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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 Jet black RAL 9005 L222

400 ml Art.: 6210 2410, Art.: 6214 2410

# 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

Thick Film Lacquer 4-in-1 Jet black RAL 9005 L222 400 ml Art.: 6210 2410, Art.: 6214 2410

# 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

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:

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

+49 (0) 700 / 24 112 112 (TFC)

#### **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
	•	11040 0

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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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

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

n-butyl acetate	Substance for which an EU exposure limit value applies.



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400 ml Art.: 6210 2410, Art.: 6214 2410

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. Liq. 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

2-methoxy-1-methylethyl acetate	Substance for which an EU exposure limit value applies.
Registration number (REACH)	
Index	607-195-00-7
EINECS, ELINCS, NLP, REACH-IT List-No.	203-603-9
CAS	108-65-6
content %	1-<10
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	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 %

Titanium dioxide (in powder form containing 1 % or more of particles	
with aerodynamic diameter <= 10 μm)	
Registration number (REACH)	
Index	022-006-002
EINECS, ELINCS, NLP, REACH-IT List-No.	236-675-5
CAS	13463-67-7
content %	1-<5
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Carc. 2, H351 (as inhalation)

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)
	Aguatic Chronic 1, H410 (M=1)

Alcohols, C12-14, ethoxylated	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	



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400 ml Art.: 6210 2410, Art.: 6214 2410

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

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.

#### **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.

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

CO<sub>2</sub>

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** 

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)

No information available at present.

