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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 10 kg Art.: 9095835

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:

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**Telephone number of the company in case of emergencies:** +49 (0) 700 / 24 112 112 (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.	3	H226-Flammable liquid and vapour.
STOT RE	2	H373-May cause damage to organs through prolonged or
		repeated exposure (organs of hearing).
Eye Irrit.	2	H319-Causes serious eye irritation.
STOT SE	3	H335-May cause respiratory irritation.
Skin Irrit.	2	H315-Causes skin irritation.



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Skin Sens. Asp. Tox. Aquatic Chronic

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.

## 2.2 Label elements

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

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1 3



Danger

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 %).

GB



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### 3.1 Substances

n.a.

3.2 Mixtures

5.2 WIXIUTES	
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	
<b>Registration number (REACH)</b>	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	
Classification according to Regulation (EC) 1272/2008	

Isophoronediisocyanate, homopolymer



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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	
Registration number (REACH)	



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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	Acute Tox. 2, H330
(CLP), M-factors	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) Allergic reaction possible. Ingestion:



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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** 

If leakage occurs, dam up.

Resolve leaks if this possible without risk.



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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**

Chemical Name Reaction mass of ethylbenzene and m-xylene and p-xylene	Content %:30-<40
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WEL-TWA: 220 mg/m3 (50 ppm)	WEL-STEL: 100 ppm (4	441 mg/m3
(WEL), 50 ppm (221 mg/m3) (EU)	(WEL), 100 ppm (442 mg/	/m3) (EU)
(Xylene), 100 ppm (441mg/m3) (WEL),	(Xylene), 125 ppm (552 n	ng/m3) (WEL),
100 ppm (442 mg/m3) (EU)	200 ppm (884 mg/m3) (EU	J)
(Ethylbenzene)	(Ethylbenzene)	
Monitoring procedures:	INSHT MTA/MA-030/A92	(Determination of aromatic
	•	ene, ethylbenzene, p-xylene, 1,2,4-
	trimethylbenzene) in air - Ch	
	chromatography) - 1992 - EU	J project BC/CEN/ENTR/000/2002-16
-	card 47-1 (2004)	
-		-, p-isomers) Ethylbenzene) - 1999
-	Draeger - Hydrocarbons 0,1%	
-	Draeger - Hydrocarbons 2/a	(81 03 581)
BMGV: 650 mmol methyl hippuric acid/mol creatinine in urine,		Other information: Sk (WEL)
post shift (Xylene, o-, m-, p- or mixed isom	ers) (BMGV) (Xylene)	(Xylene), Sk (WEL) (Ethylbenzene)
	- <b>-</b>	

Chemical Name Titanium dioxi		tide (in powder t	f	Content			
particles with			aerodynamic dia		%:10-<20		
V	VEL-TWA: 10 mg/m3 (to	WEL-STEL:					
d	ust), 4 mg/m3 (respirable d	ust)					
Monitoring procedures:							
E	MGV:				Other information	:	

<sup>(B)</sup> 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-ethoxyethyl acetate) in air - Charcoal tube				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)

<sup>(®)</sup> Chemical Name 3-is	ocyanatomethyl-3,5,5-trimethylcyclohe	xyl isocyanate	Content %:0,25-<0,5		
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-deri	e-derived diamine/mol creatinine in urine Other information: Sen (Isocyanates,				
(At the end of the period of exposure) all (as -NCO))					



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	Chemical Name	Maleic anhydride					Content %:0,001- <0,1
W	EL-TWA: 1 mg/m3	W	EL-STEL:	3 mg/m3			
M	onitoring procedures:						
BI	MGV:				Other information:	Sen	

<b>Reaction mass of ethy</b>	lbenzene and m-xylene a	nd 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 / Environmental compartment	Effect on health	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 /	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	44,6	mg/l
	Environment - sediment, freshwater		PNEC	0,334	mg/l
	Environment - sediment, marine		PNEC	0,033 4	mg/l
	Environment - soil		PNEC	0,041 5	mg/l
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	0,4	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	0,4	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.

\*\* = 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 controls8.2.1 Appropriate engineering controls



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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 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. Selection of materials derived from glove manufacturer's indications.



