessi	Mal	11-11	Net
Area of application	Exposure route / Environmental		Effect on health	Descriptor	Value	Unit	Note
	compartment						

Area of application	Environmental compartment	Lifect on health	Descriptor	Value	onit	Note
	Environment - marine		PNEC	1,06	mg/l	Assesment factor 500
	Environment - freshwater		PNEC	10,6	mg/l	Assesment 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	Assesment factor 100
Consumer	Human - oral	Long term, systemic effects	DNEL	62	mg/kg bw/day	Overall assesment factor 2



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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	

Dimethyl ether												
Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note						
	Environmental											
	compartment											
	Environment - freshwater		PNEC	0,155	mg/l							
	Environment - sediment,		PNEC	0,681	mg/kg							
	freshwater											
	Environment - soil		PNEC	0,045	mg/kg							
	Environment - sewage		PNEC	160	mg/l							
	treatment plant				-							
	Environment - marine		PNEC	0,016	mg/l							
	Environment - water,		PNEC	1,549	mg/l							
	sporadic (intermittent)											
	release											
	Environment - sediment,		PNEC	0,069	mg/kg							
	marine											
Consumer	Human - inhalation	Long term, systemic effects	DNEL	471	mg/m3							
Workers / employees	Human - inhalation		DNEL	1894								
Workers / employees		Long term, systemic effects		1094	mg/m3							

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

B-



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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

Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note
	Environmental		-			
	compartment					
	Environment - freshwater		PNEC	0,327	mg/l	
	Environment - marine		PNEC	0,327	mg/l	
	Environment - sewage treatment plant		PNEC	6,58	mg/l	
	Environment - sediment, freshwater		PNEC	12,46	mg/kg dw	
	Environment - sediment, marine		PNEC	12,46	mg/kg dw	
	Environment - soil		PNEC	2,31	mg/kg dw	
Consumer	Human - oral	Long term, systemic effects	DNEL	12,5	mg/kg bw/d	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	65,3	mg/m3	
Consumer	Human - inhalation	Short term, systemic effects	DNEL	260	mg/m3	
Consumer	Human - inhalation	Long term, local effects	DNEL	65,3	mg/m3	
Consumer	Human - inhalation	Short term, local effects	DNEL	260	mg/m3	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	221	mg/m3	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	221	mg/m3	
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	442	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	212	mg/kg bw/d	

Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note
	Environmental					
	compartment					
	Environment - freshwater		PNEC	0,635	mg/l	
	Environment - marine		PNEC	0,0635	mg/l	
	Environment - sewage treatment plant		PNEC	100	mg/l	
	Environment - sediment, freshwater		PNEC	3,29	mg/kg dw	
	Environment - sediment, marine		PNEC	0,329	mg/kg dw	
	Environment - soil		PNEC	0,29	mg/kg dw	
	Environment - oral (animal feed)		PNEC	6,35	mg/l	
	Environment - water, sporadic (intermittent) release		PNEC	6,35	mg/l	
Consumer	Human - oral	Short term, systemic effects	DNEL	500	mg/kg bw/day	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	33	mg/m3	



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Consumer	Human - dermal	Long term, systemic effects	DNEL	320	mg/kg bw/day	
Consumer	Human - oral	Long term, systemic effects	DNEL	36	mg/kg bw/day	
Consumer	Human - inhalation	Long term, local effects	DNEL	33	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	796	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	275	mg/m3	
Workers / employees	Human - inhalation	Short term, local effects	DNEL	550	mg/m3	

Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	0,96	mg/l	
	Environment - marine		PNEC	0,79	mg/l	
	Environment - water, sporadic (intermittent) release		PNEC	2,75	mg/l	
	Environment - sewage treatment plant		PNEC	580	mg/l	
	Environment - sediment, freshwater		PNEC	3,6	mg/kg dry weight	
	Environment - soil		PNEC	0,63	mg/kg dry weight	
	Environment - oral (animal feed)		PNEC	0,38	g/kg feed	
	Environment - sediment, marine		PNEC	2,9	mg/kg dry weight	
Consumer	Human - dermal	Short term, local effects	DNEL	950	mg/m3	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	114	mg/m3	
Consumer	Human - oral	Long term, systemic effects	DNEL	87	mg/kg	
Consumer	Human - dermal	Long term, systemic effects	DNEL	206	mg/kg bw/d	
Consumer	Human - inhalation	Short term, local effects	DNEL	950	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	343	mg/kg bw/d	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	950	mg/m3	
Workers / employees	Human - inhalation	Short term, local effects	DNEL	1900	mg/m3	

Titanium dioxide (in pow	Titanium dioxide (in powder form containing 1 % or more of particles with aerodynamic diameter <= 10 μm)							
Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note		
	Environmental							
	compartment							
	Environment - freshwater		PNEC	0,184	mg/l			
	Environment - marine		PNEC	0,0184	mg/l			
	Environment - water,		PNEC	0,193	mg/l			
	sporadic (intermittent)				_			
	release							
	Environment - sewage		PNEC	100	mg/l			
	treatment plant							
	Environment - sediment,		PNEC	1000	mg/kg dw			
	freshwater							
	Environment - sediment,		PNEC	100	mg/kg dw			
	marine							
	Environment - soil		PNEC	100	mg/kg dw			