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

#### 8.1 Control parameters

B Chemical Name	Acetone		
WEL-TWA: 500 ppm (1210 mg/m)		WEL-STEL: 1500 ppm (3620 mg/m3) (WEL)	
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 (aceton	e, methyl ethyl ketone,
		methyl isobutyl ketone) in air - Charcoal tube method / Gas of	chromatography) - 1996 -
	-	EU project BC/CEN/ENTR/000/2002-16 card 67-1 (2004)	
		MDHS 72 (Volatile organic compounds in air - Laboratory m	ethod using pumped solid
	-	sorbent tubes, thermal desorption and gas chromatography)	- 1993
	-	NIOSH 1300 (KETONES I) - 1994	
	-	NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREE	ENING)) - 1996
	-	NIOSH 2555 (KETONES I) - 2003	
		NIOSH 3800 (ORGANIC AND INORGANIC GASES BY EXT	RACTIVE 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 2549 (VOLATILE ORGANIC COMPOUNDS (SCREE	
		OSHA 1009 (n-Butyl Acetate Isobutyl Acetate sec-Butyl Acet	tate tert-Butyl Acetate) -
DMO.	<del>-</del>	2007	
BMGV:		Other information:	
Chemical Name		ethylbenzene and xylene	
NA/EL TIA/A . 000 / 0/50 `	(WFL) 50 ppm	WEL-STEL: 100 ppm (441 mg/m3 (WEL), 100 ppm	
vv⊑L-1 vvA: 220 mg/m3 (50 ppm)	(**EE), 00 pp		
(221 mg/m3) (EU) (Xylene), 100 pp	pm (441mg/m3)	(442 mg/m3) (EU) (Xylene), 125 ppm (552 mg/m3)	
(221 mg/m3) (EU) (Xylene), 100 pl (WEL), 100 ppm (442 mg/m3) (EU)	pm (441mg/m3)	(442 mg/m3) (EU) (Xylene), 125 ppm (552 mg/m3) (WEL), 200 ppm (884 mg/m3) (EU) (Ethylbenzene)	
WEL-TWA: 220 mg/m3 (50 ppm) (221 mg/m3) (EU) (Xylene), 100 pp (WEL), 100 ppm (442 mg/m3) (EU) Monitoring procedures:	pm (441mg/m3)	(442 mg/m3) (EU) (Xylene), 125 ppm (552 mg/m3) (WEL), 200 ppm (884 mg/m3) (EU) (Ethylbenzene) INSHT MTA/MA-030/A92 (Determination of aromatic hydroc	
(221 mg/m3) (EU) (Xylene), 100 pl (WEL), 100 ppm (442 mg/m3) (EU)	pm (441mg/m3)	(442 mg/m3) (EU) (Xylene), 125 ppm (552 mg/m3) (WEL), 200 ppm (884 mg/m3) (EU) (Ethylbenzene) INSHT MTA/MA-030/A92 (Determination of aromatic hydrocethylbenzene, p-xylene, 1,2,4-trimethylbenzene) in air - Cha	rcoal tube method / Gas
(221 mg/m3) (EU) (Xylene), 100 pl (WEL), 100 ppm (442 mg/m3) (EU)	pm (441mg/m3)	(442 mg/m3) (EU) (Xylene), 125 ppm (552 mg/m3) (WEL), 200 ppm (884 mg/m3) (EU) (Ethylbenzene)  INSHT MTA/MA-030/A92 (Determination of aromatic hydrocethylbenzene, p-xylene, 1,2,4-trimethylbenzene) in air - Chachromatography) - 1992 - EU project BC/CEN/ENTR/000/20	rcoal tube method / Gas 02-16 card 47-1 (2004)
(221 mg/m3) (EU) (Xylene), 100 pl (WEL), 100 ppm (442 mg/m3) (EU)	pm (441mg/m3)	(442 mg/m3) (EU) (Xylene), 125 ppm (552 mg/m3) (WEL), 200 ppm (884 mg/m3) (EU) (Ethylbenzene)  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 OSHA 1002 (Xylenes (o-, m-, p-isomers) Ethylbenzene) - 19	rcoal tube method / Gas 02-16 card 47-1 (2004) 99
(221 mg/m3) (EU) (Xylene), 100 pl (WEL), 100 ppm (442 mg/m3) (EU)	pm (441mg/m3)	(442 mg/m3) (EU) (Xylene), 125 ppm (552 mg/m3) (WEL), 200 ppm (884 mg/m3) (EU) (Ethylbenzene)  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 OSHA 1002 (Xylenes (o-, m-, p-isomers) Ethylbenzene) - 19 INSHT MTA/MA-030/A92 (Determination of aromatic hydroc	rcoal tube method / Gas 02-16 card 47-1 (2004) 99 arbons (benzene, toluene,
(221 mg/m3) (EU) (Xylene), 100 pl (WEL), 100 ppm (442 mg/m3) (EU)	pm (441mg/m3)	(442 mg/m3) (EU) (Xylene), 125 ppm (552 mg/m3) (WEL), 200 ppm (884 mg/m3) (EU) (Ethylbenzene)  INSHT MTA/MA-030/A92 (Determination of aromatic hydrocethylbenzene, p-xylene, 1,2,4-trimethylbenzene) in air - Chachromatography) - 1992 - EU project BC/CEN/ENTR/000/20 OSHA 1002 (Xylenes (o-, m-, p-isomers) Ethylbenzene) - 19 INSHT MTA/MA-030/A92 (Determination of aromatic hydrocethylbenzene, p-xylene, 1,2,4-trimethylbenzene) in air - Cha	rcoal tube method / Gas 02-16 card 47-1 (2004) 99 arbons (benzene, toluene, rcoal tube method / Gas
