



Page 1 of 30

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

Revision date / version: 13.11.2020 / 0002

Replacing version dated / version: 16.12.2019 / 0001

Valid from: 13.11.2020 PDF print date: 13.11.2020 4F-Topcoat walk-on white 10 kg

Art.: 9095832

# 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 white 10 kg

Art.: 9095832

# 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.





Page 2 of 30

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

Revision date / version: 13.11.2020 / 0002

Replacing version dated / version: 16.12.2019 / 0001

Valid from: 13.11.2020 PDF print date: 13.11.2020 4F-Topcoat walk-on white 10 kg

Art.: 9095832

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. 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.

#### Maleic anhydride

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

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

1, 6-hexane diyl-bis (2-(2-(1-ethyl pentyl)-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 %).

## **SECTION 3: Composition/information on ingredients**





Page 3 of 30

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

Revision date / version: 13.11.2020 / 0002

Replacing version dated / version: 16.12.2019 / 0001

Valid from: 13.11.2020 PDF print date: 13.11.2020 4F-Topcoat walk-on white 10 kg

Art.: 9095832

#### 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	905-562-9 (REACH-IT List-No.)
CAS	
content %	25-50
Classification according to Regulation (EC) 1272/2008	Flam. Liq. 3, H226
(CLP)	Asp. Tox. 1, H304
	Acute Tox. 4, H312
	Skin Irrit. 2, H315
	Eye Irrit. 2, H319
	Acute Tox. 4, H332
	STOT SE 3, H335
	STOT RE 2, H373 (organs of hearing)
	Aquatic Chronic 3, H412

Titanium dioxide (in powder form containing 1 % or more of particles with aerodynamic diameter $<=10~\mu m$ )	
Registration number (REACH)	
Index	022-006-002
EINECS, ELINCS, NLP	236-675-5
CAS	13463-67-7
content %	10-20
Classification according to Regulation (EC) 1272/2008	Carc. 2, H351 (as inhalation)
(CLP)	

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	203-603-9
CAS	108-65-6
content %	2,5-10
Classification according to Regulation (EC) 1272/2008	Flam. Liq. 3, H226
(CLP)	

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	411-700-4
CAS	140921-24-0
content %	2,5-10
Classification according to Regulation (EC) 1272/2008	Skin Sens. 1, H317
(CLP)	

Isophoronediisocyanate, homopolymer	
Registration number (REACH)	01-2119488734-24-XXXX





Page 4 of 30

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

Revision date / version: 13.11.2020 / 0002

Replacing version dated / version: 16.12.2019 / 0001

Valid from: 13.11.2020 PDF print date: 13.11.2020 4F-Topcoat walk-on white 10 kg

Index	
EINECS, ELINCS, NLP	931-312-3 (REACH-IT List-No.)
CAS	
content %	2,5-10
Classification according to Regulation (EC) 1272/2008	STOT SE 3, H335
(CLP)	Skin Sens. 1B, H317

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	
CAS	
content %	0,1-<1
Classification according to Regulation (EC) 1272/2008	Skin Irrit. 2, H315
(CLP)	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	223-861-6
CAS	4098-71-9
content %	0,1-<0,5
Classification according to Regulation (EC) 1272/2008	Acute Tox. 3, H331
(CLP)	Eye Irrit. 2, H319
	STOT SE 3, H335
	Skin Irrit. 2, H315
	Resp. Sens. 1, H334
	Skin Sens. 1, H317
	Aquatic Chronic 2, H411

Maleic anhydride	
Registration number (REACH)	01-2119472428-31-XXXX
Index	607-096-00-9
EINECS, ELINCS, NLP	203-571-6
CAS	108-31-6
content %	0,001-<0,1
Classification according to Regulation (EC) 1272/2008	Acute Tox. 4, H302
(CLP)	Skin Corr. 1B, H314
	Resp. Sens. 1, H334
	Eye Dam. 1, H318
	Skin Sens. 1A, H317
	STOT RE 1, H372 (respiratory system) (as
	inhalation)

