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

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

1.1 Product identifier

4F-Topcoat walk-on grey 5 kg Art.: 9095836

1.2 Relevant identified uses of the substance or mixture and uses advised against Relevant identified uses of the substance or mixture: Coating
Uses advised against: No information available at present.

1.3 Details of the supplier of the safety data sheet

BTI Befestigungstechnik GmbH & Co. KG Salzstr. 51 74653 Ingelfingen Tel.: +49 7940 141 141 Fax: +49 7940 141 9141 Email: info@bti.de Homepage: www.bti.de

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 (BRC)

+1 872 5888271 (BRC)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Classification according to Regulation (EC) 1272/2008 (CLP) Hazard class Hazard category Hazard statement Flam. Liq. H226-Flammable liquid and vapour. 3 STOT RE 2 H373-May cause damage to organs through prolonged or repeated exposure (organs of hearing). Eve Irrit. 2 H319-Causes serious eye irritation. STOT SE 3 H335-May cause respiratory irritation.



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Skin Irrit.	2	H315-Causes skin irritation.
Skin Sens.	1	H317-May cause an allergic skin reaction.
Asp. Tox.	1	H304-May be fatal if swallowed and enters airways.
Aquatic Chronic	3	H412-Harmful to aquatic life with long lasting effects.

2.2 Label elements

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



H226-Flammable liquid and vapour. H373-May cause damage to organs through prolonged or repeated exposure (organs of hearing). H319-Causes serious eye irritation. H335-May cause respiratory irritation. H315-Causes skin irritation. H317-May cause an allergic skin reaction. H304-May be fatal if swallowed and enters airways. H412-Harmful to aquatic life with long lasting effects.

P210-Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P260-Do not breathe vapours or spray. P273-Avoid release to the environment. P280-Wear protective gloves / eye protection / face protection.

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

EUH204-Contains isocyanates. May produce an allergic reaction. EUH211-Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

As from 24 August 2023 adequate training is required before industrial or professional use. Maleic anhydride

3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate

4,5-Dichloro-2-octyl-2H-isothiazol-3-one

 $1, 6\-hexanediyl-bis (2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl) carbamate$

Isophoronediisocyanate, homopolymer

Reaction mass of ethylbenzene and m-xylene and p-xylene

Addition reaction products of conjugated sunflower-oil fatty acids and tall-oil fatty acids with maleic anhydride

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 %).



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3.1 Substances n.a.

3.2 Mixtures

3.2 IVIIXtures	
Reaction mass of ethylbenzene and m-xylene and p-	Substance for which an EU exposure limit
xylene	value applies.
Registration number (REACH)	01-2119488216-32-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	905-562-9
CAS	
content %	30-<40
Classification according to Regulation (EC) 1272/2008	Flam. Liq. 3, H226
(CLP), M-factors	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
	Aquatic Chronic 3, H412

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 %	10-<20
Classification according to Regulation (EC) 1272/2008	Carc. 2, H351 (as inhalation)
(CLP), M-factors	

2-methoxy-1-methylethyl acetate	Substance for which an EU exposure limit	
	value applies.	
Registration number (REACH)	01-2119475791-29-XXXX	
Index	607-195-00-7	
EINECS, ELINCS, NLP, REACH-IT List-No.	203-603-9	
CAS	108-65-6	
content %	3-<5	
Classification according to Regulation (EC) 1272/2008	Flam. Liq. 3, H226	
(CLP), M-factors		

1,6-hexanediyl-bis(2-(2-(1-ethylpentyl)-3- oxazolidinyl)ethyl)carbamate	
Registration number (REACH)	01-0000015906-63-XXXX
Index	616-079-00-5
EINECS, ELINCS, NLP, REACH-IT List-No.	411-700-4
CAS	140921-24-0
content %	3-<5
Classification according to Regulation (EC) 1272/2008	Skin Sens. 1, H317
(CLP), M-factors	



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Isophoronediisocyanate, homopolymer	
Registration number (REACH)	01-2119488734-24-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	931-312-3
CAS	
content %	3-<5
Classification according to Regulation (EC) 1272/2008	Skin Sens. 1B, H317
(CLP), M-factors	STOT SE 3, H335

Addition reaction products of conjugated sunflower-oil	
fatty acids and tall-oil fatty acids with maleic anhydride	
Registration number (REACH)	01-2119976378-19-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	
CAS	
content %	0,1-<1
Classification according to Regulation (EC) 1272/2008	Skin Irrit. 2, H315
(CLP), M-factors	Skin Sens. 1, H317

3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	
Registration number (REACH)	01-2119490408-31-XXXX
Index	615-008-00-5
EINECS, ELINCS, NLP, REACH-IT List-No.	223-861-6
CAS	4098-71-9
content %	0,25-<0,5
Classification according to Regulation (EC) 1272/2008	Acute Tox. 3, H331
(CLP), M-factors	Skin Irrit. 2, H315
	Eye Irrit. 2, H319
	Resp. Sens. 1, H334
	Skin Sens. 1, H317
	STOT SE 3, H335
	Aquatic Chronic 2, H411
Specific Concentration Limits and ATE	Skin Sens. 1, H317: >=0,5 %
	Resp. Sens. 1, H334: >=0,5 %

Maleic anhydride	
Registration number (REACH)	01-2119472428-31-XXXX
Index	607-096-00-9
EINECS, ELINCS, NLP, REACH-IT List-No.	203-571-6
CAS	108-31-6
content %	0,001-<0,1
Classification according to Regulation (EC) 1272/2008	Acute Tox. 4, H302
(CLP), M-factors	Skin Corr. 1B, H314
	Eye Dam. 1, H318
	Resp. Sens. 1, H334
	Skin Sens. 1A, H317
	STOT RE 1, H372 (respiratory system) (as
	inhalation)
Specific Concentration Limits and ATE	Skin Sens. 1A, H317: 0,001 %

4,5-Dichloro-2-octyl-2H-isothiazol-3-one



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Registration number (REACH)	
Index	613-335-00-8
EINECS, ELINCS, NLP, REACH-IT List-No.	264-843-8
CAS	64359-81-5
content %	0,0025-<0,025
Classification according to Regulation (EC) 1272/2008	EUH071
(CLP), M-factors	Acute Tox. 2, H330
	Acute Tox. 4, H302
	Skin Corr. 1, H314
	Eye Dam. 1, H318
	Skin Sens. 1A, H317
	Aquatic Acute 1, H400 (M=100)
	Aquatic Chronic 1, H410 (M=100)
Specific Concentration Limits and ATE	Skin Irrit. 2, H315: >=0,025 %
	Eye Irrit. 2, H319: >=0,025 %
	Skin Sens. 1A, H317: >=0,0015 %
	ATE (oral): 567 mg/kg
	ATE (as inhalation, Mist): 0,16 mg/l/4h

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

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

Do not induce vomiting. Consult doctor immediately.