(221 mg/m3) (EU) (Xylene), 100 pl (WEL), 100 ppm (442 mg/m3) (EU)	pm (441mg/m3)	(442 mg/m3) (EU) (Xylene), 125 ppm (552 mg/m3) (WEL), 200 ppm (884 mg/m3) (EU) (Ethylbenzene)  INSHT MTA/MA-030/A92 (Determination of aromatic hydrocethylbenzene, p-xylene, 1,2,4-trimethylbenzene) in air - Chachromatography) - 1992 - EU project BC/CEN/ENTR/000/20 OSHA 1002 (Xylenes (o-, m-, p-isomers) Ethylbenzene) - 19 INSHT MTA/MA-030/A92 (Determination of aromatic hydrocethylbenzene, p-xylene, 1,2,4-trimethylbenzene) in air - Chachromatography) - 1992 - EU project BC/CEN/ENTR/000/20	rcoal tube method / Gas 02-16 card 47-1 (2004) 99 arbons (benzene, toluene, rcoal tube method / Gas
(221 mg/m3) (EU) (Xylene), 100 pl (WEL), 100 ppm (442 mg/m3) (EU)	pm (441mg/m3)	(442 mg/m3) (EU) (Xylene), 125 ppm (552 mg/m3) (WEL), 200 ppm (884 mg/m3) (EU) (Ethylbenzene)  INSHT MTA/MA-030/A92 (Determination of aromatic hydrocethylbenzene, p-xylene, 1,2,4-trimethylbenzene) in air - Chachromatography) - 1992 - EU project BC/CEN/ENTR/000/20 OSHA 1002 (Xylenes (o-, m-, p-isomers) Ethylbenzene) - 19 INSHT MTA/MA-030/A92 (Determination of aromatic hydrocethylbenzene, p-xylene, 1,2,4-trimethylbenzene) in air - Chachromatography) - 1992 - EU project BC/CEN/ENTR/000/20 OSHA 1020 (Trimethylbenzene (mixed isomers)) - 2016	rcoal tube method / Gas 02-16 card 47-1 (2004) 99 arbons (benzene, toluene, rcoal tube method / Gas
(221 mg/m3) (EU) (Xylene), 100 pl (WEL), 100 ppm (442 mg/m3) (EU)	pm (441mg/m3)	(442 mg/m3) (EU) (Xylene), 125 ppm (552 mg/m3) (WEL), 200 ppm (884 mg/m3) (EU) (Ethylbenzene)  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 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 OSHA 1020 (Trimethylbenzene (mixed isomers)) - 2016 OSHA PV2091 (Trimethylbenzenes) - 1987	rcoal tube method / Gas 02-16 card 47-1 (2004) 99 arbons (benzene, toluene, rcoal tube method / Gas
(221 mg/m3) (EU) (Xylene), 100 pl (WEL), 100 ppm (442 mg/m3) (EU)	pm (441mg/m3)	(442 mg/m3) (EU) (Xylene), 125 ppm (552 mg/m3) (WEL), 200 ppm (884 mg/m3) (EU) (Ethylbenzene)  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 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 OSHA 1020 (Trimethylbenzene (mixed isomers)) - 2016 OSHA PV2091 (Trimethylbenzenes) - 1987 Draeger - Hydrocarbons 0,1%/c (81 03 571)	rcoal tube method / Gas 02-16 card 47-1 (2004) 99 arbons (benzene, toluene, rcoal tube method / Gas
(221 mg/m3) (EU) (Xylene), 100 pp (WEL), 100 ppm (442 mg/m3) (EU) Monitoring procedures:	pm (441mg/m3) (Ethylbenzene)	(442 mg/m3) (EU) (Xylene), 125 ppm (552 mg/m3) (WEL), 200 ppm (884 mg/m3) (EU) (Ethylbenzene)  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 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 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)	rcoal tube method / Gas 02-16 card 47-1 (2004) 99 arbons (benzene, toluene, rcoal tube method / Gas 02-16 card 54-1 (2004)
(221 mg/m3) (EU) (Xylene), 100 pj (WEL), 100 ppm (442 mg/m3) (EU)	pm (441mg/m3) (Ethylbenzene)  acid/mol creatinine	(442 mg/m3) (EU) (Xylene), 125 ppm (552 mg/m3) (WEL), 200 ppm (884 mg/m3) (EU) (Ethylbenzene)  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 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 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)	rcoal tube method / Gas 02-16 card 47-1 (2004) 99 arbons (benzene, toluene, rcoal tube method / Gas