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(GB)

	Environment - oral (animal feed)		PNEC	1667	mg/kg feed
Consumer	Human - oral	Long term, systemic effects	DNEL	700	mg/kg bw/d
Workers / employees	Human - inhalation	Long term, local effects	DNEL	10	mg/m3

Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	20,6	µg/l	Zn
	Environment - marine		PNEC	6,1	µg/l	Zn
	Environment - sediment, freshwater		PNEC	117,8	mg/kg dry weight	Zn
	Environment - sediment, marine		PNEC	56,5	mg/kg dry weight	Zn
	Environment - soil		PNEC	35,6	mg/kg dw	Zn
	Environment - sewage treatment plant		PNEC	100	µg/l	Zn
Consumer	Human - dermal	Long term, systemic effects	DNEL	83	mg/kg bw/day	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	2,5	mg/kg bw/day	
Consumer	Human - oral	Long term, systemic effects	DNEL	0,83	mg/kg bw/day	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	83	mg/kg bw/day	Zn, soluble
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	5	mg/m3	Zn, insoluble

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).

(8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (11) = Inhalable fraction (Directive 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 (Directive 2004/37/CE). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period).

(8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU), 2017/2398/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. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.

** = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision. (13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 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 non-metrological investigative techniques.

These are specified by e.g. EN 14042.

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

8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

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

Eye/face protection: Tight fitting protective goggles with side protection (EN 166).



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Skin protection - Hand protection: Chemical resistant protective gloves (EN ISO 374). Protective gloves made of butyl (EN ISO 374). Minimum layer thickness in mm: 0,4 Permeation time (penetration time) in minutes:

40 Protective hand cream recommended.

The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions. The recommended maximum wearing time is 50% of breakthrough time.

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

Respiratory protection: Normally not necessary. If OES or MEL is exceeded. Gas mask filter AX (EN 14387), code colour brown. Observe wearing time limitations for respiratory protection equipment.

Thermal hazards: Not applicable

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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:	Aerosol. Active substance: liquid.
Colour:	According to specification
Odour:	Characteristic
Melting point/freezing point:	There is no information available on this parameter.
Boiling point or initial boiling point and boiling range:	n.a.
Flammability:	Does not apply to aerosols.
Lower explosion limit:	1.2 Vol-%
Upper explosion limit:	26,2 Vol-%
Flash point:	Does not apply to aerosols.
Auto-ignition temperature:	240 °C
Decomposition temperature:	There is no information available on this parameter.
pH:	Mixture is non-soluble (in water).
Kinematic viscosity:	Does not apply to aerosols.
Solubility:	Not miscible
Partition coefficient n-octanol/water (log value):	Does not apply to mixtures.
Vapour pressure:	4000 hPa (20°C)
Density and/or relative density:	0,8 g/cm3 (20°C)
Relative vapour density:	Does not apply to aerosols.
Particle characteristics:	Does not apply to aerosols.
9.2 Other information	
Explosives:	Product is not explosive. Possible build up of explosive/highly
	flammable vapour/air mixture.
Oxidising liquids:	No
Evaporation rate:	n.a.
Solvents content:	72,86 % (Organic solvents)

SECTION 10: Stability and reactivity



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10.1 Reactivity

Not to be expected 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

Heating, open flame, ignition sources Pressure increase will result in danger of bursting.

10.5 Incompatible materials

Avoid contact with strong oxidizing agents.

10.6 Hazardous decomposition products

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).

Thick Film Lacquer 4-in-1 Pure white RAL 9010 L222

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:						n.d.a.
Acute toxicity, by dermal route:						n.d.a.
Acute toxicity, by inhalation:						n.d.a.
Skin corrosion/irritation:						n.d.a.
Serious eye damage/irritation:						n.d.a.
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.

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
Germ cell mutagenicity:				Salmonella typhimurium	OECD 471 (Bacterial Reverse Mutation Test)	Negative



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Germ cell mutagenicity:				Mammalian	OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative
Reproductive toxicity (Developmental toxicity):				Rat	OECD 414 (Prenatal Developmental Toxicity	Negative
(Developmental toxicity).					Study)	
Symptoms:						unconsciousness , 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)	