Danger of aspiration.

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

4.2 Most important symptoms and effects, both acute and delayed

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1. In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours. Watering eyes

Drying of the skin.

Dermatitis (skin inflammation)



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Allergic reaction possible. Ingestion: Nausea Vomiting Danger of aspiration. Oedema of the lungs Chemical pneumonitis (condition similar to pneumonia) **4.3 Indication of any immediate medical attention and special treatment needed** Gastric lavage (stomach washing) only under endotracheal intubation. Subsequent observation for pneumonia and pulmonary oedema.

SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media Water jet spray/foam/CO2/dry extinguisher Unsuitable extinguishing media High volume water jet 5.2 Special hazards arising from the substance or mixture In case of fire the following can develop: Oxides of carbon Oxides of nitrogen Hydrogen cyanide Toxic gases 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. According to size of fire Full protection, if necessary. Cool container at risk with water. Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures 6.1.1 For non-emergency personnel

In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination. Ensure sufficient ventilation, remove sources of ignition.

Avoid dust formation with solid or powder products.

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

Keep unprotected persons away.

Avoid contact with eyes or skin.

If applicable, caution - risk of slipping.

6.1.2 For emergency responders

See section 8 for suitable protective equipment and material specifications.

6.2 Environmental precautions



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If leakage occurs, dam up.
Resolve leaks if this possible without risk.
Prevent surface and ground-water infiltration, as well as ground penetration.
Prevent from entering drainage system.
If accidental entry into drainage system occurs, inform responsible authorities. **6.3 Methods and material for containment and cleaning up**Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth, sawdust) and dispose of according to Section 13.
Fill the absorbed material into lockable containers. **6.4 Reference to other sections**For personal protective equipment see Section 8 and for disposal instructions see Section 13.

SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1. 7.1 Precautions for safe handling 7.1.1 General recommendations Ensure good ventilation. Avoid inhalation of the vapours. Keep away from sources of ignition - Do not smoke. Take precautions against electrostatic charges. 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 storage conditions. Under all circumstances prevent penetration into the soil. Do not store with flammable or self-igniting materials. Protect from direct sunlight and warming. Store in a well ventilated place. Store cool. 7.3 Specific end use(s)

No information available at present.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Reaction mass of ethylbenzene and m-xylene and p-xylene	Content %:30-<40
	Reaction mass of ethylbenzene and m-xylene and p-xylene