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Chemical Name	2-methoxy-1-meth	vlethyl acetate	
WEL-TWA: 50 ppm (274 mg/m3) (		WEL-STEL: 100 ppm (548 mg/m3) (WEL), 100 ppm	
(275 mg/m3) (EU)	,, oo pp	(550 mg/m3) (EU)	
Monitoring procedures:		INSHT MTA/MA-024/A92 (Determination of esters II (1-metr	noxy-2-propyl acetate 2-
Monitoring procedures.		ethoxyethyl acetate) in air - Charcoal tube method / Gas chr	
		project BC/CEN/ENTR/000/2002-16 card 15-1 (2004)	omatography) 1002 E0
		NIOSH 2554 (GLYCOL ETHERS) - 2003	
		OSHA 99 (Propylene Glycol Monomethyl Ethers/Acetates) -	1003
BMGV:		Other information: Sk	
		Other information.	(VVLL)
Chemical Name	Ethanol		
WEL-TWA: 1000 ppm (1920 mg/m		WEL-STEL:	
Monitoring procedures:	-	Draeger - Alcohol 25/a Ethanol (81 01 631)	
		Compur - KITA-104 SA (549 210)	
		DFG (D) (Loesungsmittelgemische), Methode Nr. 6 DFG (E)	(Solvent mixtures) - 2013,
		2002 - EU project BC/CEN/ENTR/000/2002-16 card 63-2 (2)	
		DFG Meth. Nr. 2 (D) (Loesungsmittelgemische) - 2013 - EU	project
		BC/CEN/ENTR/000/2002-16 card 63-2 (2004)	
		DFG Meth. Nr. 3 (D) (Loesungsmittelgemische) - 2013 - EU	project
		BC/CEN/ENTR/000/2002-16 card 63-2 (2004)	, .,
BMGV:		Other information:	
©B Chemical Name		in powder form containing 1 % or more of particles with	
Chemical Name	aerodynamic diam	neter <= 10 µm)	
WEL-TWA: 10 mg/m3 (total inhalal	aerodynamic diam		
WEL-TWA: 10 mg/m3 (total inhalal (respirable dust)	aerodynamic diam	neter <= 10 µm)	
WEL-TWA: 10 mg/m3 (total inhalal (respirable dust) Monitoring procedures:	aerodynamic diam ole dust), 4 mg/m3	neter <= 10 µm) WEL-STEL:	
WEL-TWA: 10 mg/m3 (total inhalal (respirable dust)	aerodynamic diam ole dust), 4 mg/m3	neter <= 10 µm) WEL-STEL:	
WEL-TWA: 10 mg/m3 (total inhalal (respirable dust) Monitoring procedures: BMGV:	aerodynamic diam ole dust), 4 mg/m3	neter <= 10 µm) WEL-STEL:	
WEL-TWA: 10 mg/m3 (total inhalal (respirable dust) Monitoring procedures: BMGV:	aerodynamic diam ole dust), 4 mg/m3 Butane	neter <= 10 µm)  WEL-STEL:  Other information:	
WEL-TWA: 10 mg/m3 (total inhalal (respirable dust) Monitoring procedures: BMGV:  BMGV:  Chemical Name WEL-TWA: 600 ppm (1450 mg/m3)	aerodynamic diam ole dust), 4 mg/m3 Butane	neter <= 10 μm)  WEL-STEL:  Other information:  WEL-STEL: 750 ppm (1810 mg/m3)	
WEL-TWA: 10 mg/m3 (total inhalal (respirable dust) Monitoring procedures: BMGV:	aerodynamic diam ole dust), 4 mg/m3 Butane	neter <= 10 μm)  WEL-STEL:  Other information:  WEL-STEL: 750 ppm (1810 mg/m3)  Compur - KITA-221 SA (549 459)	
WEL-TWA: 10 mg/m3 (total inhalal (respirable dust) Monitoring procedures: BMGV:  BMGV:  Chemical Name WEL-TWA: 600 ppm (1450 mg/m3) Monitoring procedures:	aerodynamic diam ole dust), 4 mg/m3 Butane	neter <= 10 μm)  WEL-STEL:  Other information:  WEL-STEL: 750 ppm (1810 mg/m3)  Compur - KITA-221 SA (549 459)  OSHA PV2010 (n-Butane) - 1993	
WEL-TWA: 10 mg/m3 (total inhalal (respirable dust) Monitoring procedures: BMGV:  BMGV:  Chemical Name WEL-TWA: 600 ppm (1450 mg/m3)	aerodynamic diam ole dust), 4 mg/m3 Butane	neter <= 10 μm)  WEL-STEL:  Other information:  WEL-STEL: 750 ppm (1810 mg/m3)  Compur - KITA-221 SA (549 459)	
WEL-TWA: 10 mg/m3 (total inhalal (respirable dust) Monitoring procedures: BMGV:  BMGV:  Chemical Name WEL-TWA: 600 ppm (1450 mg/m3) Monitoring procedures:	aerodynamic diam ole dust), 4 mg/m3 Butane	neter <= 10 μm)  WEL-STEL:  Other information:  WEL-STEL: 750 ppm (1810 mg/m3)  Compur - KITA-221 SA (549 459)  OSHA PV2010 (n-Butane) - 1993	
WEL-TWA: 10 mg/m3 (total inhalal (respirable dust) Monitoring procedures: BMGV:  BMGV:  BMGV:  Chemical Name WEL-TWA: 600 ppm (1450 mg/m3 Monitoring procedures:  BMGV:  Chemical Name	aerodynamic diam ole dust), 4 mg/m3 Butane	neter <= 10 μm)  WEL-STEL:  Other information:  WEL-STEL: 750 ppm (1810 mg/m3)  Compur - KITA-221 SA (549 459)  OSHA PV2010 (n-Butane) - 1993	
WEL-TWA: 10 mg/m3 (total inhalal (respirable dust) Monitoring procedures: BMGV:  BMGV:  BMGV:  BMGV:  BMGV:  BMGV:  BMGV:  BMGV:	aerodynamic diamole dust), 4 mg/m3  Butane )	neter <= 10 μm)  WEL-STEL:  Other information:  WEL-STEL: 750 ppm (1810 mg/m3)  Compur - KITA-221 SA (549 459)  OSHA PV2010 (n-Butane) - 1993  Other information:	
WEL-TWA: 10 mg/m3 (total inhalal (respirable dust) Monitoring procedures: BMGV:  BMGV:  BMGV:  Chemical Name WEL-TWA: 600 ppm (1450 mg/m3 Monitoring procedures:  BMGV:  Chemical Name	aerodynamic diamole dust), 4 mg/m3  Butane ) - Propane -	WEL-STEL: 750 ppm (1810 mg/m3)   Other information:	
WEL-TWA: 10 mg/m3 (total inhalal (respirable dust) Monitoring procedures: BMGV:  BMGV:  BMGV:  BMGV:  BMGV:  BMGV:  BMGV:  BMGV:	aerodynamic diamole dust), 4 mg/m3  Butane ) - Propane -	WEL-STEL: 750 ppm (1810 mg/m3)   Other information:	
WEL-TWA: 10 mg/m3 (total inhalal (respirable dust) Monitoring procedures: BMGV:	aerodynamic diamole dust), 4 mg/m3  Butane )	WEL-STEL: 750 ppm (1810 mg/m3)   Other information:	
WEL-TWA: 10 mg/m3 (total inhalal (respirable dust) Monitoring procedures: BMGV:  BMGV:  BMGV:  Chemical Name WEL-TWA: 600 ppm (1450 mg/m3 Monitoring procedures: BMGV:  BMGV:  BMGV:  BMGV:  Chemical Name WEL-TWA: 1000 ppm (ACGIH) Monitoring procedures:  BMGV:	aerodynamic diamole dust), 4 mg/m3  Butane )  - Propane - Isobutane	WEL-STEL: 750 ppm (1810 mg/m3)   Other information:	
WEL-TWA: 10 mg/m3 (total inhalal (respirable dust) Monitoring procedures: BMGV:  BMGV:  BMGV:  Chemical Name WEL-TWA: 600 ppm (1450 mg/m3 Monitoring procedures: BMGV:  BMGV:  BMGV:  BMGV:  Chemical Name WEL-TWA: 1000 ppm (ACGIH) Monitoring procedures:  BMGV:  BMGV:  Chemical Name WEL-TWA: 1000 ppm (EX) (ACGIH)	aerodynamic diamole dust), 4 mg/m3  Butane )	WEL-STEL: 750 ppm (1810 mg/m3)   Other information:	
WEL-TWA: 10 mg/m3 (total inhalal (respirable dust) Monitoring procedures: BMGV:  BMGV:  Chemical Name WEL-TWA: 600 ppm (1450 mg/m3 Monitoring procedures: BMGV:  BMGV:  Chemical Name WEL-TWA: 1000 ppm (ACGIH) Monitoring procedures:  BMGV:  Chemical Name WEL-TWA: 1000 ppm (ACGIH) Monitoring procedures:  BMGV:	aerodynamic diamole dust), 4 mg/m3  Butane )	WEL-STEL: 750 ppm (1810 mg/m3)   Other information:	