Dimethyl ether						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by inhalation:	LC50	164	mg/l/4h	Rat		
Skin corrosion/irritation:						Not irritant
Serious eye damage/irritation:						Not irritant
Respiratory or skin						No (skin contact)
sensitisation:						
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative
Germ cell mutagenicity:					OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative
Germ cell mutagenicity:					OECD 477 (Genetic Toxicology - Sex-Linked Recessive Lethal Test in Drosophilia melanogaster)	Negative
Carcinogenicity:	NOAEC	47000	mg/m3	Rat	OECD 453 (Combined Chronic Toxicity/Carcinogenicity Studies)	Negative
Reproductive toxicity:	NOAEL	5000	ppm	Rat	OECD 414 (Prenatal Developmental Toxicity Study)	
Specific target organ toxicity - repeated exposure (STOT-RE):	NOAEC	47106	mg/kg	Rat	OECD 452 (Chronic Toxicity Studies)	Negative(2 a)
Aspiration hazard:						No
Symptoms:						unconsciousness , headaches, mucous membrane irritation, dizziness, nausea and vomiting., frostbite, gastrointestinal disturbances, respiratory distress, circulatory collapse



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n-butyl acetate Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	10760	mg/kg	Rat	OECD 423 (Acute Oral	Notes
Acute toxicity, by ordiroute.	LDOU	10700	ing/kg	T COL	Toxicity - Acute Toxic	
					Class Method)	
Aguto toxicity, by dormal route:	LD50	>14112		Rabbit	OECD 402 (Acute	
Acute toxicity, by dermal route:	LD50	214112	mg/kg	Rabbit		
	1.050	04.4		Det	Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	21,1	mg/l/4h	Rat	OECD 403 (Acute	Vapours
<u></u>					Inhalation Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Not irritant
					Dermal	
					Irritation/Corrosion)	
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye	Not irritant
					Irritation/Corrosion)	
Respiratory or skin				Guinea pig	OECD 406 (Skin	No (skin contact
sensitisation:					Sensitisation)	
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative
0,				typhimurium	Reverse Mutation Test)	5
Reproductive toxicity:	NOAEC	9640	mg/m3		OECD 416 (Two-	Negative
			J		generation	- 3
					Reproduction Toxicity	
					Study)	
Specific target organ toxicity -						Vapours may
single exposure (STOT-SE):						cause
						drowsiness and
						dizziness.
Specific target organ toxicity -						
repeated exposure (STOT-RE):						Negative
						-
Symptoms:						drowsiness,
						unconsciousnes
						, headaches,
						drowsiness,
						mucous
						membrane
						irritation,
						dizziness,
						nausea and
						vomiting.
Specific target organ toxicity -	NOAEC	500	ppm	Rat		
repeated exposure (STOT-RE),			P.P			
inhalat.:						
	1	1		1	1	1

Endpoint Toxicity / effect Value Unit Organism Test method Notes Acute toxicity, by oral route: LD50 3523-4000 mg/kg Rat Regulation (EC) 440/2008 B.1 (ÁCUTE ORAL TOXICITY) OECD 429 (Skin Respiratory or skin Mouse No (skin contact) sensitisation: Sensitisation - Local Lymph Node Assay) Symptoms: drowsiness, headaches, fatigue, dizziness, unconsciousness , nausea and vomiting. Irritation of the Specific target organ toxicity respiratory tract, STOT SE 3, single exposure (STOT-SE), inhalative: H335

2-methoxy-1-methylethyl acetate									
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes			
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute Oral				
					Toxicity)				



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Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	>23,5	mg/l/6h	Rat	OECD 403 (Acute Inhalation Toxicity)	Vapours
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritant
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Not irritant
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	No (skin contact
Germ cell mutagenicity:				Salmonella typhimurium	OECD 471 (Bacterial Reverse Mutation Test)	Negative
Germ cell mutagenicity:				Mammalian	OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	NegativeChinese hamster
Germ cell mutagenicity:				Rat	OECD 482 (Gen. Tox DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells In Vitro)	Negative
Carcinogenicity:	NOAEL	~ 3690	mg/m3	Rat		Analogous conclusionvapor
Reproductive toxicity:	NOAEL	300-1000	ppm	Rat	OECD 416 (Two- generation Reproduction Toxicity Study)	Analogous conclusionvapou
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAEL	>= 1000	mg/kg	Rat	OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Developm. Tox. Screening Test)	
Symptoms:						respiratory distress, drowsiness, unconsciousnes , vomiting, headaches, mucous membrane irritation, dizziness, nausea
Specific target organ toxicity - repeated exposure (STOT-RE), dermal:	NOAEL	>= 1000	mg/kg bw/d	Rabbit	OECD 410 (Repeated Dose Dermal Toxicity - 90-Day)	Analogous conclusion
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOEL	300	ppm	Rat	OECD 453 (Combined Chronic Toxicity/Carcinogenicity	Vapours, Analogous conclusion

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	10470	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	51-124,7	mg/l/4h	Rat	OECD 403 (Acute Inhalation Toxicity)	Vapours
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritant
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Eye Irrit. 2



