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

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

1.1 Product identifier

4F-Sealing 1K-PUR 6 kg Art.: 9095827

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.			
Skin Irrit.	2	H315-Causes skin irritation.			



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Resp. Sens.	
Asp. Tox.	

Aquatic Chronic

H334-May cause allergy or asthma symptoms or breathing difficulties if inhaled. H304-May be fatal if swallowed and enters airways. H412-Harmful to aquatic life with long lasting effects.

# 2.2 Label elements

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

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1

3



H226-Flammable liquid and vapour. H373-May cause damage to organs through prolonged or repeated exposure (organs of hearing). H319-Causes serious eye irritation. H315-Causes skin irritation. H334-May cause allergy or asthma symptoms or breathing difficulties if inhaled. 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. P314-Get medical advice / attention if you feel unwell. P331-Do NOT induce vomiting.

EUH204-Contains isocyanates. May produce an allergic reaction.

m-tolylidene diisocyanate 4,5-Dichloro-2-octyl-2H-isothiazol-3-one Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics Reaction mass of ethylbenzene and m-xylene and p-xylene

# 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**

**3.1 Substance**n.a.**3.2 Mixture** 



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Reaction mass of ethylbenzene and m-xylene and p-	Substance for which an EU exposure limit
xylene	value applies.
<b>Registration number (REACH)</b>	01-2119488216-32-XXXX
Index	
EINECS, ELINCS, NLP	905-562-9 (REACH-IT List-No.)
CAS	
content %	10-<25
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

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics,	
<2% aromatics	
Registration number (REACH)	01-2119463258-33-XXXX
Index	
EINECS, ELINCS, NLP	919-857-5 (REACH-IT List-No.)
CAS	
content %	0-2,5
Classification according to Regulation (EC) 1272/2008	Flam. Liq. 3, H226
(CLP)	Asp. Tox. 1, H304
	STOT SE 3, H336

m-tolylidene diisocyanate	
Registration number (REACH)	01-2119454791-34-XXXX
Index	615-006-00-4
EINECS, ELINCS, NLP	247-722-4
CAS	26471-62-5
content %	0,1-<1
Classification according to Regulation (EC) 1272/2008	Carc. 2, H351
(CLP)	Acute Tox. 1, H330
	Eye Irrit. 2, H319
	STOT SE 3, H335
	Skin Irrit. 2, H315
	Resp. Sens. 1, H334
	Skin Sens. 1, H317
	Aquatic Chronic 3, H412

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



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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)

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. If, for example, the note P is applied for a hydrocarbon then this has already been taken into account for the classification named here.

Quote: "Note P - The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7)."

Article 4 of the regulation (EC) no. 1272/2008 (CLP regulation) was also observed and taken into account for the classification named here.

# **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.

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

Ingestion:

Nausea



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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 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



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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.

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

Workplace exposure limit (WEL) of the total hydrocarbon solvent content of the mixture (RCP method according to EH40): 800 mg/m3

<sup>(68)</sup> Chemical Name	Reaction mass of ethylbenzene and m-xylene and p-xylene		Content %:10-<25
WEL-TWA: 220 mg/m3 (50	0 ppm)	WEL-STEL: 100 ppm (441 mg/m3	
(WEL), 50 ppm (221 mg/m3) (EU)		(WEL), 100 ppm (442 mg/m3) (EU)	
(Xylene), 100 ppm (441mg/m3) (WEL),		(Xylene), 125 ppm (552 mg/m3) (WEL),	
100 ppm (442 mg/m3) (EU)		200 ppm (884 mg/m3) (EU)	
(Ethylbenzene)		(Ethylbenzene)	



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Monitoring procedures:	- Draeger - Hydrocarbons 2/	a (81 03 581)	
Wolldoring procedures.	ē .	. ,	
	- Draeger - Hydrocarbons 0,		
	MTA/MA-030/A92 (Deter	mination of aromatic hydrocarbons	
(benzene, toluene, ethylbenzene, p-xylene, 1,2,4-trimethylbenzen			
in air - Charcoal tube method / Gas chromatography) - 1992 - EU			
	<ul> <li>project BC/CEN/ENTR/00</li> </ul>	0/2002-16 card 47-1 (2004)	
BMGV: 650 mmol methyl hippuric ad	cid/mol creatinine in urine,	Other information: Sk (WEL)	
post shift (Xylene, o-, m-, p- or mixed i	somers) (BMGV) (Xylene)	(Xylene), Sk (WEL) (Ethylbenzene)	