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

Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note
• •	Environmental		-			
	compartment					
	Environment - freshwater		PNEC	0,18	mg/l	
	Environment - marine		PNEC	0,018	mg/l	
	Environment - periodic		PNEC	0,36	mg/l	
	release					
	Environment - sediment,		PNEC	0,981	mg/kg	
	freshwater					
	Environment - sediment,		PNEC	0,0981	mg/kg	
	marine					
	Environment - soil		PNEC	0,0903	mg/kg	
	Environment - sewage		PNEC	35,6	mg/l	
	treatment plant					
Consumer	Human - dermal	Long term, systemic	DNEL	3,4	mg/kg	
		effects				
Consumer	Human - inhalation	Short term, systemic	DNEL	300	mg/m3	
		effects				
Consumer	Human - inhalation	Long term, systemic	DNEL	35,7	mg/m3	
		effects				
Consumer	Human - inhalation	Short term, local	DNEL	300	mg/m3	
		effects				
Consumer	Human - inhalation	Long term, local effects	DNEL	35,7	mg/m3	
Consumer	Human - dermal	Short term, systemic	DNEL	6	mg/kg	
		effects			bw/day	
Consumer	Human - oral	Long term, systemic	DNEL	2	mg/kg	
		effects			bw/day	
Consumer	Human - oral	Short term, systemic	DNEL	2	mg/kg	
		effects			bw/day	



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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 / Environmental	Effect on health	Descriptor	Value	Unit	Note
	compartment		DUE	0.00=		
	Environment - freshwater		PNEC	0,327	mg/l	
	Environment - marine		PNEC	0,327	mg/l	
	Environment - sewage		PNEC	6,58	mg/l	
	treatment plant					
	Environment - sediment,		PNEC	12,46	mg/kg dw	
	freshwater					
	Environment - sediment,		PNEC	12,46	mg/kg dw	
	marine					
	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	DNEL	442	mg/m3	
• •		effects				
Workers / employees	Human - dermal	Long term, systemic	DNEL	212	mg/kg bw/d	
1 3		effects				

2-methoxy-1-methylethy Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note
Area or application	Environmental	Lifect off fleatti	Descriptor	Value	Oille	NOLE
	compartment		DUE	0.00=		
	Environment - freshwater		PNEC	0,635	mg/l	
	Environment - marine		PNEC	0,0635	mg/l	
	Environment - sewage		PNEC	100	mg/l	
	treatment plant					
	Environment - sediment,		PNEC	3,29	mg/kg dw	
	freshwater					
	Environment - sediment,		PNEC	0,329	mg/kg dw	
	marine			,		
	Environment - soil		PNEC	0,29	mg/kg dw	
	Environment - oral (animal		PNEC	6,35	mg/l	
	feed)					
	Environment - water,		PNEC	6,35	mg/l	
	sporadic (intermittent)			·		
	release					
Consumer	Human - oral	Short term, systemic	DNEL	500	mg/kg	
Concamo.	Transact Stat	effects	D. VEE	000	bw/day	
Consumer	Human - inhalation	0000	DNEL	33	,	
Consumer	i iuiliali - Ililialalioli	Long term, systemic	DINEL	33	mg/m3	
		effects				



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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	

Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	0,184	mg/l	
	Environment - marine		PNEC	0,0184	mg/l	
	Environment - water, sporadic (intermittent) release		PNEC	0,193	mg/l	
	Environment - sewage treatment plant		PNEC	100	mg/l	
	Environment - sediment, freshwater		PNEC	1000	mg/kg dw	
	Environment - sediment, marine		PNEC	100	mg/kg dw	
	Environment - soil		PNEC	100	mg/kg dw	



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Thick Film Lacquer 4-in-1 Jet black RAL 9005 L222

400 ml Art.: 6210 2410, Art.: 6214 2410

	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	

Trizinc bis(orthophospha	<u>,                                      </u>		T		1	
Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note
	Environmental					
	compartment					
	Environment - freshwater		PNEC	20,6	μg/l	Zn
	Environment - marine		PNEC	6,1	μg/l	Zn
	Environment - sediment,		PNEC	117,8	mg/kg dry	Zn
	freshwater				weight	
	Environment - sediment,		PNEC	56,5	mg/kg dry	Zn
	marine				weight	
	Environment - soil		PNEC	35,6	mg/kg dw	Zn
	Environment - sewage		PNEC	100	μg/l	Zn
	treatment plant				' '	
Consumer	Human - dermal	Long term, systemic	DNEL	83	mg/kg	
		effects			bw/day	
Consumer	Human - inhalation	Long term, systemic	DNEL	2,5	mg/kg	
		effects			bw/day	
Consumer	Human - oral	Long term, systemic	DNEL	0,83	mg/kg	
		effects			bw/day	
Workers / employees	Human - dermal	Long term, systemic	DNEL	83	mg/kg	Zn, soluble
. ,		effects			bw/day	
Workers / employees	Human - inhalation	Long term, systemic	DNEL	5	mg/m3	Zn,
. ,		effects				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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Thick Film Lacquer 4-in-1 Jet black RAL 9005 L222