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Respiratory or skin sensitisation:				Mouse	OECD 429 (Skin Sensitisation - Local	No (skin contact
					Lymph Node Assay)	
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative
				typhimurium	Reverse Mutation Test)	-
Germ cell mutagenicity:				Mouse	OECD 476 (In Vitro	Negative
					Mammalian Cell Gene	
					Mutation Test)	
Germ cell mutagenicity:					OECD 473 (In Vitro	Negative
					Mammalian	-
					Chromosome	
					Aberration Test)	
Germ cell mutagenicity:					OECD 475 (Mammalian	Negative
					Bone Marrow	-
					Chromosome	
					Aberration Test)	
Carcinogenicity:	NOAEL	>3000	mg/kg	Rat	OECD 451	24 mon
5 ,					(Carcinogenicity Studies)	
Reproductive toxicity:	NOAEL	5200	mg/kg	Rat	OECD 416 (Two-	
			bw/d		generation	
					Reproduction Toxicity	
					Study)	
Specific target organ toxicity -	NOAL	>20	mg/l	Rat	OECD 403 (Acute	Male
repeated exposure (STOT-RE):			-		Inhalation Toxicity)	
Specific target organ toxicity -	NOAEL	1730	mg/kg/d	Rat	OECD 408 (Repeated	Female
repeated exposure (STOT-RE):					Dose 90-Day Oral	
,					Toxicity Study in	
					Rodents)	
Symptoms:					,	respiratory
						distress.
						drowsiness.
						unconsciousnes
						, drop in blood
						pressure,
						vomiting,
						coughing,
						headaches,
						intoxication.
						drowsiness.
						mucous
						membrane
						irritation,
						dizziness,
						nausea

Titanium dioxide (in powder form containing 1 % or more of particles with aerodynamic diameter <= 10 μm)								
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes		
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 425 (Acute Oral			
					Toxicity - Up-and-Down			
					Procedure)			
Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rabbit				
Acute toxicity, by inhalation:	LD50	>6,8	mg/l/4h	Rat				
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Not irritant		
					Dermal			
					Irritation/Corrosion)			
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye	Not irritant,		
					Irritation/Corrosion)	Mechanical		
						irritation possible.		
Respiratory or skin				Mouse	OECD 429 (Skin	Not sensitizising		
sensitisation:					Sensitisation - Local			
					Lymph Node Assay)			
Respiratory or skin				Guinea pig	OECD 406 (Skin	No (skin contact)		
sensitisation:					Sensitisation)			
Germ cell mutagenicity:				Mouse	OECD 474 (Mammalian	Negative		
					Erythrocyte			
					Micronucleus Test)			



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Germ cell mutagenicity:				Mammalian	OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative
Germ cell mutagenicity:				Salmonella typhimurium	(Ames-Test)	Negative
Germ cell mutagenicity:					OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative
Reproductive toxicity (Developmental toxicity):				Rat	OECD 414 (Prenatal Developmental Toxicity Study)	No indications of such an effect.
Specific target organ toxicity - single exposure (STOT-SE):						Not irritant (respiratory tract).
Symptoms:						mucous membrane irritation, coughing, respiratory distress, drying of the skin.
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAEL	3500	mg/kg/d	Rat		90d
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAEC	10	mg/m3	Rat		90d

Trizinc bis(orthophosphate)	En de sint	Malua	11	0	Testmethed	Netes
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute Oral	
	-				Toxicity)	
Acute toxicity, by inhalation:	LC50	>5,7	mg/l/4h	Rat	OECD 403 (Acute	Analogous
					Inhalation Toxicity)	conclusion
Skin corrosion/irritation:						Not irritant
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Not irritant
Respiratory or skin				Guinea pig	OECD 406 (Skin	No (skin
sensitisation:					Sensitisation)	contact).
					,	Analogous
						conclusion
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative,
j-				typhimurium	Reverse Mutation Test)	Analogous
						conclusion
Germ cell mutagenicity:						Analogous
						conclusion,
						Negative
Carcinogenicity:						Analogous
0, 1						conclusion,
						Negative
Reproductive toxicity:						Analogous
						conclusion,
						Negative
Specific target organ toxicity -						Analogous
single exposure (STOT-SE):						conclusion, No
Specific target organ toxicity -						Analogous
repeated exposure (STOT-RE):						conclusion, No
Aspiration hazard:						n.a.



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Symptoms:			breathing difficulties, fever, headaches, stomach pain, dizziness, nausea and vomiting.
Specific target organ toxicity - single exposure (STOT-SE), inhalative:			Not irritant (respiratory tract)., Analogous conclusion

Butane							
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes	
Acute toxicity, by inhalation:	LC50	658	mg/l/4h	Rat			
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative	
				typhimurium	Reverse Mutation Test)		
Germ cell mutagenicity:					OECD 473 (In Vitro	Negative	
					Mammalian		
					Chromosome		
					Aberration Test)		
Germ cell mutagenicity:				Human being	OECD 473 (In Vitro	Negative	
					Mammalian		
					Chromosome		
					Aberration Test)		
Germ cell mutagenicity:				Rat	OECD 474 (Mammalian	Negative	
					Erythrocyte		
					Micronucleus Test)		
Aspiration hazard:						No	
Specific target organ toxicity -	NOAEC	21,394	mg/l	Rat	OECD 422 (Combined		
repeated exposure (STOT-RE),					Repeated Dose Tox.		
inhalat.:					Study with the		
					Reproduction/Developm.		
					Tox. Screening Test)		
Symptoms:						ataxia, breathing	
						difficulties,	
						drowsiness,	
						unconsciousnes	
						, frostbite,	
						disturbed heart	
						rhythm,	
						headaches,	
						cramps,	
						intoxication,	
						dizziness,	
						nausea and	
						vomiting.	