4,5-Dichloro-2-octyl-2H-isothiazol-3-one	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP	264-843-8
CAS	64359-81-5
content %	0,0025-<0,025





Page 5 of 30

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

Revision date / version: 13.11.2020 / 0002

Replacing version dated / version: 16.12.2019 / 0001

Valid from: 13.11.2020 PDF print date: 13.11.2020 4F-Topcoat walk-on white 10 kg

Art.: 9095832

Classification according to Regulation (EC) 1272/2008	Acute Tox. 4, H302
(CLP)	Skin Corr. 1B, H314
	Skin Sens. 1, H317
	Eye Dam. 1, H318
	Acute Tox. 2, H330
	STOT SE 3, H335
	Aquatic Acute 1, H400 (M=100)
	Aquatic Chronic 1, H410 (M=10)

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

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

The substances named in this section are given with their actual, appropriate classification!

For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

## **SECTION 4: First aid measures**

# 4.1 Description of first aid measures

First-aiders should ensure they are protected!

Never pour anything into the mouth of an unconscious person!

#### Inhalation

Remove person from danger area.

Supply person with fresh air and consult doctor according to symptoms.

If the person is unconscious, place in a stable side position and consult a doctor.

# Skin contact

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:

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





Page 6 of 30

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

Revision date / version: 13.11.2020 / 0002

Replacing version dated / version: 16.12.2019 / 0001

Valid from: 13.11.2020 PDF print date: 13.11.2020 4F-Topcoat walk-on white 10 kg

Art.: 9095832

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

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

Keep unprotected persons away.

Ensure sufficient supply of air.

Remove possible causes of ignition - do not smoke.

Avoid contact with eyes or skin.

If applicable, caution - risk of slipping.

#### **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.





Page 7 of 30

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

Revision date / version: 13.11.2020 / 0002

Replacing version dated / version: 16.12.2019 / 0001

Valid from: 13.11.2020 PDF print date: 13.11.2020 4F-Topcoat walk-on white 10 kg

Art.: 9095832

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	s of ethylbenzene and m-xy	lene and p-xylene	Content %:25-50			
WEL-TWA: 220 mg/m3 (5	(0 ppm)	WEL-STEL: 100 ppm	(441 mg/m3				
(WEL), 50 ppm (221 mg/m3	) (EU)	(WEL), 100 ppm (442 m	g/m3) (EU)				
(Xylene), 100 ppm (441mg/	/m3) (WEL),	(Xylene), 125 ppm (552	mg/m3) (WEL),				
100 ppm (442 mg/m3) (EU)		200 ppm (884 mg/m3) (E	CU)				
(Ethylbenzene)		(Ethylbenzene)					
Monitoring procedures:	]	NSHT MTA/MA-030/A92	(Determination of arc	omatic			
	1	nydrocarbons (benzene, tol	uene, ethylbenzene, p-	-xylene, 1,2,4-			
	t	rimethylbenzene) in air - C	harcoal tube method /	Gas			
	(	chromatography) - 1992 - E	EU project BC/CEN/EI	NTR/000/2002-16			
	- (	eard 47-1 (2004)					
	- (	OSHA 1002 (Xylenes (o-, 1	n-, p-isomers) Ethylbe	enzene) - 1999			
	- ]	Draeger - Hydrocarbons 0,1	1%/c (81 03 571)				
- Draeger - Hydrocarbons 2/a (81 03 581)							
BMGV: 650 mmol methyl hippuric acid/mol creatinine in urine, Other information: Sk (WEL)							
post shift (Xylene, o-, m-, p-	or mixed isome	rs) (BMGV) (Xylene)	(Xylene), Sk (WEL)	) (Ethylbenzene)			