400 ml Art.: 6210 2410, Art.: 6214 2410

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

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

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:

Lower explosion limit: Upper explosion limit:

Flash point:

Auto-ignition temperature:

Decomposition temperature:

pH:

Kinematic viscosity:

Solubility:

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

Vapour pressure:

Density and/or relative density:

Relative vapour density: Particle characteristics:

9.2 Other information

Explosives: Product is not explosive. Possible build up of explosive/highly

flammable vapour/air mixture.

Does not apply to aerosols.

Does not apply to aerosols.

Does not apply to aerosols.

Does not apply to mixtures.

Does not apply to aerosols. Does not apply to aerosols.

Mixture is non-soluble (in water).

There is no information available on this parameter.

1,2 Vol-%

240 °C

26,2 Vol-%

Not miscible

4000 hPa (20°C)

0,8 g/cm3 (20°C)

Oxidising liquids: Evaporation rate:

72,86 % (Organic solvents) Solvents content:

#### SECTION 10: Stability and reactivity

Nο

n.a.



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Thick Film Lacquer 4-in-1 Jet black RAL 9005 L222

400 ml Art.: 6210 2410, Art.: 6214 2410

# 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 Jet b	lack RAL 900	5 L222				
400 ml Art.: 6210 2410, Art.: 621	14 2410					
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	Eye Irrit. 2
					Irritation/Corrosion)	
Respiratory or skin				Guinea pig	OECD 406 (Skin	Not sensitizising
sensitisation:					Sensitisation)	
Germ cell mutagenicity:				Mouse	OECD 476 (In Vitro	Negative
					Mammalian Cell Gene	
					Mutation Test)	
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative
				typhimurium	Reverse Mutation Test)	



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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 Study)	Negative
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	Endneist.	Value	Unit	Organians	Toot mothed	Notes
Toxicity / effect	Endpoint	Value		Organism	Test method	Notes
Acute toxicity, by inhalation:	LC50	164	mg/l/4h	Rat		N. 1
Skin corrosion/irritation:						Not irritant
Serious eye damage/irritation:						Not irritant
Respiratory or skin sensitisation:						No (skin contact
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:						unconsciousnes, headaches, mucous membrane irritation, dizziness, nausea and vomiting., frostbite, gastrointestinal disturbances, respiratory distress, circulatory collapse



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Thick Film Lacquer 4-in-1 Jet black RAL 9005 L222

400 ml Art.: 6210 2410, Art.: 6214 2410

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	10760	mg/kg	Rat	OECD 423 (Acute Oral	
					Toxicity - Acute Toxic	
					Class Method)	
Acute toxicity, by dermal route:	LD50	>14112	mg/kg	Rabbit	OECD 402 (Acute	
					Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	21,1	mg/l/4h	Rat	OECD 403 (Acute	Vapours
					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
, o					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)	
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
, , ,						drowsiness and
						dizziness.
Specific target organ toxicity -						Negative
repeated exposure (STOT-RE):						
Symptoms:						drowsiness,
, ,						unconsciousnes
						, headaches,
						drowsiness,
						mucous
						membrane
						irritation,
						dizziness.
						nausea and
						vomiting.
Specific target organ toxicity -	NOAEC	500	ppm	Rat		
repeated exposure (STOT-RE).			1.1			
inhalat.:						

Reaction mass of ethylbenzen	e and xylene					
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	3523-4000	mg/kg	Rat	Regulation (EC)	
					440/2008 B.1 (ACUTE	
					ORAL TOXICITY)	
Respiratory or skin				Mouse	OECD 429 (Skin	No (skin contact)
sensitisation:					Sensitisation - Local	
					Lymph Node Assay)	
Symptoms:						drowsiness,
						headaches,
						fatigue,
						dizziness,
						unconsciousness
						, nausea and
						vomiting.
Specific target organ toxicity -						Irritation of the
single exposure (STOT-SE),						respiratory tract,
inhalative:						STOT SE 3,
						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 conclusionvapour
Reproductive toxicity:	NOAEL	300-1000	ppm	Rat	OECD 416 (Two- generation Reproduction Toxicity Study)	Analogous conclusionvapour
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, unconsciousness , 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 Studies)	Vapours, Analogous conclusion