Propane						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by inhalation:	LC50	658	mg/l/4h	Rat		
Acute toxicity, by inhalation:	LC50	260000	ppmV/4h	Rat		Gasses, Male,
						Analogous
						conclusion
Skin corrosion/irritation:						Not irritant
Serious eye damage/irritation:						Not irritant
Germ cell mutagenicity:					OECD 473 (In Vitro	Negative
					Mammalian	
					Chromosome	
					Aberration Test)	
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative
1				typhimurium	Reverse Mutation Test)	_



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Reproductive toxicity (Developmental toxicity):	NOAEC	21,641	mg/l		OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Developm. Tox. Screening Test)	
Aspiration hazard:					.	No
Symptoms:						breathing difficulties, unconsciousness , frostbite, headaches, cramps, mucous membrane irritation, dizziness, nausea and vomiting.
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAEL	7,214	mg/l	Rat	OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Developm. Tox. Screening Test)	
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	LOAEL	21,641	mg/l	Rat	OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Developm. Tox. Screening Test)	

Isobutane						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by inhalation:	LC50	658	mg/l/4h	Rat		
Acute toxicity, by inhalation:	LC50	260000	ppmV/4h	Rat		Gasses, Male
Serious eye damage/irritation:				Rabbit		Not irritant
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative
				typhimurium	Reverse Mutation Test)	
Aspiration hazard:						No
Symptoms:						unconsciousness , frostbite, headaches, cramps, dizziness, nausea and vomiting.
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAEL	21,394	mg/l	Rat	OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Developm. Tox. Screening Test)	vonning.

11.2. Information on other hazards

Thick Film Lacquer 4-in-1 Pure white RAL 9010 L222 400 ml Art.: 6210 2412, Art.: 6214 2412											
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes					
Endocrine disrupting properties:	-					Does not apply					
						to mixtures.					
Other information:						No other					
						relevant					
						information					
						available on					
						adverse effects					
						on health.					
n-butyl acetate											
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes					



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Other information:			Repeated
			exposure may
			cause skin
			dryness or
			cracking.

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Other information:						Excessive
						alcohol
						consumption
						during
						pregnancy
						induces the
						foetus alcohol
						syndrome
						(reduced weigl
						at birth, physic
						and mental
						disorders).,
						There is no sig
						that this
						syndrome is al
						caused by
						dermal or
						inhalative
						absorption.,
						Experiences or
						-
						persons.

SECTION 12: Ecological information

e RAL 9010 L2: 12 Time	22 Value	Unit	Organism	Test method	Notes n.d.a. No information available on					
	Value	Unit	Organism	Test method	n.d.a. n.d.a. n.d.a. n.d.a. n.d.a. n.d.a. n.d.a. Does not apply to mixtures. No information					
	Value	Unit	Organism	Test method	n.d.a. n.d.a. n.d.a. n.d.a. n.d.a. n.d.a. n.d.a. Does not apply to mixtures. No information					
					n.d.a. n.d.a. n.d.a. n.d.a. n.d.a. n.d.a. n.d.a. Does not apply to mixtures. No information					
					n.d.a. n.d.a. n.d.a. n.d.a. n.d.a. Does not apply to mixtures. No information					
					n.d.a. n.d.a. n.d.a. n.d.a. Does not apply to mixtures. No information					
					n.d.a. n.d.a. n.d.a. Does not apply to mixtures. No information					
					n.d.a. n.d.a. Does not apply to mixtures. No information					
					n.d.a. n.d.a. Does not apply to mixtures. No information					
					n.d.a. Does not apply to mixtures. No information					
					n.d.a. Does not apply to mixtures. No information					
					Does not apply to mixtures. No information					
					to mixtures.					
					to mixtures.					
					No information					
					available on					
1					other adverse					
					effects on the					
					environment.					
					According to the					
					recipe, contains					
					no ÁOX.					
					DOC-elimination					
					degree(complexi					
					ng organic					
					substance)>=					
					80%/28d: n.a.					
1		1	I	I						
Acetone										
	Value	Unit	Organiem	Teet method	Notes					
	Time				Time Value Unit Organism Test method					



