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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision date / version: 01.11.2021 / 0005
Replacing version dated / version: 03.09.2021 / 0004
Valid from: 01.11.2021
PDF print date: 01.11.2021
4F-Topcoat drive-on white 10 kg
Art.: 9095838

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 drive-on white 10 kg Art.: 9095838

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.	3	H226-Flammable liquid and vapour.
Acute Tox.	4	H332-Harmful if inhaled.
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.



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STOT SE	3	H335-May cause respiratory irritation.
Skin Irrit.	2	H315-Causes skin irritation.
Resp. Sens.	1	H334-May cause allergy or asthma symptoms or breathing difficulties if inhaled.
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)



Danger

H226-Flammable liquid and vapour. H332-Harmful if inhaled. 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. H334-May cause allergy or asthma symptoms or breathing difficulties if inhaled. 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. P304+P340-IF INHALED: Remove person to fresh air and keep comfortable for breathing. 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 %).



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The mixture does not contain any substance with endocrine disrupting properties (< 0,1 %).

SECTION 3: Composition/information on ingredients

3.1 Substances

n.a.

3.2 Mixtures

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 %	25-<35
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 %	15-<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



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CAS	140921-24-0
content %	3-<5
Classification according to Regulation (EC) 1272/2008	Skin Sens. 1, H317
(CLP), M-factors	

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

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 %	0,5-<1
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 %

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

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



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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)	
Index	613-335-00-8
EINECS, ELINCS, NLP, REACH-IT List-No.	264-843-8
CAS	64359-81-5
content %	0,0015-<0,0025
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



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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. In case of sensitivity, concentrations below the limit value may already result in asthmatic symptoms. 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



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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.

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.

No contact with products of this type in case of allergies, asthma und chronic respiratory tract disorders.

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.



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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

^(B) Chemical Name	Reaction mass	s of ethylbenzene and m-xy	ylene and p-xylene		Content %:25-<35	
WEL-TWA: 220 mg/m3 (5	50 mgg (mgg 50	WEL-STEL: 100 ppm	(441 mg/m3		70.23 <33	
(WEL), 50 ppm (221 mg/m3		(WEL), 100 ppm (442 m				
(Xylene), 100 ppm (441mg		(Xylene), 125 ppm (552				
100 ppm (442 mg/m3) (EU)		200 ppm (884 mg/m3) (I				
(Ethylbenzene)		(Ethylbenzene)				
Monitoring procedures:	2 (Determination of	aromati	с			
		nydrocarbons (benzene, tol			ne, 1,2,4-	
		rimethylbenzene) in air - (
		chromatography) - 1992 - l	EU project BC/CEN	/ENTR	/000/2002-16	
		card 47-1 (2004)				
		OSHA 1002 (Xylenes (o-,		lbenzen	e) - 1999	
		Draeger - Hydrocarbons 0,				
		Draeger - Hydrocarbons 2/		~ ~ ~		
		ol creatinine in urine,	Other information		WEL)	
post shift (Xylene, o-, m-, p-	or mixed isome	rs) (BMGV) (Xylene)	(Xylene), Sk (WI	EL) (Eth	iylbenzene)	
^(B) Chemical Name	Titanium diox	ide (in powder form conta	ining 1 % or more o	f	Content	
		aerodynamic diameter <=	10 µm)		%:15-<20	
WEL-TWA: 10 mg/m3 (to		WEL-STEL:				
dust), 4 mg/m3 (respirable d	ust)					
Monitoring procedures:	-		1			
BMGV:			Other information	:		
^(B) Chemical Name	2-methoxy-1-1	methylethyl acetate			Content %:3- <5	
WEL-TWA: 50 ppm (274	mg/m3)	WEL-STEL: 100 ppm	(548 mg/m3)			
(WEL), 50 ppm (275 mg/m3) (EU)	(WEL), 100 ppm (550 m				
Monitoring procedures:	1	INSHT MTA/MA-024/A92 (Determination of esters II (1-methoxy-				
		2-propyl acetate, 2-ethoxye			al tube	
		method / Gas chromatograp				
		BC/CEN/ENTR/000/2002-)		
		NIOSH 2554 (GLYCOL E				
	- (OSHA 99 (Propylene Glyc			,	
BMGV:			Other information	i: Sk (WEL)	
^(GB) Chemical Name	3-isocyanatom	nethyl-3,5,5-trimethylcyclo	ohexyl isocyanate		Content %:0,5-<1	
Chemical Name WEL-TWA: 0,02 mg/m3 (· ·	nethyl-3,5,5-trimethylcyclo WEL-STEL: 0,07 mg/	•••			