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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
Odour threshold:	Not determined
pH-value:	Mixture is non-soluble (in water).
Melting point/freezing point:	Not determined
Initial boiling point and boiling range:	130 °C
Flash point:	27-32 °C (closed cup, Reaction mass of ethylbenzene
	and m-xylene and p-xylene)
Evaporation rate:	Not determined
Flammability (solid, gas):	n.a.
Lower explosive limit:	0,8 Vol-%
Upper explosive limit:	Not determined
Vapour pressure:	Not determined
Vapour density (air $=$ 1):	Not determined
Density:	1,14 g/cm3 (20°C)
Bulk density:	n.a.
Solubility(ies):	Not determined
Water solubility:	Not miscible
Partition coefficient (n-octanol/water):	Not determined
Auto-ignition temperature:	488 °C (Ignition temperature Xylene)
Decomposition temperature:	Not determined
Viscosity:	>40 mPas (20°C, Dynamic viscosity)
Explosive properties:	Product is not explosive. When using: development of
	explosive vapour/air mixture possible.
Oxidising properties:	No
9.2 Other information	
Miscibility:	Not determined
Fat solubility / solvent:	Not determined
Conductivity:	Not determined
Surface tension:	Not determined
Solvents content:	460 g/l (Organic solvents )



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## **10.1 Reactivity**

The product has not been tested. **10.2 Chemical stability** Stable with proper storage and handling. **10.3 Possibility of hazardous reactions** No dangerous reactions are known. **10.4 Conditions to avoid** 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 toxicological effects**

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

4F-Topcoat walk-on gre	y 10 kg					
Art.: 9095835						
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	EndpoiValueUnitOrganismTest methodNotes						
nt line line line line line line line line								



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	LD50	2522	/1	D (		
Acute toxicity, by oral	LD50	3523	mg/kg	Rat	Regulation (EC)	
route:					440/2008 B.1	
					(ACUTE ORAL	
					TOXICITY)	
Acute toxicity, by	LC50	6350	ppm	Rat	Regulation (EC)	Vapours
inhalation:					440/2008 B.2	
					(ACUTE	
					TOXICITY	
					(INHALATION))	
Germ cell mutagenicity:					OECD 478	Negative,
					(Genetic	Analogous
					Toxicology -	conclusion
					Rodent dominant	
					Lethal Test)	
Germ cell mutagenicity:				Salmonella	OECD 471	Negative,
				typhimuri	(Bacterial Reverse	Analogous
				um	Mutation Test)	conclusion
Aspiration hazard:						Asp. Tox. 1

Titanium dioxide (in pov	wder form	containing	1 % or more	e of particles	with aerodynamic di	ameter <= 10
μm)		I				
Toxicity / effect	Endpoi nt	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 Dermal Irritation/Corrosio n)	Not irritant
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosio n)	Not irritant, Mechanical irritation possible.
Respiratory or skin sensitisation:				Mouse	OECD 429 (Skin Sensitisation - Local Lymph Node Assay)	Not sensitizising
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	No (skin contact)
Germ cell mutagenicity:				Mouse	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative



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

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:							



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Skin corrosion/irritation:		Rabbit	OECD 404 (Acute	Not irritant
Skill corrosion/irritation.		Rabbit	Dermal	Not initialit
			Irritation/Corrosio	
	 		n)	
Serious eye		Rabbit		Mild irritant
damage/irritation:				
Respiratory or skin		Guinea pig	OECD 406 (Skin	No (skin
sensitisation:			Sensitisation)	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

1,6-hexanediyl-bis(2-(2-(	1-ethylpen	tyl)-3-oxaz	olidinyl)ethy	yl)carbamate		
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



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Specific target organ	NOAEL	200	mg/kg	Rat	OECD 407
toxicity - repeated					(Repeated Dose
exposure (STOT-RE):					28-Day Oral
					Toxicity Study in
					Rodents)

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

3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate							
Toxicity / effect	Toxicity / effectEndpoiValueUnitOrganismTest methodNotes						
nt l							



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Acute toxicity, by oral route:	LD50	4825	mg/kg	Rat	
Acute toxicity, by dermal route:	LD50	>7000	mg/kg	Rat	
Skin corrosion/irritation:					Irritant
Serious eye damage/irritation:					Irritant
Respiratory or skin sensitisation:					Sensitising (inhalation and skin contact)
Symptoms:					asthmatic symptoms, ataxia, breathing difficulties, respiratory distress, eyes, reddened, coughing, mucous membrane irritation, trembling
Specific target organ toxicity - single exposure (STOT-SE), inhalative:					Irritation of the respiratory tract

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



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



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Specific target organ	LOAEL	100	mg/kg	Rat	28d
toxicity - repeated exposure (STOT-RE),					
oral:					

## **SECTION 12: Ecological information**

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

4F-Topcoat walk-o	4F-Topcoat walk-on grey 10 kg										
Art.: 9095835											
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. Other							n.d.a.				
adverse effects:											