Ethanol								
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)
Germ cell mutagenicity:				Salmonella typhimurium	Lymph Node Assay) OECD 471 (Bacterial Reverse Mutation Test)	Negative
Germ cell mutagenicity:				Mouse	OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative
Germ cell mutagenicity:					OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative
Germ cell mutagenicity:					OECD 475 (Mammalian Bone Marrow Chromosome Aberration Test)	Negative
Carcinogenicity:	NOAEL	>3000	mg/kg	Rat	OECD 451 (Carcinogenicity Studies)	24 mon
Reproductive toxicity:	NOAEL	5200	mg/kg bw/d	Rat	OECD 416 (Two- generation Reproduction Toxicity Study)	
Specific target organ toxicity - repeated exposure (STOT-RE):	NOAL	>20	mg/l	Rat	OECD 403 (Acute Inhalation Toxicity)	Male
Specific target organ toxicity - repeated exposure (STOT-RE):	NOAEL	1730	mg/kg/d	Rat	OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)	Female
Symptoms:						respiratory distress, drowsiness, unconsciousnes , drop in blood pressure, vomiting, coughing, headaches, intoxication, drowsiness, mucous membrane irritation, dizziness, nausea

Titanium dioxide (in powder fo	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	Negative
					Mammalian	
					Chromosome	
					Aberration Test)	
Germ cell mutagenicity:				Salmonella	(Ames-Test)	Negative
<b>G</b> ,				typhimurium		
Germ cell mutagenicity:				•	OECD 476 (In Vitro	Negative
					Mammalian Cell Gene	
					Mutation Test)	
Germ cell mutagenicity:					OECD 471 (Bacterial	Negative
9					Reverse Mutation Test)	
Reproductive toxicity				Rat	OECD 414 (Prenatal	No indications of
(Developmental toxicity):					Developmental Toxicity	such an effect.
, , ,					Study)	
Specific target organ toxicity -					,	Not irritant
single exposure (STOT-SE):						(respiratory tract).
Symptoms:						mucous
						membrane
						irritation,
						coughing,
						respiratory
						distress, drying
						of the skin.
Specific target organ toxicity -	NOAEL	3500	mg/kg/d	Rat		90d
repeated exposure (STOT-RE),			3 3 4			-
oral:						
Specific target organ toxicity -	NOAEC	10	mg/m3	Rat		90d
repeated exposure (STOT-RE),						
inhalat.:						
	1			1	1	1

Trizinc bis(orthophosphate)						
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 Inhalation Toxicity)	Analogous conclusion
Skin corrosion/irritation:					-	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), Analogous conclusion
Germ cell mutagenicity:				Salmonella typhimurium	OECD 471 (Bacterial Reverse Mutation Test)	Negative, Analogous conclusion
Germ cell mutagenicity:						Analogous conclusion, Negative
Carcinogenicity:						Analogous conclusion, Negative
Reproductive toxicity:						Analogous conclusion, Negative
Specific target organ toxicity - single exposure (STOT-SE):						Analogous conclusion, No
Specific target organ toxicity - repeated exposure (STOT-RE):						Analogous 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
g ,					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, breathin
						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
				typhimurium	Reverse Mutation Test)	



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Thick Film Lacquer 4-in-1 Jet black RAL 9005 L222

400 ml Art.: 6210 2410, Art.: 6214 2410

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)	

# 11.2. Information on other hazards

Thick Film Lacquer 4-in-1 Jet b	Thick Film Lacquer 4-in-1 Jet black RAL 9005 L222								
400 ml Art.: 6210 2410, Art.: 6214 2410									
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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Thick Film Lacquer 4-in-1 Jet black RAL 9005 L222 400 ml Art.: 6210 2410, Art.: 6214 2410

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 weigh
						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**

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

400 ml Art.: 6210 2410, A				1			
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:							n.d.a.
12.1. Toxicity to daphnia:							n.d.a.
12.1. Toxicity to algae:							n.d.a.
12.2. Persistence and							n.d.a.
degradability:							
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:	AOX						According to the
							recipe, contains
							no AOX.
Other information:	DOC						DOC-elimination
							degree(complexi
							ng organic
							substance)>=
							80%/28d: n.a.

Acetone							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes



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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: 12.1. Toxicity to daphnia:	LC50 EC50	96h 48h	7500 6100- 12700	mg/l mg/l	Leuciscus idus 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		
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			our	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))	12 3035001100
Toxicity to bacteria:	BOD/COD	16h	1700	mg/l	Pseudomonas putida		
Other information:	BOD5		1760- 1900	mg/g			



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

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 ir 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 contain 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

n-butyl acetate	n-butyl acetate											
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes					
12.7. Other adverse effects:							Product floats on the water surface.					
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									



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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	

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
							vPvR substance

2-methoxy-1-methylethy	l acetate						
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))	