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Other organisms:	EC5	72h	28	mg/l	Entosiphon sulcatum		
12.1. Toxicity to fish:	EC50	96h	8300	mg/l	Lepomis macrochirus		
12.1. Toxicity to fish:	LC50	96h	8300	mg/l	Lepomis macrochirus		
12.1. Toxicity to fish:	LC50	96h	5540	mg/l	Oncorhynchus mykiss		
12.1. Toxicity to fish:	LC50	96h	7500	mg/l	Leuciscus idus		
12.1. Toxicity to 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 daphnia:	NOEC/NOEL	28d	2212	mg/l	Daphnia pulex	OECD 211 (Daphnia magna Reproduction Test)	
12.1. Toxicity to algae:	NOEC/NOEL	8d	530	mg/l		DIN 38412 T.9	Test organism: M. aeruginosa
12.1. Toxicity to algae:	EC50	48h	4740	mg/l	Pseudokirchneriell a subcapitata		<u> </u>
12.1. Toxicity to algae:	NOEC/NOEL	48h	3400	mg/l	Pseudokirchneriell a subcapitata		
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
12.2. Persistence and degradability:		30d	81-92	%		Regulation (EC) 440/2008 C.4-E (DETERMINATIO N OF 'READY' BIODEGRADABILI TY - CLOSED BOTTLE 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				Low
12.4. Mobility in soil:							No adsorption ir 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))	
Toxicity to bacteria:	BOD/COD	16h	1700	mg/l	Pseudomonas putida		
Other information:	BOD5		1760- 1900	mg/g	F		



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	Other information:	AOX	0	%		
	Other information:	COD	2070	mg/g		
1						

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC0	96h	2695	mg/l	Pimephales promelas		
12.1. Toxicity to fish:	LC50	96h	3082	mg/l	Salmo gairdneri		
12.1. Toxicity to fish:	LC50	96h	>4,1	mg/l	Poecilia reticulata		
12.1. Toxicity to daphnia:	EC50	48h	>4,4	mg/l	Daphnia magna		
12.1. Toxicity to algae:	EC50	96h	154,9	mg/l	Chlorella vulgaris		
12.2. Persistence and degradability:		28d	5	%		OECD 301 D (Ready Biodegradability - Closed Bottle Test)	Not readily biodegradable
12.3. Bioaccumulative potential:	Log Pow		-0,07				Bioaccumulation is unlikely (LogPow < 1). 25°C (pH 7)
12.4. Mobility in soil:	H (Henry)		518,6	Pa*m3/m ol			No adsorption in soil.
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Toxicity to bacteria:	EC10		>1600	mg/l	Pseudomonas putida		
Other information:							Does not contair any organically bound halogens which can contribute to the AOX value in waste water.DIN EN 1485
Water solubility:			45.60	mg/l			25°C

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.7. Other adverse							Product floats or
effects:							the water
							surface.
12.1. Toxicity to fish:	LC50	96h	18	mg/l	Pimephales	OECD 203 (Fish,	
					promelas	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: No	NOEC/NOEL	21d	23	mg/l	Daphnia magna	OECD 211	
						(Daphnia magna	
	5050					Reproduction Test)	
12.1. Toxicity to algae:	EC50	72h	397	mg/l	Scenedesmus	OECD 201 (Alga,	
					subspicatus	Growth Inhibition	
10.4 T : 11.1 I	NOFONOEL	701				Test)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	200	mg/l	Desmodesmus		
10.0 D : (0/	subspicatus		
12.2. Persistence and		28d	98	%		OECD 301 D	Readily
degradability:						(Ready	biodegradable
						Biodegradability -	
10.0.0			1 70 0 0			Closed Bottle Test)	
12.3. Bioaccumulative potential:	Log Pow		1,78-2,3				Low
12.3. Bioaccumulative potential:	BCF		15,3				



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12.5. Results of PBT and vPvB assessment					No PBT substance, No vPvB substance
Toxicity to bacteria:	EC10	959	mg/l	Pseudomonas putida	

Reaction mass of ethylb	enzene and xy	lene					
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.2. Persistence and		28d	90	%		OECD 301 F	Readily
degradability:						(Ready	biodegradable
						Biodegradability -	
						Manometric	
						Respirometry Test)	
12.3. Bioaccumulative	BCF		25,9				Low, Analogous
potential:							conclusion
12.1. Toxicity to fish:	LC50	96h	2,6	mg/l	Oncorhynchus	OECD 203 (Fish,	Analogous
					mykiss	Acute Toxicity	conclusion
						Test)	
12.1. Toxicity to daphnia:	IC50	24h	1	mg/l	Daphnia magna	OECD 202	Analogous
						(Daphnia sp.	conclusion
						Acute	
						Immobilisation	
						Test)	
12.1. Toxicity to algae:	EC50	72h	2,2	mg/l	Pseudokirchneriell	OECD 201 (Alga,	Analogous
					a subcapitata	Growth Inhibition	conclusion
						Test)	
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No
							vPvB substance

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Other information:							Does not contain any organically bound halogens which can contribute to the AOX value in waste water.
12.1. Toxicity to fish:	NOEC/NOEL	14d	47,5	mg/l	Oryzias latipes	OECD 204 (Fish, Prolonged Toxicity Test - 14-Day Study)	
12.1. Toxicity to fish:	LC50	96h	100-180	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	EC50	48h	>500	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	>100	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproduction Test)	
12.1. Toxicity to algae:	EC50	72h	>1000	mg/l	Selenastrum capricornutum	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		28d	83-90	%	activated sludge	OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)	Readily biodegradable