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(WEL), 50 ppm (221 mg/m3) (EU) (Xylene), 100 ppm (441mg/m3) (WEL), 100 ppm (442 mg/m3) (EU) (Ethylbenzene)(WEL), 100 ppm (442 mg/m3) (EU) (Xylene), 125 ppm (552 mg/m3) (WEL), 200 ppm (884 mg/m3) (EU) (Ethylbenzene)Monitoring procedures:INSHT MTA/MA-030/A92 (Determination of aromatic hydrocarbons (benzene, toluene, ethylbenzene, p-xylene, 1,2,4- trimethylbenzene) in air - Charcoal tube method / Gas chromatography) - 1992 - EU project BC/CEN/ENTR/000/2002-16 - card 47-1 (2004) - OSHA 1002 (Xylenes (o-, m-, p-isomers) Ethylbenzene) - 1999 - Draeger - Hydrocarbons 0,1%/c (81 03 571) - Draeger - Hydrocarbons 2/a (81 03 581)BMGV:650 mmol methyl hippuric acid/mol creatinine in urine, post shift (Xylene, o-, m-, p- or mixed isomers) (BMGV) (Xylene)Other information: Sk (WEL) (Xylene), Sk (WEL) (Ethylbenzene)	WEL-TWA: 220 mg/m3 (50 ppm)	WEL-STEL: 100 ppm (441 mg/m3		
100 ppm (442 mg/m3) (EU)200 ppm (884 mg/m3) (EU)(Ethylbenzene)(Ethylbenzene)Monitoring procedures:INSHT MTA/MA-030/A92 (Determination of aromatic hydrocarbons (benzene, toluene, ethylbenzene, p-xylene, 1,2,4- trimethylbenzene) in air - Charcoal tube method / Gas chromatography) - 1992 - EU project BC/CEN/ENTR/000/2002-16-card 47-1 (2004)-OSHA 1002 (Xylenes (o-, m-, p-isomers) Ethylbenzene) - 1999-Draeger - Hydrocarbons 0,1%/c (81 03 571)-Draeger - Hydrocarbons 2/a (81 03 581)BMGV:650 mmol methyl hippuric acid/mol creatinine in urine,	(WEL), 50 ppm (221 mg/m3) (EU)	(WEL), 100 ppm (442 mg/m3) (EU)		
(Ethylbenzene)(Ethylbenzene)Monitoring procedures:INSHT MTA/MA-030/A92 (Determination of aromatic hydrocarbons (benzene, toluene, ethylbenzene, p-xylene, 1,2,4- trimethylbenzene) in air - Charcoal tube method / Gas chromatography) - 1992 - EU project BC/CEN/ENTR/000/2002-16 - card 47-1 (2004) - OSHA 1002 (Xylenes (o-, m-, p-isomers) Ethylbenzene) - 1999 - Draeger - Hydrocarbons 0,1%/c (81 03 571) - Draeger - Hydrocarbons 2/a (81 03 581)BMGV:650 mmol methyl hippuric acid/mol creatinine in urine,Other information: Sk (WEL)	(Xylene), 100 ppm (441mg/m3) (WEL),	(Xylene), 125 ppm (552 mg/m3) (WEL),		
Monitoring procedures: INSHT MTA/MA-030/A92 (Determination of aromatic hydrocarbons (benzene, toluene, ethylbenzene, p-xylene, 1,2,4-trimethylbenzene) in air - Charcoal tube method / Gas chromatography) - 1992 - EU project BC/CEN/ENTR/000/2002-16 - card 47-1 (2004) - OSHA 1002 (Xylenes (o-, m-, p-isomers) Ethylbenzene) - 1999 - Draeger - Hydrocarbons 0,1%/c (81 03 571) - Draeger - Hydrocarbons 2/a (81 03 581) BMGV: 650 mmol methyl hippuric acid/mol creatinine in urine,	100 ppm (442 mg/m3) (EU)	200 ppm (884 mg/m3) (EU)		
hydrocarbons (benzene, toluene, ethylbenzene, p-xylene, 1,2,4- trimethylbenzene) in air - Charcoal tube method / Gas chromatography) - 1992 - EU project BC/CEN/ENTR/000/2002-16 - card 47-1 (2004) - OSHA 1002 (Xylenes (o-, m-, p-isomers) Ethylbenzene) - 1999 - Draeger - Hydrocarbons 0,1%/c (81 03 571) - Draeger - Hydrocarbons 2/a (81 03 581) BMGV: 650 mmol methyl hippuric acid/mol creatinine in urine, Other information: Sk (WEL)	(Ethylbenzene)	(Ethylbenzene)		
trimethylbenzene) in air - Charcoal tube method / Gas chromatography) - 1992 - EU project BC/CEN/ENTR/000/2002-16 - card 47-1 (2004) - OSHA 1002 (Xylenes (o-, m-, p-isomers) Ethylbenzene) - 1999 - Draeger - Hydrocarbons 0,1%/c (81 03 571) - Draeger - Hydrocarbons 2/a (81 03 581) BMGV: 650 mmol methyl hippuric acid/mol creatinine in urine, Other information: Sk (WEL)	Monitoring procedures:			
chromatography) - 1992 - EU project BC/CEN/ENTR/000/2002-16 - card 47-1 (2004) - OSHA 1002 (Xylenes (o-, m-, p-isomers) Ethylbenzene) - 1999 - Draeger - Hydrocarbons 0,1%/c (81 03 571) - Draeger - Hydrocarbons 2/a (81 03 581) BMGV: 650 mmol methyl hippuric acid/mol creatinine in urine, Other information: Sk (WEL)	hydrocarbons (benzene, toluene, ethylbenzene, p-xylene, 1,2,4-			
 card 47-1 (2004) OSHA 1002 (Xylenes (o-, m-, p-isomers) Ethylbenzene) - 1999 Draeger - Hydrocarbons 0,1%/c (81 03 571) Draeger - Hydrocarbons 2/a (81 03 581) BMGV: 650 mmol methyl hippuric acid/mol creatinine in urine, Other information: Sk (WEL) 				
 OSHA 1002 (Xylenes (o-, m-, p-isomers) Ethylbenzene) - 1999 Draeger - Hydrocarbons 0,1%/c (81 03 571) Draeger - Hydrocarbons 2/a (81 03 581) BMGV: 650 mmol methyl hippuric acid/mol creatinine in urine, Other information: Sk (WEL) 	chromatography) - 1992 - EU project BC/CEN/ENTR/000/2002-16			
 Draeger - Hydrocarbons 0,1%/c (81 03 571) Draeger - Hydrocarbons 2/a (81 03 581) BMGV: 650 mmol methyl hippuric acid/mol creatinine in urine, Other information: Sk (WEL) 	- card 47-1 (2004)			
- Draeger - Hydrocarbons 2/a (81 03 581) BMGV: 650 mmol methyl hippuric acid/mol creatinine in urine, Other information: Sk (WEL)	- OSHA 1002 (Xylenes (o-, m-, p-isomers) Ethylbenzene) - 1999			
BMGV: 650 mmol methyl hippuric acid/mol creatinine in urine, Other information: Sk (WEL)				
post shift (Xvlene, o-, m-, p- or mixed isomers) (BMGV) (Xvlene) (Xvlene), Sk (WEL) (Ethvlbenzene)			· /	
	WEL) (Ethylbenzene)			

(B) Chemical Name		Titanium diox	f	Content						
		particles with		%:10-<20						
V	VEL-TWA: 10 mg/m3 (to	otal inhalable	WEL-STEL:							
d	ust), 4 mg/m3 (respirable d									
N	Monitoring procedures:									
E	BMGV:				Other information	:				

^(B) Chemical Name	2-methoxy-1-	-methylethyl acetate			Content %:3- <5	
WEL-TWA: 50 ppm (274 r	ng/m3)	WEL-STEL: 100 ppm	(548 mg/m3)			
(WEL), 50 ppm (275 mg/m3)) (EU)	(WEL), 100 ppm (550 m	ng/m3) (EU)			
Monitoring procedures:		INSHT MTA/MA-024/A9	2 (Determination of e	esters I	I (1-methoxy-	
		2-propyl acetate, 2-ethoxyd	ethyl acetate) in air - (Charco	oal tube	
		method / Gas chromatograp	phy) - 1992 - EU proj	ject		
	-	BC/CEN/ENTR/000/2002	-16 card 15-1 (2004)			
	- NIOSH 2554 (GLYCOL ETHERS) - 2003					
	-	OSHA 99 (Propylene Glyc	ol Monomethyl Ether	rs/Ace	tates) - 1993	
BMGV:			Other information:	Sk ((WEL)	