Chemical Name	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <29	ó	Content %:0-	
Chemical Name	aromatics		2,5	
WEL-TWA: 800 mg/m3	WEL-STEL:	-		
Monitoring procedures:	- Draeger - Hydrocarbons 2/a (81 03 581)			
	- Draeger - Hydrocarbons 0,1%/c (81 03 571)			
	- Compur - KITA-187 S (551 174)			
BMGV:	Other information	on: (	OEL acc. to	
	RCP-method, pa	ragrap	ohs 84-87, EH40)	

Chemical Name m-tolylidene diisocyanate				Content	
Chemical Name	m-toryndene c	insocyanate			%:0,1-<1
WEL-TWA: 0,02 mg/m3 (	Isocyanates,	WEL-STEL: 0,07 mg/r	n3 (Isocyanates,		
all (as -NCO))		all (as -NCO))			
Monitoring procedures:	-				
BMGV: 1 µmol isocyanate-derived diamine/mol creatinine in urine Other information:					(Isocyanates,
(At the end of the period of exposure) all (as -NCO))					-
Chemical Name	Titanium diox	ide			Content %:
= Ononnour r (unite					Content /0.
WEL-TWA: 10 mg/m3 (to	tal inhalable	WEL-STEL:			
dust), 4 mg/m3 (respirable dust)					
Monitoring procedures:					

Other information:	

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

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BMGV: ---



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Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics										
Area of application	Exposure route / Environmental compartment	Effect on health	Descript or	Value	Unit	Note				
Consumer	Human - oral	Long term, systemic effects	DNEL	300	mg/kg bw/day					
Consumer	Human - dermal	Long term, systemic effects	DNEL	300	mg/kg bw/day					
Consumer	Human - inhalation	Long term, systemic effects	DNEL	900	mg/m3					
Consumer	Human - dermal	Long term, systemic effects	DNEL	125	mg/kg bw/day					
Consumer	Human - inhalation	Long term, systemic effects	DNEL	185	mg/m3					
Consumer	Human - oral	Long term, systemic effects	DNEL	125	mg/kg bw/day					
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	300	mg/kg bw/day					
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	1500	mg/m3					
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	208	mg/kg bw/day					
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	871	mg/m3					

Titanium dioxide						
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		
	Environment - water,		PNEC	0,193	mg/l	
	sporadic					
	(intermittent) release					
	Environment -		PNEC	100	mg/l	
	sewage treatment					
	plant					
	Environment -		PNEC	1000	mg/kg	
	sediment, freshwater				dw	
	Environment -		PNEC	100	mg/kg	
	sediment, marine				dw	
	Environment - soil		PNEC	100	mg/kg	
					dw	
	Environment - oral		PNEC	1667	mg/kg	
	(animal feed)				feed	
Consumer	Human - oral	Long term,	DNEL	700	mg/kg	
		systemic effects				



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Workers / employees	Human - inhalation	Long term, local	DNEL	10	mg/m3	
		effects				

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 (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU).
|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.

# 8.2 Exposure controls8.2.1 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. BS EN 14042.

BS 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 374). Recommended Protective gloves in butyl rubber (EN 374). Minimum layer thickness in mm: >= 0,5 Safety 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.