Reaction mass of et	Reaction mass of ethylbenzene and m-xylene and p-xylene										
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes				
12.5. Results of							No PBT				
PBT and vPvB							substance,				
assessment							No vPvB				
							substance				
Toxicity to	NOEC/NO	14d	16	mg/kg							
annelids:	EL			dw							

Titanium dioxide (	Titanium dioxide (in powder form containing 1 % or more of particles with aerodynamic diameter <= 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)					



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12.1. Toxicity to	LC50	48h	>100	mg/l	Daphnia	OECD 202	
daphnia:				8	magna	(Daphnia sp.	
1					U	Acute	
						Immobilisatio	
						n Test)	
12.1. Toxicity to	EC50	72h	16	mg/l	Pseudokirchne	U.S. EPA-	
algae:					riella	600/9-78-018	
					subcapitata		
12.2. Persistence							Not relevant
and degradability:							for inorganic
							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°
							С

2-methoxy-1-methy	ylethyl acetate	e					
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)	
12.1. Toxicity to	EC50	48h	>500	mg/l	Daphnia	OECD 202	
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	
						magna	
						Reproduction	
						Test)	
12.5. Results of							No PBT
PBT and vPvB							substance,
assessment							No vPvB
							substance



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Toxicity to	EC20	30min	>1000	mg/l	activated	OECD 209
bacteria:				_	sludge	(Activated
						Sludge,
						Respiration
						Inhibition
						Test (Carbon
						and
						Ammonium
						Oxidation))

1,6-hexanediyl-bis	(2-(2-(1-ethyl)	pentyl)-3-	-oxazolid	inyl)ethy	l)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 products of conjugated sunflower-oil fatty acids and tall-oil fatty acids with maleic anhydride										
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes			
12.2. Persistence		28d	40	%		OECD 301 F	Not readily			
and degradability:						(Ready	biodegradabl			
						Biodegradabil	e			
						ity -				
						Manometric				
						Respirometry				
						Test)				
12.3.	Log Pow		1							
Bioaccumulative potential:										
12.1. Toxicity to	LL50	48h	>150	mg/l	Leuciscus idus	DIN 38412				
fish:				-		T.15				
12.1. Toxicity to	EL50	48h	>100	mg/l	Daphnia	OECD 202				
daphnia:					magna	(Daphnia sp.				
						Acute				
						Immobilisatio				
						n Test)				



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	<b>FI 70</b>	701	100	/1	D 11'1	0500 001
12.1. Toxicity to	EL50	72h	>100	mg/l	Pseudokirchne	OECD 201
algae:					riella	(Alga,
					subcapitata	Growth
						Inhibition
						Test)
Toxicity to	EC50	3h	>1000	mg/l	activated	OECD 209
bacteria:					sludge	(Activated
					_	Sludge,
						Respiration
						Inhibition
						Test (Carbon
						and
						Ammonium
						Oxidation))
12.4. Mobility in	Log Koc		<=3,2			OECD 121
soil:						(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		
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 > 2)
	<b>x x</b>		2,6000				3).
12.4. Mobility in soil:	Log Koc		36000				



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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
12.1. Toxicity to	NOEC/NO	21d	10	mg/l	Daphnia		
daphnia:	EL				magna		
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	EC50	72h	74,32	mg/l	Pseudokirchne	OECD 201	
algae:					riella	(Alga,	
					subcapitata	Growth	
						Inhibition	
						Test)	
12.2. Persistence		7d	98	%		OECD 301 E	Hydrolysis
and degradability:						(Ready	
						Biodegradabil	
						ity - Modified	
						OECD	
						Screening	
						Test)	
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
	ECIO	1.01	11.0	/1			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:							



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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

#### 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:

Server and discussed at all the

Sewage disposal shall be discouraged. Pay attention to local and national official regulations.

Fay attention to local and national official regulation

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:	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





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	51
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 mu	st be trained.
All persons involved in transporting must observe safet	ty regulations.
Precautions must be taken to prevent damage.	
14.7. Transport in bulk according to Annex II of MA	ARPOL and the IBC Code
Freighted as packaged goods rather than in bulk, theref	ore 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



50000

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P5c

5000

460 g/l

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):

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:

3, 6, 9, 15

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.



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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. 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 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

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

according, according to acc., acc. 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 approximately approx. 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 body weight bw CAS Chemical Abstracts Service



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PNEC Predicted No Effect Concentration

ppm parts per million

PVC Polyvinylchloride

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

REACH-IT List-No. 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.