^(®) Chemical Name 3-is	ocyanatomethyl-3,5,5-trimethylcyclohe	methyl-3,5,5-trimethylcyclohexyl isocyanate				
WEL-TWA: 0,02 mg/m3 (Isocy	nates, WEL-STEL: 0,07 mg/m3	(Isocyanates,				
all (as -NCO))	all (as -NCO))					
Monitoring procedures:	ISO 16702 (Workplace air qu	ality - determination of	total			
	isocyanate groups in air using	2-(1-methoxyphenylpi	perazine and			
	- liquid chromatography) - 200	7				
	MDHS 25/4 (Organic isocyan	ates in air – Laboratory	method using			
	sampling either onto 2-(1-met	hoxyphenylpiperazine o	coated glass			
	fibre filters followed by solve	nt desorption or into im	pingers and			
	analysis using high performan	ce liquid chromatograp	hy) - 2015 -			
	- EU project BC/CEN/ENTR/0	00/2002-16 card 56-3 (2	2004)			
	- NIOSH 5525 (ISOCYANATI	ES, TOTAL (MAP)) - 2	2003			
- OSHA PV2034 (Isophorone Diisocyanate (IPDI)) - 1988						
BMGV: 1 µmol isocyanate-derived diamine/mol creatinine in urine Other information: Sen (Isocyan						
(At the end of the period of exposure) all (as -NCO))						



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Chemical Name	Maleic anhydride		Content %:0,001- <0,1
WEL-TWA: 1 mg/m3	WEL-STEL: 3 mg/n	13	
Monitoring procedures:			
BMGV:		Other information: Sen	

Reaction mass of ethylbenzene and m-xylene and p-xylene									
Area of application	Exposure route /	Effect on health	Descript	Value	Unit	Note			
	Environmental		or						
	compartment								
	Environment -		PNEC	0,327	mg/l				
	freshwater								
	Environment - marine		PNEC	0,327	mg/l				
	Environment -		PNEC	12,46	mg/kg				
	sediment, freshwater								
	Environment -		PNEC	12,46	mg/kg				
	sediment, marine								
	Environment - soil		PNEC	2,31	mg/kg				
	Environment -		PNEC	6,58	mg/l				
	sewage treatment				-				
	plant								
Workers / employees	Human - inhalation	Long term,	DNEL	221	mg/m3				
		systemic effects							
Workers / employees	Human - inhalation	Short term,	DNEL	442	mg/m3				
		systemic effects							

Titanium dioxide (in powder form containing 1 % or more of particles with aerodynamic diameter <= 10 μm)									
Area of application	Exposure route / Environmental	Effect on health	Descript or	Value	Unit	Note			
	compartment Environment - freshwater		PNEC	0,184	mg/l				
	Environment - marine		PNEC	0,018 4	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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	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	

2-methoxy-1-methylet	thyl acetate					
Area of application	Exposure route / Effect on he Environmental compartment		Descript or	Value	Unit	Note
	Environment - freshwater		PNEC	0,635	mg/l	
	Environment - sediment, freshwater		PNEC	3,29	mg/kg	
	Environment - sediment, marine		PNEC	0,329	mg/kg	
	Environment - soil		PNEC	0,29	mg/kg	
	Environment - sewage treatment plant		PNEC	100	mg/l	
	Environment - marine		PNEC	0,063 5	mg/l	
	Environment - water, sporadic (intermittent) release		PNEC	6,35	mg/l	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	33	mg/m3	
Consumer	Human - dermal	Long term, systemic effects	DNEL	54,8	mg/kg	
Consumer	Human - oral	Long term, systemic effects	DNEL	1,67	mg/kg	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	153,5	mg/kg	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	275	mg/m3	

Maleic anhydride									
Area of application Exposure route / 1		Effect on health	Descript	Value	Unit	Note			
	Environmental		or						
	compartment								
	Environment -		PNEC	0,042	mg/l				
	freshwater			81					
	Environment - marine		PNEC	0,004	mg/l				
				281					
	Environment - water,		PNEC	0,428	mg/l				
	sporadic			1					
	(intermittent) release								



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	Environment - sewage treatment plant		PNEC	4,46	mg/l
	Environment - sediment, freshwater		PNEC	0,06	mg/kg
	Environment - sediment, marine		PNEC	0,006	mg/kg
	Environment - soil		PNEC	0,041 5	mg/l
	Environment - oral (animal feed)		PNEC	6,67	mg/kg
Workers / employees	Human - dermal	Short term, systemic effects	DNEL	0,04	mg/kg body weight/d ay
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	0,8	mg/m3
Workers / employees	Human - dermal	Short term, local effects	DNEL	0,04	mg/cm2
Workers / employees	Human - inhalation	Short term, local effects	DNEL	0,8	mg/m3
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	0,04	mg/kg
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	0,19	mg/m3
Workers / employees	Human - dermal	Long term, local effects	DNEL	0,04	mg/kg body weight/d ay
Workers / employees	Human - inhalation	Long term, local effects	DNEL	0,32	mg/m3

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). (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.

(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

^{** =} The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.



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8.2.1 Appropriate engineering controls

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

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.

Applies only if maximum permissible exposure values are listed here.

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

These are specified by e.g. EN 14042.

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

8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

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

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

Skin protection - Hand protection: Chemical resistant protective gloves (EN ISO 374). Recommended Protective gloves in butyl rubber (EN ISO 374). Minimum layer thickness in mm: >= 0,5 Protective gloves made of fluorocarbon rubber (EN ISO 374). Minimum layer thickness in mm: >= 0,4 Permeation time (penetration time) in minutes: >= 480 The breakthrough times determined in accordance with EN 16523-1

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. Protective hand cream recommended.

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

Respiratory protection: If OES or MEL is exceeded. Filter A2 P2 (EN 14387), code colour brown, white Observe wearing time limitations for respiratory protection equipment.

Thermal hazards: Not applicable

Additional information on hand protection - No tests have been performed. In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.