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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
pH-value:	Not determined
Melting point/freezing point:	Not determined
Initial boiling point and boiling range:	130 °C
Flash point:	27 °C (Xylene)
Evaporation rate:	Not determined
Flammability (solid, gas):	n.a.
Lower explosive limit:	0,8 Vol-%
Upper explosive limit:	Not determined
Vapour pressure:	Not determined
Vapour density (air $=$ 1):	Not determined
Density:	1,39-1,41 g/cm3 (20°C)
Bulk density:	n.a.
Solubility(ies):	Not determined
Water solubility:	Not miscible



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Partition coefficient (n-octanol/water): Auto-ignition temperature: Decomposition temperature: Viscosity: Explosive properties:

Oxidising properties: 9.2 Other information Miscibility: Fat solubility / solvent: Conductivity: Surface tension: Solvents content: Not determined 488 °C (Ignition temperature Xylene) Not determined >90 mPas (20°C) Product is not explosive. When using: development of explosive vapour/air mixture possible. No

Not determined Not determined Not determined 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).

4F-Sealing 1K-PUR 6 kg	ç.					
Art.: 9095827						
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes
	nt					
Acute toxicity, by oral						n.d.a.
route:						
Acute toxicity, by	ATE	9434	mg/kg			calculated
dermal route:						value
Acute toxicity, by	ATE	35	mg/l/4h			calculated
inhalation:			-			value,
						Vapours
Skin corrosion/irritation:						n.d.a.
Serious eye						n.d.a.
damage/irritation:						



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Respiratory or skin	n.d.a.
sensitisation:	
Germ cell mutagenicity:	n.d.a.
Carcinogenicity:	n.d.a.
Reproductive toxicity:	n.d.a.
Specific target organ	n.d.a.
toxicity - single	
exposure (STOT-SE):	
Specific target organ	n.d.a.
toxicity - repeated	
exposure (STOT-RE):	
Aspiration hazard:	Asp. Tox. 1
Symptoms:	n.d.a.

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

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics										
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes				
	nt									
Acute toxicity, by oral	LD50	>5000	mg/kg	Rat	OECD 401 (Acute					
route:					Oral Toxicity)					
Acute toxicity, by	LD50	>5000	mg/kg	Rabbit	OECD 402 (Acute					
dermal route:					Dermal Toxicity)					
Acute toxicity, by	LD50	>18,5	mg/l/4h	Rat	OECD 403 (Acute					
inhalation:					Inhalation					
					Toxicity)					



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Skin corrosion/irritation:	Rabbit	OECD 404 (Acute Dermal Irritation/Corrosio	Not irritant, Repeated exposure
		n)	may cause skin dryness or cracking.
Serious eye damage/irritation:	Rabbit	OECD 405 (Acute Eye Irritation/Corrosio n)	Not irritant
Respiratory or skin sensitisation:	Guinea pig	OECD 406 (Skin Sensitisation)	No (skin contact)
Germ cell mutagenicity:		OECD 471 (Bacterial Reverse Mutation Test)	Negative, Analogous conclusion
Carcinogenicity:		OECD 453 (Combined Chronic Toxicity/Carcinoge nicity Studies)	Negative, Analogous conclusion
Reproductive toxicity:		OECD 414 (Prenatal Developmental Toxicity Study)	Negative, Analogous conclusion
Specific target organ toxicity - single exposure (STOT-SE):			May cause drowsiness or dizziness.
Aspiration hazard: Symptoms:			Yes unconsciousn ess, headaches, dizziness, discoloration of the skin, vomiting, diarrhoea
Specific target organ toxicity - repeated exposure (STOT-RE), oral:		OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)	Not to be expected

m-tolylidene diisocyanate									
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes			
	nt								
Acute toxicity, by oral	LD50	5800	mg/kg	Rat					
route:									



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Symptoms:			asthmatic
			symptoms,
			breathing
			difficulties,
			eyes,
			reddened,
			coughing,
			mucous
			membrane
			irritation

4,5-Dichloro-2-octyl-2H	-isothiazol	3-one				
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes
	nt					
Acute toxicity, by oral	LD50	1636	mg/kg	Rat		
route:	1.050	0.01		D.		
Acute toxicity, by inhalation:	LC50	0,26	mg/l/4h	Rat		Mist
Respiratory or skin				Guinea pig		Sensitising
sensitisation:						(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

Titanium dioxide						
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes
	nt					
Acute toxicity, by oral	LD50	>5000	mg/kg	Rat	OECD 425 (Acute	
route:					Oral Toxicity -	
					Up-and-Down	
					Procedure)	
Acute toxicity, by	LD50	>5000	mg/kg	Rabbit		
dermal route:						
Acute toxicity, by	LD50	>6,8	mg/l/4h	Rat		
inhalation:						
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Not irritant
					Dermal	
					Irritation/Corrosio	
					n)	
Serious eye				Rabbit	OECD 405 (Acute	Not irritant,
damage/irritation:					Eye	Mechanical
					Irritation/Corrosio	irritation
					n)	possible.