Page 8 of 30

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

Revision date / version: 13.11.2020 / 0002

Replacing version dated / version: 16.12.2019 / 0001

Valid from: 13.11.2020 PDF print date: 13.11.2020 4F-Topcoat walk-on white 10 kg

Chemical Name		tide (in powder form containaerodynamic diameter <=		f	Content %:10-20
WEL-TWA: 10 mg/m3 (to		WEL-STEL:	10 [111]		,0.110 <b>2</b> 0
dust), 4 mg/m3 (respirable du					
Monitoring procedures:					
BMGV:			Other information	:	
(B)					Content
Chemical Name	<u> </u>	methylethyl acetate			%:2,5-10
WEL-TWA: 50 ppm (274 p			(548 mg/m3)		
(WEL), 50 ppm (275 mg/m3		(WEL), 100 ppm (550 m			. /11
Monitoring procedures:		INSHT MTA/MA-024/A92			
		2-propyl acetate, 2-ethoxye			at tube
		method / Gas chromatograp			
		BC/CEN/ENTR/000/2002-		)	
		NIOSH 2554 (GLYCOL E	,	/ 4	1002
DMCV	-	OSHA 99 (Propylene Glyc			
BMGV:			Other information	: SK (	WEL)
©® Chemical Name	3-isocyanaton	nethyl-3,5,5-trimethylcyclo	hexyl isocyanate		Content %:0,1-<0,5
WEL-TWA: 0,02 mg/m3 (	Isocyanates,	WEL-STEL: 0,07 mg/1	m3 (Isocyanates,		
all (as -NCO))	•	all (as -NCO))	•		
Monitoring procedures:	]	ISO 16702 (Workplace air	quality - determina	tion of t	otal
	i	isocyanate groups in air usi	ing 2-(1-methoxyph	enylpip	erazine and
		liquid chromatography) - 2			
		MDHS 25/4 (Organic isocy			
		sampling either onto 2-(1-n			
		fibre filters followed by sol			
	;	analysis using high perforn	nance liquid chroma	tograph	y) - 2015 -
		EU project BC/CEN/ENTF			
		NIOSH 5525 (ISOCYANA			
		OSHA PV2034 (Isophoron			
		ne/mol creatinine in urine	Other information	: Sen	(Isocyanates,
(At the end of the period of e					
	exposure)		all (as -NCO))		
(B)	exposure)		all (as -NCO))		Content
	,	ride	all (as -NCO))		
(B)	exposure)  Maleic anhyd	ride	all (as -NCO))		Content %:0,001- <0,1
©® Chemical Name	,		all (as -NCO))		%:0,001-
(B)	,		all (as -NCO))		%:0,001-

Reaction mass of ethylbenzene and m-xylene and p-xylene										
Area of application	Exposure route /	Exposure route / Effect on health Descript Value								
	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									





Page 9 of 30

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

Revision date / version: 13.11.2020 / 0002

Replacing version dated / version: 16.12.2019 / 0001

Valid from: 13.11.2020 PDF print date: 13.11.2020 4F-Topcoat walk-on white 10 kg

	Environment - sediment, marine		PNEC	12,46	mg/kg
	Environment - soil		PNEC	2,31	mg/kg
	Environment - sewage treatment plant		PNEC	6,58	mg/l
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	221	mg/m3
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	442	mg/m3

Titanium dioxide (in μ μm)	oowder form containing	1 % or more of par	ticles with a	erodyna	mic diame	eter <= 10
Area of application	Exposure route / Environmental compartment	Effect on health	Descript or	Value	Unit	Note
	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	
	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	2-methoxy-1-methylethyl acetate									
Area of application	Exposure route /	Effect on health	Descript	Value	Unit	Note				
	Environmental		or							
	compartment									
	Environment -		PNEC	0,635	mg/l					
	freshwater									
	Environment -		PNEC	3,29	mg/kg					
	sediment, freshwater									
	Environment -		PNEC	0,329	mg/kg					
	sediment, marine									