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Monitoring procedures:	ISO 16702 (Workplace air	ISO 16702 (Workplace air quality – determination of total				
	isocyanate groups in air us	ing 2-(1-methoxyphenylpip	erazine and			
	- liquid chromatography) - 2	007				
	MDHS 25/4 (Organic isoc	yanates in air – Laboratory 1	method using			
		nethoxyphenylpiperazine co				
		lvent desorption or into imp				
	•	nance liquid chromatograph	-			
		R/000/2002-16 card 56-3 (20				
	- NIOSH 5525 (ISOCYANA	ATES, TOTAL (MAP)) - 20	03			
	- OSHA PV2034 (Isophoror	e Diisocyanate (IPDI)) - 19	88			
BMGV: 1 µmol isocyanate-derive						
(At the end of the period of exposu		all (as -NCO))	• •			
	,					
®			Content			
	• • • • •		0/ 0.001			

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

Reaction mass of ethy	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 p µm)	owder form containing	1 % or more of par	ticles with a	aerodyna	mic diame	ter <= 10
Area of application	Exposure route /	Effect on health	Descript	Value	Unit	Note
	Environmental		or			
	compartment					
	Environment -		PNEC	0,184	mg/l	
	freshwater					
	Environment - marine		PNEC	0,018	mg/l	
				4		



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	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
	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-methyle	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	



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



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(10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.

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

(13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).

8.2 Exposure controls

8.2.1 Appropriate engineering controls

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

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

Applies only if maximum permissible exposure values are listed here.

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

These are specified by e.g. EN 14042.

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

8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

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

Eye/face protection:

Tight fitting protective goggles with side protection (EN 166).

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:



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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.

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	erues
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:	There is no information available on this parameter.
Flammability:	Flammable
Lower explosion limit:	0,7 Vol-%
Upper explosion limit:	7,5 Vol-%
Flash point:	35 °C
Auto-ignition temperature:	488 °C
Decomposition temperature:	There is no information available on this parameter.
pH:	Mixture is non-soluble (in water).
Kinematic viscosity:	There is no information available on this parameter.
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:	1,15 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:	450 g/l (Organic solvents)



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SECTION 10: Stability and reactivity

10.1 Reactivity
The product has not been tested.
10.2 Chemical stability
Stable with proper storage and handling.
10.3 Possibility of hazardous reactions
No dangerous reactions are known.
10.4 Conditions to avoid
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 drive-on white 10 kg						
Art.: 9095838 Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes
TOxicity / effect	nt	value	Omt	Organishi	Test methou	notes
Acute toxicity, by oral route:						n.d.a.
Acute toxicity, by dermal route:	ATE	2933	mg/kg			calculated value
Acute toxicity, by inhalation:	ATE	34,6	mg/l/4h			calculated value, Vapours
Acute toxicity, by inhalation:	ATE	3,26	mg/l/4h			calculated value, Aerosol
Skin corrosion/irritation:						n.d.a.
Serious eye damage/irritation:						n.d.a.
Respiratory or skin sensitisation:						n.d.a.
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Specific target organ toxicity - single exposure (STOT-SE):						n.d.a.
Specific target organ toxicity - repeated exposure (STOT-RE):						n.d.a.
Aspiration hazard:						Asp. Tox. 1



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Symptoms:

n.d.a.

Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	nt LD50	3523	mg/kg	Rat	Regulation (EC) 440/2008 B.1 (ACUTE ORAL TOXICITY)	
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

Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes
	nt					
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)



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Germ cell mutagenicity:				Mouse	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative
Germ cell mutagenicity:				Mammalia n	OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative
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-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:								



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Acute toxicity, by inhalation:	LC50	>23,8	mg/l/6h	Rat		
Acute toxicity, by inhalation:	LC50	35,7	mg/l/4h	Rat		Vapours
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosio n)	Not irritant
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-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate									
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes			
	nt								
Acute toxicity, by oral	LD50	>2000	mg/kg	Rat					
route:									
Acute toxicity, by	LD50	>2000	mg/kg	Rat					
dermal route:									
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Not irritant			
					Dermal				
					Irritation/Corrosio				
					n)				
Serious eye				Rabbit	OECD 405 (Acute	Not irritant			
damage/irritation:					Eye				
					Irritation/Corrosio				
					n)				
Respiratory or skin				Human	OECD 406 (Skin	Sensitising			
sensitisation:				being	Sensitisation)	(skin			
						contact)			



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Germ cell mutagenicity:					OECD 474	Negative
					(Mammalian	
					Erythrocyte	
					Micronucleus	
					Test)	
Germ cell mutagenicity:				Salmonella	OECD 471	Negative
				typhimuri	(Bacterial Reverse	
				um	Mutation Test)	
Specific target organ	NOAEL	200	mg/kg	Rat	OECD 407	
toxicity - repeated					(Repeated Dose	
exposure (STOT-RE):					28-Day Oral	
					Toxicity Study in	
					Rodents)	