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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

9.1 Information on basic physical and chemical prop	erties
Physical state:	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:	130 °C
Flammability:	Flammable
Lower explosion limit:	0,8 Vol-%
Upper explosion limit:	There is no information available on this parameter.
Flash point:	27-32 °C (closed cup, Reaction mass of ethylbenzene
	and m-xylene and p-xylene)
Auto-ignition temperature:	488 °C (Reaction mass of ethylbenzene and m-xylene
	and p-xylene)
Decomposition temperature:	There is no information available on this parameter.
pH:	Mixture is non-soluble (in water).
Kinematic viscosity:	>40 mPas (20°C, Dynamic viscosity, Dynamic
	viscosity)
Solubility:	Not miscible
Partition coefficient n-octanol/water (log value):	Does not apply to mixtures.
Vapour pressure:	There is no information available on this parameter.
Density and/or relative density:	1,14 g/cm3 (20°C)
Relative vapour density:	There is no information available on this parameter.
Particle characteristics:	Does not apply to liquids.
9.2 Other information	
Explosives:	Product is not explosive. When using: development of
	explosive vapour/air mixture possible.
Oxidising liquids:	No
Solvents content:	460 g/l (Organic solvents)

SECTION 10: Stability and reactivity

10.1 ReactivityThe product has not been tested.10.2 Chemical stability



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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
Electrostatic charge
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).

4F-Topcoat walk-on gre	y 5 kg					
Art.: 9095836						
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes
	nt					
Acute toxicity, by oral						n.d.a.
route:						
Acute toxicity, by	ATE	2933	mg/kg			calculated
dermal route:						value
Acute toxicity, by	ATE	>28,2	mg/l/4h			calculated
inhalation:						value,
						Vapours
Skin corrosion/irritation:						n.d.a.
Serious eye						n.d.a.
damage/irritation:						
Respiratory or skin						n.d.a.
sensitisation:						
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Specific target organ						n.d.a.
toxicity - single						
exposure (STOT-SE):						
Specific target organ						n.d.a.
toxicity - repeated						
exposure (STOT-RE):						
Aspiration hazard:						Asp. Tox. 1
Symptoms:						n.d.a.

Reaction mass of ethylbenzene and m-xylene and p-xylene							
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes	
	nt						
Acute toxicity, by oral	LD50	3523	mg/kg	Rat	Regulation (EC)		
route:					440/2008 B.1		
					(ACUTE ORAL		
					TOXICITY)		



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Acute toxicity, by inhalation:	LC50	6350	ppm	Rat	Regulation (EC) 440/2008 B.2 (ACUTE TOXICITY (INHALATION))	Vapours
Germ cell mutagenicity:					OECD 478 (Genetic Toxicology - Rodent dominant Lethal Test)	Negative, Analogous conclusion
Germ cell mutagenicity:				Salmonella typhimuri um	OECD 471 (Bacterial Reverse Mutation Test)	Negative, Analogous conclusion
Aspiration hazard:						Asp. Tox. 1

μm) Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes
	nt					
Acute toxicity, by oral	LD50	>5000	mg/kg	Rat	OECD 425 (Acute	
route:					Oral Toxicity -	
					Up-and-Down	
A	1.0.50	5000		D 111	Procedure)	
Acute toxicity, by	LD50	>5000	mg/kg	Rabbit		
dermal route:	1.5.50					
Acute toxicity, by	LD50	>6,8	mg/l/4h	Rat		
inhalation:				5.111	0.505 404 (4	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Not irritant
					Dermal	
					Irritation/Corrosio	
					n)	
Serious eye				Rabbit	OECD 405 (Acute	Not irritant,
damage/irritation:					Eye	Mechanical
					Irritation/Corrosio	irritation
					n)	possible.
Respiratory or skin				Mouse	OECD 429 (Skin	Not
sensitisation:					Sensitisation -	sensitizising
					Local Lymph	
					Node Assay)	
Respiratory or skin				Guinea pig	OECD 406 (Skin	No (skin
sensitisation:					Sensitisation)	contact)
Germ cell mutagenicity:				Mouse	OECD 474	Negative
					(Mammalian	
					Erythrocyte	
					Micronucleus	
					Test)	
Germ cell mutagenicity:				Mammalia	OECD 473 (In	Negative
				n	Vitro Mammalian	
					Chromosome	
					Aberration Test)	



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Germ cell mutagenicity:				Salmonella typhimuri um	(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

2-methoxy-1-methylethy	2-methoxy-1-methylethyl acetate							
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes		
	nt							
Acute toxicity, by oral	LD50	>5000	mg/kg	Rabbit	OECD 401 (Acute			
route:					Oral Toxicity)			
Acute toxicity, by	LD50	>5000	mg/kg	Rat				
dermal route:								
Acute toxicity, by	LC50	>23,8	mg/l/6h	Rat				
inhalation:								
Acute toxicity, by	LC50	35,7	mg/l/4h	Rat		Vapours		
inhalation:								
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Not irritant		
					Dermal			
					Irritation/Corrosio			
					n)			
Serious eye				Rabbit		Mild irritant		
damage/irritation:								



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Respiratory or skin sensitisation:	Guinea pig	OECD 406 (Skin Sensitisation)	No (skin contact)
Germ cell mutagenicity:		OECD 471	No
		(Bacterial Reverse	indications
		Mutation Test)	of such an
			effect.
Symptoms:			respiratory
			distress,
			drowsiness,
			unconsciousn
			ess,
			vomiting,
			headaches,
			mucous
			membrane
			irritation,
			dizziness,
			nausea

Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes
	nt					
Acute toxicity, by oral route:	LD50	>2000	mg/kg	Rat		
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rat		
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosio n)	Not irritant
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosio n)	Not irritant
Respiratory or skin sensitisation:				Human being	OECD 406 (Skin Sensitisation)	Sensitising (skin contact)
Germ cell mutagenicity:					OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative
Germ cell mutagenicity:				Salmonella typhimuri um	OECD 471 (Bacterial Reverse Mutation Test)	Negative
Specific target organ toxicity - repeated exposure (STOT-RE):	NOAEL	200	mg/kg	Rat	OECD 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)	