Page 10 of 30

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

Revision date / version: 13.11.2020 / 0002

Replacing version dated / version: 16.12.2019 / 0001

Valid from: 13.11.2020 PDF print date: 13.11.2020 4F-Topcoat walk-on white 10 kg

	Environment - soil		PNEC	0,29	mg/kg
	Environment -		PNEC	100	mg/l
	sewage treatment				
	plant				
	Environment - marine		PNEC	0,063 5	mg/l
	Environment - water, sporadic		PNEC	6,35	mg/l
	(intermittent) release	T .	DNEL	22	/ 2
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 / Environmental compartment	Effect on health	Descript or	Value	Unit	Note
	Environment - freshwater		PNEC	0,042 81	mg/l	
	Environment - marine		PNEC	0,004 281	mg/l	
	Environment - water, sporadic (intermittent) release		PNEC	0,428 1	mg/l	
	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	





Page 11 of 30

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

Revision date / version: 13.11.2020 / 0002

Replacing version dated / version: 16.12.2019 / 0001

Valid from: 13.11.2020 PDF print date: 13.11.2020 4F-Topcoat walk-on white 10 kg

Art.: 9095832

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). (11) = Inhalable fraction (Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (Directive 2004/37/CE). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period).

(8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.

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

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

#### 8.2 Exposure controls

# 8.2.1 Appropriate engineering controls

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

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

Applies only if maximum permissible exposure values are listed here.

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

These are specified by e.g. EN 14042.

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

## 8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

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

## Eye/face protection:

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





Page 12 of 30

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

Revision date / version: 13.11.2020 / 0002

Replacing version dated / version: 16.12.2019 / 0001

Valid from: 13.11.2020 PDF print date: 13.11.2020 4F-Topcoat walk-on white 10 kg

Art.: 9095832

Skin protection - Hand protection:

Chemical resistant protective gloves (EN 374).

Recommended

Protective gloves in butyl rubber (EN 374).

Minimum layer thickness in mm:

>=0.5

Protective gloves made of fluorocarbon rubber (EN 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.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.

Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

#### 8.2.3 Environmental exposure controls

No information available at present.

# **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

Physical state: Liquid

Colour: According to specification

Odour: Characteristic
Odour threshold: Not determined





Page 13 of 30

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

Revision date / version: 13.11.2020 / 0002

Replacing version dated / version: 16.12.2019 / 0001

Valid from: 13.11.2020 PDF print date: 13.11.2020 4F-Topcoat walk-on white 10 kg

Art.: 9095832

pH-value: Not determined Melting point/freezing point: Not determined

Initial boiling point and boiling range: 130 °C

Flash point: 27 °C (closed cup) Evaporation rate: Not determined

Flammability (solid, gas):

Lower explosive limit:

Upper explosive limit:

Vapour pressure:

Vapour density (air = 1):

Density:

n.a.

0,8 Vol-%

Not determined

Not determined

1,14 g/cm3 (20°C)

Bulk density: n.a.

Solubility(ies):

Water solubility:

Partition coefficient (n-octanol/water):

Not determined

Not determined

Auto-ignition temperature: 488 °C (Ignition temperature Xylene)

Decomposition temperature: Not determined Viscosity: >40 mPas (20°C)

Explosive properties: Product is not explosive. When using: development of

No

explosive vapour/air mixture possible.

Oxidising properties:

9.2 Other information

Miscibility: Not determined
Fat solubility / solvent: Not determined
Conductivity: Not determined
Surface tension: Not determined
Solvents content: Not determined

# **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 toxicological effects

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





Page 14 of 30

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

Revision date / version: 13.11.2020 / 0002

Replacing version dated / version: 16.12.2019 / 0001

Valid from: 13.11.2020 PDF print date: 13.11.2020 4F-Topcoat walk-on white 10 kg

4F-Topcoat walk-on whi	ite 10 kg					
Art.: 9095832						
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 ethylbe	enzene and	m-xylene a	nd p-xylene	)		
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes
	nt					
Acute toxicity, by oral	LD50	3523	mg/kg	Rat	Regulation (EC)	
route:					440/2008 B.1	
					(ACUTE ORAL	
					TOXICITY)	
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





Page 15 of 30

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

Revision date / version: 13.11.2020 / 0002

Replacing version dated / version: 16.12.2019 / 0001

Valid from: 13.11.2020 PDF print date: 13.11.2020 4F-Topcoat walk-on white 10 kg

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
Germ cell mutagenicity:				Salmonella typhimuri um	(Ames-Test)	Negative
Germ cell mutagenicity:					OECD 473 (In Vitro Mammalian Chromosome Aberration 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.