3-isocyanatomethyl-3,5,5						
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
Serious eye						Irritant
damage/irritation:						
Respiratory or skin						Sensitising
sensitisation:						(inhalation
						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

Addition reaction products of conjugated sunflower-oil fatty acids and tall-oil fatty acids with maleic									
anhydride									
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes			
	nt								



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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)	

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



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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)
Respiratory or skin				Rat		Sensitising
sensitisation:						(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-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)			



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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

4F-Topcoat drive-on white 10 kg Art.: 9095838											
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes					
	nt										
Endocrine disrupting						Does not					
properties:						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 drive-o	4F-Topcoat drive-on white 10 kg										
Art.: 9095838											
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:											



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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
		environment.

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 (μm)	in powder for	rm conta	ining 1 %	or mor	e of particles with	aerodynamic di	ameter <= 10
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:					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 potential:			352				s mykiss
12.4. Mobility in soil:							Negative



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12.5. Results of PBT and vPvB assessment						No PBT substance, 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-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)						
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					
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(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)						



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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

3-isocyanatomethy	3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate												
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes						
12.1. Toxicity to fish:	LC50	48h	1,8	mg/l	Leuciscus idus								
12.1. Toxicity to daphnia:	EC50	48h	27	mg/l									
12.1. Toxicity to algae:	EC50	72h	118	mg/l	Scenedesmus subspicatus								
12.2. Persistence and degradability:		28d	62	%		OECD 301 E (Ready Biodegradabil ity - Modified OECD Screening Test)	Not readily biodegradabl e						
12.3. Bioaccumulative potential:	Log Pow		4,75				A notable biological accumulation potential has to be expected (LogPow > 3).						
12.4. Mobility in soil:	Log Koc		36000										
12.4. Mobility in soil:	H (Henry)		0,000 0657	atm*m 3/mol			25°C						
Toxicity to bacteria:	EC10	6h	554	mg/l									

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		



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12.2. Persistence and degradability:		28d	40	%		OECD 301 F (Ready	Not readily biodegradabl
and degradability.						Biodegradabil	e
						ity -	C
						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)	
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)	

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)	



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12.1. Toxicity to	LC50	96h	75	mg/l	Lepomis		EPA-660/3-
fish:					macrochirus		75-009
12.1. Toxicity to fish:	LC50	96h	75	mg/l	Oncorhynchus mykiss		EPA-660/3- 75-009
12.1. Toxicity to daphnia:	EC50	48h	42,81	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisatio n Test)	
12.1. Toxicity to daphnia:	NOEC/NO EL	21d	10	mg/l	Daphnia magna		
12.1. Toxicity to algae:	EC50	72h	74,32	mg/l	Pseudokirchne riella subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		7d	98	%		OECD 301 E (Ready Biodegradabil ity - Modified OECD Screening Test)	Hydrolysis
12.3. Bioaccumulative potential:	Log Pow		-2,61				Not to be expected
12.4. Mobility in soil:	Koc		1				Not to be expected
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Toxicity to bacteria:	EC10	18h	44,6	mg/l	Pseudomonas putida	IUCLID Chem. Data Sheet (ESIS)	References

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		



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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: 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		







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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 s	afety regulations.					
Precautions must be taken to prevent damage.						
14.7. Maritime transport in bulk according to IN	AO instruments					
Freighted as packaged goods rather than in bulk, therefore not applicable.						
Minimum amount regulations have not been taken into account.						
Danger code and packing code on request.						

Comply with special provisions.

SECTION 15: Regulatory information

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

Observe restrictions:

Comply with national regulations/laws governing the protection of young people at work (national implementation of the Directive 94/33/EC)! 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.



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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:

1-16

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.
Acute Tox. 4, H332	Classification based on toxicological analyses.
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.
Resp. Sens. 1, H334	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.



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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 Acute Tox. - Acute toxicity - inhalation 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 Resp. Sens. - Respiratory sensitization Skin Sens. — Skin sensitization Asp. Tox. - Aspiration hazard Aquatic Chronic - Hazardous to the aquatic environment - chronic Acute Tox. — Acute toxicity - dermal Carc. — Carcinogenicity 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:

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.



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MARPOL International Convention for the Prevention of Marine Pollution from Ships

n.a. not applicable

n.av. not available

n.c. not checked

n.d.a. no data available

NIOSH National Institute for Occupational Safety and Health (USA)

NLP No-longer-Polymer

NOEC, NOEL No Observed Effect Concentration/Level

OECD Organisation for Economic Co-operation and Development

org. organic

OSHA Occupational Safety and Health Administration (USA)

PBT persistent, bioaccumulative and toxic

PE Polyethylene

PNEC Predicted No Effect Concentration

ppm parts per million

PVC Polyvinylchloride

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.