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Toxicity / effect	Endpoi nt	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral	LD50	>2000	mg/kg	Rat	OECD 423 (Acute	
route:					Oral Toxicity -	
					Acute Toxic Class	
					Method)	
Skin corrosion/irritation:					OECD 439 (In	Skin Irrit. 2
					Vitro Skin	
					Irritation -	
					Reconstructed	
					Human Epidermis	
					Test Method)	
Serious eye				Rabbit	OECD 405 (Acute	Not irritant
damage/irritation:					Eye	
					Irritation/Corrosio	
					n)	
Respiratory or skin				Mouse	OECD 429 (Skin	Sensitising
sensitisation:					Sensitisation -	(skin
					Local Lymph	contact)
					Node Assay)	
Germ cell mutagenicity:					OECD 471	Negative
					(Bacterial Reverse	_
					Mutation Test)	
Reproductive toxicity	NOAEL	>=1000	mg/kg	Rat	OECD 422	
(Developmental					(Combined	
toxicity):					Repeated Dose	
•					Tox. Study with	
					the	
					Reproduction/Dev	
					elopm. Tox.	
					Screening Test)	
Reproductive toxicity	NOAEL	1000	mg/kg	Rat	OECD 422	
(Effects on fertility):					(Combined	
					Repeated Dose	
					Tox. Study with	
					the	
					Reproduction/Dev	
					elopm. Tox.	
					Screening Test)	

3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate							
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes	
	nt						
Acute toxicity, by oral	LD50	4825	mg/kg	Rat			
route:							
Acute toxicity, by	LD50	>7000	mg/kg	Rat			
dermal route:							
Skin corrosion/irritation:						Irritant	



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	T			
Serious eye				Irritant
damage/irritation:				
Respiratory or skin				Sensitising
sensitisation:				(inhalation
sensitisation.				
				and skin
				contact)
Symptoms:				asthmatic
				symptoms,
				ataxia,
				breathing
				difficulties,
				respiratory
				distress,
				eyes,
				reddened,
				coughing,
				mucous
				membrane
				irritation,
				trembling
Specific target organ				Irritation of
toxicity - single				the
exposure (STOT-SE),				respiratory
inhalative:				tract
	1			

Maleic anhydride						
Toxicity / effect	Endpoi nt	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	1090	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	2620	mg/kg	Rabbit		
Acute toxicity, by inhalation:	LC50	>4,35	mg/l/4h	Mouse		
Skin corrosion/irritation:				Human being		Corrosive
Skin corrosion/irritation:				Rat		Corrosive
Serious eye damage/irritation:				Rabbit		Corrosive, Risk of serious damage to eyes.
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Sensitising (skin contact)
Respiratory or skin sensitisation:				Rat		Sensitising (inhalation)
Germ cell mutagenicity:					bacterial	References, Negative
Carcinogenicity:	NOAEL	>100	mg/kg bw/d	Rat		oral



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Reproductive toxicity:	NOAEC	650	mg/kg bw/d	Rat	
Symptoms:					asthmatic
					symptoms,
					breathing
					difficulties,
					respiratory
					distress,
					burning of
					the
					membranes
					of the nose
					and throat,
					blisters,
					coughing,
					headaches,
					gastrointestin
					al
					disturbances,
					mucous
					membrane
					irritation,
					watering
					eyes, nausea

4,5-Dichloro-2-octyl-2H-	isothiazol	3-one				
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes
	nt					
Acute toxicity, by oral route:	ATE	567	mg/kg			
Acute toxicity, by inhalation:	ATE	0,16	mg/l/4h			Dust, Mist
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosio n)	Corrosive
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Skin Sens. 1A
Aspiration hazard:						No
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAEL	20	mg/kg	Rat		28d
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	LOAEL	100	mg/kg	Rat		28d

11.2. Information on other hazards

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Toxicity / effect	Endpoi nt	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.

SECTION 12: Ecological information

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

4F-Topcoat walk-o					× *	,	
Art.: 9095836							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to							n.d.a.
fish:							
12.1. Toxicity to							n.d.a.
daphnia:							
12.1. Toxicity to							n.d.a.
algae:							
12.2. Persistence							n.d.a.
and degradability:							
12.3.							n.d.a.
Bioaccumulative							
potential:							
12.4. Mobility in							n.d.a.
soil:							
12.5. Results of							n.d.a.
PBT and vPvB							
assessment							
12.6. Endocrine							Does not
disrupting							apply to
properties:							mixtures.
12.7. Other							No
adverse effects:							information
							available on
							other
							adverse
							effects on
							the
							environmen

Reaction mass of e	Reaction mass of ethylbenzene and m-xylene and p-xylene									
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes			



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12.5. Results of PBT and vPvB assessment						No PBT substance, No vPvB substance
Toxicity to annelids:	NOEC/NO EL	14d	16	mg/kg dw		

Titanium dioxide (in powder for	m conta	ining 1 %	or more	of particles with	aerodynamic di	ameter <= 10
μm)							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to	LC50	96h	>100	mg/l	Oncorhynchus	OECD 203	
fish:					mykiss	(Fish, Acute	
						Toxicity Test)	
12.1. Toxicity to	LC50	48h	>100	mg/l	Daphnia	OECD 202	
daphnia:					magna	(Daphnia sp.	
						Acute	
						Immobilisatio	
						n Test)	
12.1. Toxicity to	EC50	72h	16	mg/l	Pseudokirchne	U.S. EPA-	
algae:				Ū	riella	600/9-78-018	
0					subcapitata		
12.2. Persistence							Not relevant
and degradability:							for inorganic
с ,							substances.
12.3.	BCF	42d	9,6				Not to be
Bioaccumulative							expected
potential:							
12.3.	BCF	14d	19-				Oncorhynchu
Bioaccumulative			352				s mykiss
potential:							-
12.4. Mobility in							Negative
soil:							
12.5. Results of							No PBT
PBT and vPvB							substance,
assessment							No vPvB
							substance
Toxicity to			>5000	mg/l	Escherichia		
bacteria:				-	coli		
Toxicity to	LC0	24h	>1000	mg/l	Pseudomonas		
bacteria:			0	-	fluorescens		
Toxicity to	NOEC/NO		>1000	mg/kg	Eisenia		
annelids:	EL				foetida		
Water solubility:							Insoluble20°
·							C