Page 16 of 30

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

Revision date / version: 13.11.2020 / 0002

Replacing version dated / version: 16.12.2019 / 0001

Valid from: 13.11.2020 PDF print date: 13.11.2020 4F-Topcoat walk-on white 10 kg

Specific target organ toxicity - single					Not irritant (respiratory
exposure (STOT-SE):					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/	Rat	90d
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAEC	10	mg/m3	Rat	90d

2-methoxy-1-methylethy	l acetate					
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes
	nt			_		
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rabbit	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rat		
Acute toxicity, by inhalation:	LC50	>23,8	mg/l/6h	Rat		
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosio n)	Not irritant
Serious eye damage/irritation:				Rabbit		Mild irritant
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	No (skin contact)
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	No indications of such an effect.





Page 17 of 30

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

Revision date / version: 13.11.2020 / 0002

Replacing version dated / version: 16.12.2019 / 0001

Valid from: 13.11.2020 PDF print date: 13.11.2020 4F-Topcoat walk-on white 10 kg

Symptoms:		respiratory distress, drowsiness, unconsciousn ess,
		vomiting, headaches,
		mucous
		membrane irritation,
		dizziness,
		nausea

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

Addition reaction products of conjugated sunflower-oil fatty acids and tall-oil fatty acids with maleic							
anhydride							
Toxicity / effect							
	nt						





Page 18 of 30

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

Revision date / version: 13.11.2020 / 0002

Replacing version dated / version: 16.12.2019 / 0001

Valid from: 13.11.2020 PDF print date: 13.11.2020 4F-Topcoat walk-on white 10 kg

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	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:								





Page 19 of 30

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

Revision date / version: 13.11.2020 / 0002

Replacing version dated / version: 16.12.2019 / 0001

Valid from: 13.11.2020 PDF print date: 13.11.2020 4F-Topcoat walk-on white 10 kg

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

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)
Respiratory or skin				Rat		Sensitising
sensitisation:						(inhalation
Germ cell mutagenicity:					bacterial	References
						Negative
Carcinogenicity:	NOAEL	>100	mg/kg	Rat		oral
			bw/d			
Reproductive toxicity:	NOAEC	650	mg/kg	Rat		
			bw/d			





Page 20 of 30

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

Revision date / version: 13.11.2020 / 0002

Replacing version dated / version: 16.12.2019 / 0001

Valid from: 13.11.2020 PDF print date: 13.11.2020 4F-Topcoat walk-on white 10 kg

Art.: 9095832

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 nt	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	1636	mg/kg	Rat		
Acute toxicity, by inhalation:	LC50	0,26	mg/l/4h	Rat		Mist
Respiratory or skin sensitisation:				Guinea pig		Sensitising (skin contact)
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

# **SECTION 12: Ecological information**

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

4F-Topcoat walk-on white 10 kg								
Art.: 9095832								
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes	





Page 21 of 30

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

Revision date / version: 13.11.2020 / 0002

Replacing version dated / version: 16.12.2019 / 0001

Valid from: 13.11.2020 PDF print date: 13.11.2020 4F-Topcoat walk-on white 10 kg

12.1. Toxicity to		n.d.a.
fish:		ii.d.d.
12.1. Toxicity to		n.d.a.
		n.a.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 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 (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)				
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			352				s mykiss			
potential:										