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12.3. Bioaccumulative potential:	Log Kow		1,2			OECD 117 (Partition Coefficient (n- octanol/water) - HPLC method)	A notable biological accumulation potential is not to be expected (LogPow 1-3).20 °C, pH 6.8
12.4. Mobility in soil:	Koc		1,7- 3,998				
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))	

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	13000	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to fish:	NOEC/NOEL	120h	250	mg/l	Brachydanio rerio	OECD 212 (Fish, Short- term Toxicity Test on Embryo and Sac- fry Stages)	
12.1. Toxicity to daphnia:	EC50	48h	5414	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to daphnia:	NOEC/NOEL	10d	9,6	mg/l	Ceriodaphnia spec.		References
12.1. Toxicity to algae:	EC50	72h	275	mg/l	Chlorella vulgaris	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		28d	97	%	activated sludge	OECD 301 B (Ready Biodegradability - Co2 Evolution Test)	Readily biodegradable
12.3. Bioaccumulative potential:	Log Pow		(-0,35) - (-0,32)				Bioaccumulatior is unlikely (LogPow < 1).
12.3. Bioaccumulative potential:	BCF		0,66 - 3,2				
12.4. Mobility in soil:	H (Henry)		0,00013 8				
12.4. Mobility in soil:	Koc		1,0				Highestimated
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Toxicity to bacteria:	IC50	3h	>1000	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	Analogous conclusion
Other organisms:	NOEC/NOEL		280	mg/l	Lemna gibba	OECD 201 (Alga, Growth Inhibition Test)	



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Other information:	COD	1,9	g/g		
Other information:	BOD5	1	g/g		

Titanium dioxide (in pow Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	>100	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity	
					IIIykiss	Test)	
12.1. Toxicity to daphnia:	LC50	48h	>100	mg/l	Daphnia magna	OEĆD 202	
						(Daphnia sp.	
						Acute Immobilisation	
						Test)	
12.1. Toxicity to algae:	EC50	72h	16	mg/l	Pseudokirchneriell	U.S. EPA-600/9-	
				Ū	a subcapitata	78-018	
12.2. Persistence and							Not relevant for
degradability:							inorganic
							substances.
12.3. Bioaccumulative	BCF	42d	9,6				Not to be
potential:	5.05		10.050		_		expected
12.3. Bioaccumulative	BCF	14d	19-352				Oncorhynchus
potential: 12.4. Mobility in soil:							mykiss Negative
12.4. Mobility in soli.							No PBT
and vPvB assessment							substance, No
							vPvB substance
Toxicity to bacteria:			>5000	mg/l	Escherichia coli		
Toxicity to bacteria:	LC0	24h	>10000	mg/l	Pseudomonas		
					fluorescens		
Toxicity to annelids:	NOEC/NOEL		>1000	mg/kg	Eisenia foetida		
Water solubility:							Insoluble20°C

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Water solubility:							Insoluble Wasserlöslichkeit <0,1% (DIN ISO 787, Teil 3) bzw. 0,025 g Zn/l (67/548/EWG, Anh. V, C)
12.1. Toxicity to fish:	LC50	96h	0,09	mg/l	Oncorhynchus mykiss		
12.1. Toxicity to fish:	LC50	96h	0,177	mg/l	Oncorhynchus mykiss	U.S. EPA ECOTOX Database	
12.1. Toxicity to daphnia:	EC50	48h	28,2	mg/l	Daphnia magna		
12.1. Toxicity to algae:	ErC50	72h	11	mg/l	Desmodesmus subspicatus		
12.1. Toxicity to algae:	EC50	72h	0,136- 0,15	mg/l	Selenastrum capricornutum		Analogous conclusion
12.5. Results of PBT and vPvB assessment							Not relevant for inorganic substances.
Toxicity to bacteria:	NOEC/NOEL	4h	0,1	mg/l	activated sludge		Analogous conclusion

Butane							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	24,11	mg/l		QSAR	
12.1. Toxicity to daphnia:	LC50	48h	14,22	mg/l		QSAR	



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(GB)

12.3. Bioaccumulative potential:	Log Pow	2,98	A notable biological accumulation potential is not to be expected (LogPow 1-3).
12.4. Mobility in soil:			Not to be expected
12.5. Results of PBT and vPvB assessment			No PBT substance, No vPvB substance

Propane							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.3. Bioaccumulative potential:	Log Pow		2,28				A notable biological accumulation potential is not to be expected (LogPow 1-3).
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance

Isobutane							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.3. Bioaccumulative							A notable
potential:							biological
							accumulation
							potential is not to
							be expected (LogPow 1-3).
12.1. Toxicity to fish:	LC50	96h	27.98	mg/l			
12.1. Toxicity to algae:	EC50	96h	7,71	mg/l			
12.2. Persistence and	2000	0011	,,,,,	iiig/i			Readily
degradability:							biodegradable
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No
							vPvB substance

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)

08 01 11 waste paint and varnish containing organic solvents or other hazardous substances

16 05 04 gases in pressure containers (including halons) containing hazardous substances Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

Take full aerosol cans to problem waste collection.