2-methoxy-1-methylethyl acetate											
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes				
12.1. Toxicity to	LC50	96h	100-	mg/l	Oncorhynchus	OECD 203					
fish:			180	-	mykiss	(Fish, Acute					
						Toxicity Test)					



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10.1 Torrigity to	EC50	48h	> 500	m ~ /1	Danhaia	OECD 202	
12.1. Toxicity to	EC30	4811	>500	mg/l	Daphnia		
daphnia:					magna	(Daphnia sp.	
						Acute	
						Immobilisatio	
						n Test)	
12.1. Toxicity to	NOEC/NO	21d	>100	mg/l	Daphnia	OECD 211	
daphnia:	EL				magna	(Daphnia	
					C	magna	
						Reproduction	
						Test)	
12.5. Results of							No PBT
PBT and vPvB							substance,
assessment							No vPvB
							substance
Toxicity to	EC20	30min	>1000	mg/l	activated	OECD 209	
bacteria:				-	sludge	(Activated	
					C .	Sludge,	
						Respiration	
						Inhibition	
						Test (Carbon	
						and	
						Ammonium	
						Oxidation))	

1,6-hexanediyl-bis	1,6-hexanediyl-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate										
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes				
12.1. Toxicity to	LC50	96h	316	mg/l	Brachydanio	OECD 203					
fish:					rerio	(Fish, Acute					
						Toxicity Test)					
12.1. Toxicity to	EC50	48h	193	mg/l	Daphnia	OECD 202					
daphnia:					magna	(Daphnia sp.					
						Acute					
						Immobilisatio					
						n Test)					
12.1. Toxicity to	EC50		1770	mg/l							
algae:											
12.1. Toxicity to	IC50	72h	43	mg/l	Desmodesmus	OECD 201					
algae:					subspicatus	(Alga,					
						Growth					
						Inhibition					
						Test)					
12.2. Persistence		28d	43	%							
and degradability:											
Water solubility:							Soluble				

Addition reaction j anhydride	products of co	onjugated	l sunflow	ver-oil fatt	y acids and tall-	oil fatty acids wit	th maleic			
Toxicity / effect Endpoint Time Value Unit Organism Test method Notes										



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12.2. Persistence and degradability: 12.3.	Log Pow	28d	40	%		OECD 301 F (Ready Biodegradabil ity - Manometric Respirometry Test)	Not readily biodegradabl e
Bioaccumulative potential:	Log Pow						
12.1. Toxicity to fish:	LL50	48h	>150	mg/l	Leuciscus idus	DIN 38412 T.15	
12.1. Toxicity to daphnia:	EL50	48h	>100	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisatio n Test)	
12.1. Toxicity to algae:	EL50	72h	>100	mg/l	Pseudokirchne riella subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
Toxicity to bacteria:	EC50	3h	>1000	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	
12.4. Mobility in soil:	Log Koc		<=3,2			OECD 121 (Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using HPLC)	

3-isocyanatomethy	3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate										
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes				
12.1. Toxicity to	LC50	48h	1,8	mg/l	Leuciscus idus						
fish:											
12.1. Toxicity to	EC50	48h	27	mg/l							
daphnia:											
12.1. Toxicity to	EC50	72h	118	mg/l	Scenedesmus						
algae:					subspicatus						



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12.2. Persistence		28d	62	%	OECD 301 E	Not readily
and degradability:					(Ready	biodegradabl
					Biodegradabil	e
					ity - Modified	
					OECD	
					Screening	
					Test)	
12.3.	Log Pow		4,75			A notable
Bioaccumulative						biological
potential:						accumulation
						potential
						has to be
						expected
						(LogPow >
						3).
12.4. Mobility in	Log Koc		36000			
soil:						
12.4. Mobility in	H (Henry)		0,000	atm*m		25°C
soil:			0657	3/mol		
Toxicity to	EC10	6h	554	mg/l		
bacteria:						

Maleic anhydride							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.2. Persistence		28d	> 61	%		OECD 302 B	Readily
and degradability:						(Inherent	biodegradabl
						Biodegradabil	e
						ity - Zahn-	
						Wellens/EMP	
						A Test)	
12.1. Toxicity to	LC50	96h	75	mg/l	Lepomis		EPA-660/3-
fish:					macrochirus		75-009
12.1. Toxicity to	LC50	96h	75	mg/l	Oncorhynchus		EPA-660/3-
fish:					mykiss		75-009
12.1. Toxicity to	EC50	48h	42,81	mg/l	Daphnia	OECD 202	
daphnia:					magna	(Daphnia sp.	
						Acute	
						Immobilisatio	
						n Test)	
12.1. Toxicity to	NOEC/NO	21d	10	mg/l	Daphnia		
daphnia:	EL				magna		
12.1. Toxicity to	EC50	72h	74,32	mg/l	Pseudokirchne	OECD 201	
algae:					riella	(Alga,	
					subcapitata	Growth	
						Inhibition	
						Test)	



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12.2. Persistence and degradability:		7d	98	%		OECD 301 E (Ready Biodegradabil ity - Modified OECD Screening Test)	Hydrolysis
12.3.	Log Pow		-2,61				Not to be
Bioaccumulative							expected
potential:							
12.4. Mobility in	Koc		1				Not to be
soil:							expected
12.5. Results of							No PBT
PBT and vPvB							substance,
assessment							No vPvB
							substance
Toxicity to	EC10	18h	44,6	mg/l	Pseudomonas	IUCLID	References
bacteria:					putida	Chem. Data	
						Sheet (ESIS)	