Page 22 of 30

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

Revision date / version: 13.11.2020 / 0002

Replacing version dated / version: 16.12.2019 / 0001

Valid from: 13.11.2020 PDF print date: 13.11.2020 4F-Topcoat walk-on white 10 kg

12.4. Mobility in soil:						Negative
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°
						C

2-methoxy-1-methy	ylethyl acetato	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
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-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)				





Page 23 of 30

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

Revision date / version: 13.11.2020 / 0002

Replacing version dated / version: 16.12.2019 / 0001

Valid from: 13.11.2020 PDF print date: 13.11.2020 4F-Topcoat walk-on white 10 kg

12.1. Toxicity to daphnia:	EC50	48h	193	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisatio n Test)	
12.1. Toxicity to algae:	EC50		1770	mg/l			
12.1. Toxicity to algae:	IC50	72h	43	mg/l	Desmodesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		28d	43	%			
Water solubility:							Soluble

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:		101				T.15	
12.1. Toxicity to	EL50	48h	>100	mg/l	Daphnia	OECD 202	
daphnia:					magna	(Daphnia sp.	
						Acute	
						Immobilisatio	
10.1 T::-:	EL50	72h	>100	/1	Pseudokirchne	n Test) OECD 201	
12.1. Toxicity to	ELSU	/2n	>100	mg/l			
algae:					riella	(Alga, Growth	
					subcapitata	Inhibition	
						Test)	
Toxicity to	EC50	3h	>1000	mg/l	activated	OECD 209	
bacteria:	LC30	311	/1000	IIIg/I	sludge	(Activated	
oucteria.					sidage	Sludge,	
						Respiration	
						Inhibition	
						Test (Carbon	
						and	
						Ammonium	
						Oxidation))	





Page 24 of 30

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

Revision date / version: 13.11.2020 / 0002

Replacing version dated / version: 16.12.2019 / 0001

Valid from: 13.11.2020 PDF print date: 13.11.2020 4F-Topcoat walk-on white 10 kg

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	1-3,5,5-trimet	hylcyclol	hexyl isoc	cyanate			
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			1681)	A notable
Bioaccumulative	Log I ow		7,73				biological
potential:							accumulation
potentiar.							potential
							has to be
							expected
							(LogPow >
							3).
12.4. Mobility in	Log Koc		36000				
soil:							
12.4. Mobility in	H (Henry)		0,000	atm*m			25°C
soil:			0657	3/mol			
Toxicity to	EC10	6h	554	mg/l			
bacteria:							

Maleic anhydride							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to	LC50	96h	75	mg/l	Oncorhynchus		
fish:					mykiss		
12.1. Toxicity to	EC50	48h	42,81	mg/l	Daphnia		
daphnia:					magna		
12.1. Toxicity to	EC50	72h	74,32	mg/l	Pseudokirchne		
algae:					riella		
					subcapitata		





Page 25 of 30

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

Revision date / version: 13.11.2020 / 0002

Replacing version dated / version: 16.12.2019 / 0001

Valid from: 13.11.2020 PDF print date: 13.11.2020 4F-Topcoat walk-on white 10 kg

Art.: 9095832

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 potential:					macrochirus		
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**





Page 26 of 30

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

Revision date / version: 13.11.2020 / 0002

Replacing version dated / version: 16.12.2019 / 0001

Valid from: 13.11.2020 PDF print date: 13.11.2020 4F-Topcoat walk-on white 10 kg

Art.: 9095832

#### 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:	1866

#### Transport by road/by rail (ADR/RID)

14.2. UN proper shipping name:

UN 1866 RESIN SOLUTION
14.3. Transport hazard class(es):
14.4. Packing group:
III

Classification code: F1 LQ: 5 L

14.5. Environmental hazards: Not applicable

Tunnel restriction code:

# Transport by sea (IMDG-code)

14.2. UN proper shipping name:

**RESIN SOLUTION** 

14.3. Transport hazard class(es):314.4. Packing group:IIIEmS:F-E, S-EMarine Pollutant:n.a

14.5. Environmental hazards: Not applicable

### **Transport by air (IATA)**

14.2. UN proper shipping name:

Resin solution

14.3. Transport hazard class(es): 3
14.4. Packing group: III

14.5. Environmental hazards: Not applicable

# 14.6. Special precautions for user

Persons employed in transporting dangerous goods must be trained.