Ethanol	Endneint	Time	Value	Unit	Organiam	Toot mothed	Notes
Toxicity / effect	Endpoint				Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	13000	mg/l	Oncorhynchus	OECD 203 (Fish,	
					mykiss	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)	
10.1 Taviaituta dambaiau	EC50	48h	5414		Danhais massas	OECD 202	
12.1. Toxicity to daphnia:	EC50	4811	5414	mg/l	Daphnia magna		
						(Daphnia sp.	
						Acute	
						Immobilisation	
						Test)	
12.1. Toxicity to daphnia:	NOEC/NOEL	10d	9,6	mg/l	Ceriodaphnia		References
,					spec.		
12.1. Toxicity to algae:	EC50	72h	275	mg/l	Chlorella vulgaris	OECD 201 (Alga,	
, ,						Growth Inhibition	
						Test)	
12.2. Persistence and		28d	97	%	activated sludge	OECD 301 B	Readily
degradability:		200	31	/0	activated sludge	(Ready	biodegradable
							biodegradable
						Biodegradability -	
						Co2 Evolution	
						Test)	
12.3. Bioaccumulative	Log Pow		(-0,35) -				Bioaccumulation
potential:			(-0,32)				is unlikely
							(LogPow < 1).
12.3. Bioaccumulative	BCF		0,66 -				
potential:			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			1,0				No PBT
and vPvB assessment							substance. No
and vi vb assessment							vPvB substance
Toxicity to bacteria:	IC50	3h	>1000	ma/l	activated sludge	OECD 209	
roxicity to bacteria:	1000	311	>1000	mg/l	activated studge		Analogous
						(Activated Sludge,	conclusion
						Respiration	
						Inhibition Test	
				1		(Carbon and	
						Ammonium	
						Oxidation))	
Other organisms:	NOEC/NOEL		280	mg/l	Lemna gibba	OECD 201 (Alga,	
Other organisms.	INOLO/INOLL		200	1119/1	Lonnia gibba	Growth Inhibition	
				1		Test)	I



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

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 Test)	
12.1. Toxicity to daphnia:	LC50	48h	>100	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	EC50	72h	16	mg/l	Pseudokirchneriell a subcapitata	U.S. EPA-600/9- 78-018	
12.2. Persistence and degradability:							Not relevant for inorganic substances.
12.3. Bioaccumulative potential:	BCF	42d	9,6				Not to be expected
12.3. Bioaccumulative potential:	BCF	14d	19-352				Oncorhynchus mykiss
12.4. Mobility in soil: 12.5. Results of PBT							Negative 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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400 ml Art.: 6210 2410, Art.: 6214 2410

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	Isobutane						
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.3. Bioaccumulative potential:	·						A notable 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 degradability: 12.5. Results of PBT and vPvB assessment							Readily biodegradable No PBT 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

Recyclin

Do not perforate, cut up or weld uncleaned container.

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



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400 ml Art.: 6210 2410, Art.: 6214 2410

#### **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

14.3. Transport hazard class(es):2.114.4. Packing group:-Classification code:5FLQ:1 L

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 be trained. All persons involved in transporting must observe safety regulations.

Precautions must be taken to prevent damage.

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

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

Minimum amount regulations have not been taken into account.

Danger code and packing code on request.

Comply with special provisions.

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

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

Observe restrictions:

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

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

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.):

according to storage, nandling etc.)	J•		
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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400 ml Art.: 6210 2410, Art.: 6214 2410

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

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**

Revised sections:

8

Employee training in handling dangerous goods is required.

These details refer to the product as it is delivered.

Employee instruction/training in handling hazardous materials is required.

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

Classification in accordance with regulation	Evaluation method used
(EC) No. 1272/2008 (CLP)	
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.

ECHÁ 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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Thick Film Lacquer 4-in-1 Jet black RAL 9005 L222

400 ml Art.: 6210 2410, Art.: 6214 2410

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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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BCF Bioconcentration factor

BSEF The International Bromine Council

bw body weight

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

dw dry weight

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

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

EC European Community
ECHA European Chemicals Agency
ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100)

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

EEC European Economic Community

EINECS European Inventory of Existing Commercial Chemical Substances

ELINCS European List of Notified Chemical Substances

EN European Norms

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

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

etc. et cetera EU European Union

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

IARC International Agency for Research on Cancer IATA International Air Transport Association IBC (Code) International Bulk Chemical (Code)

IMDG-code International Maritime Code for Dangerous Goods

incl. including, inclusive

IUCLID International Uniform Chemical Information Database IUPAC International Union for Pure Applied Chemistry LC50 Lethal Concentration to 50 % of a test population

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

Log Koc Logarithm of adsorption coefficient of organic carbon in the soil Log Kow, Log Pow Logarithm of octanol-water partition coefficient

LQ Limited Quantities

MARPOL International Convention for the Prevention of Marine Pollution from Ships

n.a. not applicable n.av. not available n.c. not checked n.d.a. no data available

NIOSH National Institute for Occupational Safety and Health (USA)

NLP No-longer-Polymer

NOEC, NOEL No Observed Effect Concentration/Level

OECD Organisation for Economic Co-operation and Development

org. organic

OSHA Occupational Safety and Health Administration (USA)

PBT persistent, bioaccumulative and toxic

PE Polyethylene

PNEC Predicted No Effect Concentration

ppm parts per million PVC Polyvinylchloride

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

Evaluation, Authorisation and Restriction of Chemicals)

REACH-IT List-No. 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



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Telephone Tel.

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

wet weight wwt

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

# These statements were made by: Chemical Check Platz 1-7, D-32839 Steinheim, Tel.: +49 5233 94 17 0, Fax: +49 5233 94 17 90

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