4,5-Dichloro-2-octyl-2H-isothiazol-3-one							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.2. Persistence							Readily
and degradability:							biodegradabl
							e
12.3.	BCF		750		Lepomis		
Bioaccumulative					macrochirus		
potential:							
12.3.	Log Pow		2,8				
Bioaccumulative							
potential:							
12.1. Toxicity to	LC50	96h	0,007	mg/l	Oncorhynchus		
fish:			8		mykiss		
12.1. Toxicity to	EC50	48h	0,009	mg/l	Daphnia		
daphnia:			7		magna		
12.1. Toxicity to	NOEC/NO	21d	0,000	mg/l	Daphnia		
daphnia:	EL		4		magna		
12.1. Toxicity to	NOEC/NO	72h	0,015	mg/l			
algae:	EL						
12.1. Toxicity to	EC50	72h	0,025	mg/l			
algae:							
12.5. Results of							No PBT
PBT and vPvB							substance,
assessment							No vPvB
							substance

SECTION 13: Disposal considerations

13.1 Waste treatment methods



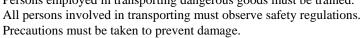
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For the substance / mixture / residual amounts

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 04 09 waste adhesives and sealants containing organic solvents or other hazardous substances Recommendation: Sewage disposal shall be discouraged. Pay attention to local and national official regulations. E.g. suitable incineration plant. E.g. dispose at suitable refuse site. For contaminated packing material Pay attention to local and national official regulations. Empty container completely. Uncontaminated packaging can be recycled. Dispose of packaging that cannot be cleaned in the same manner as the substance. Do not perforate, cut up or weld uncleaned container. Residues may present a risk of explosion.

SECTION 14: Transport information

General statements						
14.1. UN number or ID number: 1866						
Transport by road/by rail (ADR/RID)						
14.2. UN proper shipping name:						
UN 1866 RESIN SOLUTION						
14.3. Transport hazard class(es):	3					
14.4. Packing group:	III					
Classification code:	F1					
LQ:	5 L					
14.5. Environmental hazards:	Not applicable					
Tunnel restriction code:	E					
Transport by sea (IMDG-code)						
14.2. UN proper shipping name:						
RESIN SOLUTION						
14.3. Transport hazard class(es):	3					
14.4. Packing group:	III					
EmS: F-E, S-E						
Marine Pollutant:	n.a					
14.5. Environmental hazards:	Not applicable					
Transport by air (IATA)						
14.2. UN proper shipping name:						
Resin solution						
14.3. Transport hazard class(es): 3						
14.4. Packing group: III						
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.						



14.7. Maritime transport in bulk according to IMO instruments



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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)!

Regulation (EC) No 1907/2006, Annex XVII

Isophoronediisocyanate, homopolymer

3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate

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	Qualifying quantity
		(tonnes) of dangerous	(tonnes) of dangerous
		substances as referred to	substances as referred to
		in Article 3(10) for the	in Article 3(10) for the
		application of - Lower-	application of - Upper-
		tier requirements	tier requirements
P5c		5000	50000

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):

460 g/l

Treated goods as per Regulation (EU) No. 528/2012 must display specific information on the label.

Please note Article 58 paragraph (3) subparagraph 2 of Regulation (EU) No. 528/2012.

Approval of the biocidal active substance may mean that special conditions are required for marketing the treated goods.

These are indicated in the approval of the active substance.

Observe incident regulations.

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections:



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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)	Evaluation method used
No. 1272/2008 (CLP)	
Flam. Liq. 3, H226	Classification based on test data.
STOT RE 2, H373	Classification according to calculation procedure.
Eye Irrit. 2, H319	Classification according to calculation procedure.
STOT SE 3, H335	Classification according to calculation procedure.
Skin Irrit. 2, H315	Classification according to calculation procedure.
Skin Sens. 1, H317	Classification according to calculation procedure.
Asp. Tox. 1, H304	Classification according to calculation procedure.
Aquatic Chronic 3, H412	Classification according to calculation procedure.

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

H330 Fatal if inhaled.

H226 Flammable liquid and vapour.

H351 Suspected of causing cancer by inhalation.

H372 Causes damage to organs through prolonged or repeated exposure by inhalation.

H317 May cause an allergic skin reaction.

H314 Causes severe skin burns and eye damage.

H302 Harmful if swallowed.

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.

H331 Toxic if inhaled.

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

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.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

EUH071 Corrosive to the respiratory tract.

Flam. Liq. — Flammable liquid STOT RE — Specific target organ toxicity - repeated exposure

Eye Irrit. - Eye irritation

STOT SE - Specific target organ toxicity - single exposure - respiratory tract irritation

Skin Irrit. - Skin irritation

Skin Sens. - Skin sensitization

Asp. Tox. - Aspiration hazard

Aquatic Chronic - Hazardous to the aquatic environment - chronic

Acute Tox. - Acute toxicity - dermal



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Acute Tox. — Acute toxicity - inhalation Carc. — Carcinogenicity Resp. Sens. — Respiratory sensitization Acute Tox. — Acute toxicity - oral Skin Corr. — Skin corrosion Eye Dam. — Serious eye damage Aquatic Acute — Hazardous to the aquatic environment - acute

Key literature references and sources for data:

Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) as amended.
Guidelines for the preparation of safety data sheets as amended (ECHA).
Guidelines on labelling and packaging according to the Regulation (EG) Nr. 1272/2008 (CLP) as amended (ECHA).
Safety data sheets for the constituent substances.
ECHA Homepage - Information about chemicals.
GESTIS Substance Database (Germany).
German Environment Agency "Rigoletto" information site on substances that are hazardous to water (Germany).
EU Occupation Exposure Limits Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU)
2017/164, (EU) 2019/1831, each as amended.
National Lists of Occupational Exposure Limits for each country as amended.
Regulations on the transport of hazardous goods by road, rail, sea and air (ADR, RID, IMDG, IATA) as amended.

Any abbreviations and acronyms used in this document:

acc., acc. to according, according to

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

AOX Adsorbable organic halogen compounds

approx. approximately

Art., Art. no. Article number

ASTM ASTM International (American Society for Testing and Materials)

ATE Acute Toxicity Estimate

BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)

BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)

BCF Bioconcentration factor

BSEF The International Bromine Council

- 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



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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

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.