All persons involved in transporting must observe safety regulations.

Precautions must be taken to prevent damage.

# 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code











Page 27 of 30

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

Revision date / version: 13.11.2020 / 0002

Replacing version dated / version: 16.12.2019 / 0001

Valid from: 13.11.2020 PDF print date: 13.11.2020 4F-Topcoat walk-on white 10 kg

Art.: 9095832

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 maternity protection (national implementation of the Directive 92/85/EEC)!

Regulation (EC) No 1907/2006, Annex XVII

Isophoronediisocyanate, homopolymer

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

Comply with trade association/occupational health regulations.

Directive 2012/18/EU ("Seveso III"), Annex I, Part 1 - The following categories apply to this product (others may also need to be considered according to storage, handling etc.):

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

The Notes to Annex 1 of Directive 2012/18/EU, in particular those named in the tables here and notes 1-6, must be taken into account when assigning categories and qualifying quantities.

Directive 2010/75/EU (VOC):

460 g/l

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

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

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

These are indicated in the approval of the active substance.

Observe incident regulations.

# 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

## **SECTION 16: Other information**

Revised sections:

2, 3, 11, 12, 15

Employee training in handling dangerous goods is required.

These details refer to the product as it is delivered.





Page 28 of 30

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

Revision date / version: 13.11.2020 / 0002

Replacing version dated / version: 16.12.2019 / 0001

Valid from: 13.11.2020 PDF print date: 13.11.2020 4F-Topcoat walk-on white 10 kg

Art.: 9095832

Employee instruction/training in handling hazardous materials is required.

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

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

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

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



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Page 29 of 30

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

Revision date / version: 13.11.2020 / 0002

Replacing version dated / version: 16.12.2019 / 0001

Valid from: 13.11.2020 PDF print date: 13.11.2020 4F-Topcoat walk-on white 10 kg

Art.: 9095832

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:

acc., acc. to according, according to

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

AOX Adsorbable organic halogen compounds

approx. approximately Art., Art. no. Article number

ASTM ASTM International (American Society for Testing and Materials)

ATE Acute Toxicity Estimate

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

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

BSEF The International Bromine Council

bw body weight

CAS Chemical Abstracts Service

CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)

CMR carcinogenic, mutagenic, reproductive toxic

DMEL Derived Minimum Effect Level

DNEL Derived No Effect Level

dw dry weight

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

EC European Community
ECHA European Chemicals Agency

EEC European Economic Community

EINECS European Inventory of Existing Commercial Chemical Substances

ELINCS European List of Notified Chemical Substances

EN European Norms

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

etc. et cetera EU European Union

EVAL Ethylene-vinyl alcohol copolymer

Fax. Fax number gen. general

GHS Globally Harmonized System of Classification and Labelling of Chemicals

GWP Global warming potential

IARC International Agency for Research on Cancer

IATA International Air Transport Association

IBC (Code) International Bulk Chemical (Code)

IMDG-code International Maritime Code for Dangerous Goods

incl. including, inclusive

IUCLID International Uniform Chemical Information Database





Page 30 of 30

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

Revision date / version: 13.11.2020 / 0002

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IUPACInternational Union for Pure Applied Chemistry

LC50 Lethal Concentration to 50 % of a test population

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

LQ Limited Quantities

MARPOL International Convention for the Prevention of Marine Pollution from Ships

n.a. not applicablen.av. not availablen.c. not checkedn.d.a. no data available

OECD Organisation for Economic Co-operation and Development

org. organic

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

UN RTDG United Nations Recommendations on the Transport of Dangerous Goods

VOC Volatile organic compounds

vPvB very persistent and very bioaccumulative

wwt 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.