Take emptied aerosol cans to valuable material collection.

For contaminated packing material

Pay attention to local and national official regulations.

15 01 04 metallic packaging

Recycling

Do not perforate, cut up or weld uncleaned container.

SECTION 14: Transport information



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400 IIII AIL. 6210 2412, AIL. 6214 2412		
General statements 14.1. UN number or ID number:	1950	
Transport by road/by rail (ADR/RID)		
14.2. UN proper shipping name:		•
UN 1950 AEROSOLS		<u> </u>
14.3. Transport hazard class(es): 14.4. Packing group:	2.1	
Classification code:	- 5F	
LQ:	1L	
14.5. Environmental hazards:	Not applicable	
Tunnel restriction code:	D	
Transport by sea (IMDG-code)		
14.2. UN proper shipping name: AEROSOLS		
14.3. Transport hazard class(es):	2.1	
14.4. Packing group:	-	•
EmS:	F-D, S-U	
Marine Pollutant:	n.a	
14.5. Environmental hazards:	Not applicable	
Transport by air (IATA)		
14.2. UN proper shipping name: Aerosols, flammable		
14.3. Transport hazard class(es):	2.1	
14.4. Packing group:	-	•
14.5. Environmental hazards:	Not applicable	
14.6. Special precautions for user		
Persons employed in transporting dangerous goods must		
All persons involved in transporting must observe safety re	egulations.	
Precautions must be taken to prevent damage.	an ta IMO inatrumanta	
14.7. Maritime transport in bulk accordin Freighted as packaged goods rather than in bulk, therefore		
Minimum amount regulations have not been taken into acc		
Danger code and packing code on request.	Source.	
Comply with special provisions.		

SECTION 15: Regulatory information

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

Observe restrictions:

<u></u>

Comply with national regulations/laws governing the protection of young people at work (national implementation of the Directive 94/33/EC)! This product is regulated by Regulation (EU) 2019/1148. All suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point.

For exceptions see Regulation (EU) 2019/1148 and guidelines for the implementation of Regulation (EU) 2019/1148.

Comply with national regulations/laws governing maternity protection (national implementation of the Directive 92/85/EEC)! Comply with trade association/occupational health regulations.

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	Qualifying quantity (tonnes) of
		dangerous substances as	dangerous substances as
		referred to in Article 3(10) for the	referred to in Article 3(10) for the
		application of - Lower-tier	application of - Upper-tier
		requirements	requirements
P3a	11.1	150 (netto)	500 (netto)

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 2012/18/EU ("Seveso III"), Annex I, Part 2 - This product contains the substances listed below:



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Entry Nr	Dangerous substances	Notes to Annex I	Qualifying quantity (tonnes) for the	Qualifying quantity (tonnes) for the
			application of - Lower-tier	application of - Upper-tier
			requirements	requirements
18	Liquefied flammable	19	50	200
	gases, Category 1 or 2			
	(including LPG) and			
	natural gas			

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):

72,86 %

Observe incident regulations.

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

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Revised sections:

(GB)

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
Eye Irrit. 2, H319	Classification according to calculation procedure.
STOT SE 3, H336	Classification according to calculation procedure.
Aquatic Chronic 3, H412	Classification according to calculation procedure.
Aerosol 1, H222	Classification according to calculation procedure.
Aerosol 1, H229	Classification based on the form or physical state.

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H351 Suspected of causing cancer by inhalation.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

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

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

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H220 Extremely flammable gas.

EUH066 Repeated exposure may cause skin dryness or cracking.

Eye Irrit. — Eye irritation STOT SE — Specific target organ toxicity - single exposure - narcotic effects Aquatic Chronic - Hazardous to the aquatic environment - chronic Aerosol — Aerosols Flam. Liq. — Flammable liquid Flam. Gas — Flammable gases - Flammable gas



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Acute Tox. — Acute toxicity - dermal Acute Tox. — Acute toxicity - inhalation Skin Irrit. — Skin irritation STOT SE — Specific target organ toxicity - single exposure - respiratory tract irritation STOT RE — Specific target organ toxicity - repeated exposure Asp. Tox. — Aspiration hazard Carc. — Carcinogenicity Aquatic Acute — Hazardous to the aquatic environment - acute Eye Dam. — Serious eye damage

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.

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Any abbreviations and acronyms used in this document:

acc., acc. to according, according to
ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)
AOX Adsorbable organic halogen compounds
approx. approximately
Art., Art. no. Article number
ASTM ASTM International (American Society for Testing and Materials)
ATE Acute Toxicity Estimate
BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)
BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)



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 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

 wwt
 wet weight

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

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