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Respiratory or skin				Mouse	OECD 429 (Skin	Not
sensitisation:					Sensitisation -	sensitizising
					Local Lymph	
					Node Assay)	
Respiratory or skin				Guinea pig	OECD 406 (Skin	Not
sensitisation:					Sensitisation)	sensitizising
Germ cell mutagenicity:				Salmonella	(Ames-Test)	Negative
Ç ,				typhimuri		
				um		
Germ cell mutagenicity:					OECD 473 (In	Negative
Ç ,					Vitro Mammalian	
					Chromosome	
					Aberration Test)	
Germ cell mutagenicity:					OECD 476 (In	Negative
Ç ,					Vitro Mammalian	
					Cell Gene	
					Mutation Test)	
Germ cell mutagenicity:					OECD 471	Negative
6.					(Bacterial Reverse	
					Mutation Test)	
Reproductive toxicity				Rat	OECD 414	No
(Developmental					(Prenatal	indications
toxicity):					Developmental	of such an
•					Toxicity Study)	effect.
Specific target organ						Not irritant
toxicity - single						(respiratory
exposure (STOT-SE):						tract).
Symptoms:						coughing
Specific target organ	NOAEL	3500	mg/kg/	Rat		90d
toxicity - repeated			d			
exposure (STOT-RE),						
oral:						
Specific target organ	NOAEC	10	mg/m3	Rat		90d
toxicity - repeated						
exposure (STOT-RE),						
inhalat.:						

# **SECTION 12: Ecological information**

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

4F-Sealing 1K-PUR 6 kg										
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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:										



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12.2. Persistence				n.d.a.
and degradability:				11.u.u.
				1
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					

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics											
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes				
12.1. Toxicity to fish:	NOELR	28d	0,13	mg/l	Oncorhynchus mykiss	QSAR					
12.1. Toxicity to daphnia:	EC50	48h	>1000	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisatio n Test)					
12.3. Bioaccumulative potential:			5-6,7				High				
12.1. Toxicity to fish:	LC50	96h	>1000	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)					
12.1. Toxicity to algae:	ErC50	72h	>1000	mg/l	Pseudokirchne riella subcapitata	OECD 201 (Alga, Growth Inhibition Test)					
12.1. Toxicity to algae:	EbC50	72h	>1000	mg/l	Pseudokirchne riella subcapitata	OECD 201 (Alga, Growth Inhibition Test)					



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12.1. Toxicity to	NOELR	72h	100	mg/l	Raphidocelis	OECD 201	
•	NUELK	/211	100	IIIg/1			
algae:					subcapitata	(Alga,	
						Growth	
						Inhibition	
						Test)	
12.2. Persistence		28d	80	%		OECD 301 F	Readily
and degradability:						(Ready	biodegradabl
						Biodegradabil	e
						ity -	
						Manometric	
						Respirometry	
						Test)	
12.1. Toxicity to	NOELR	72h	3	mg/l	Pseudokirchne	OECD 201	
algae:				-	riella	(Alga,	
C					subcapitata	Growth	
					1	Inhibition	
						Test)	
12.5. Results of						,	No PBT
PBT and vPvB							substance,
assessment							No vPvB
							substance

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

Titanium dioxide							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes



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12.1. Toxicity to	LC50	96h	>100	mg/l	Oncorhynchus	OECD 203	
fish:				U	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		
12.3.	BCF	14d	19-				Oncorhynchu
Bioaccumulative			352				s mykiss
potential:							
12.3.	BCF	42d	9,6				No
Bioaccumulative							
potential:							
12.4. Mobility in							Negative
soil:							
12.5. Results of							No PBT
PBT and vPvB							substance,
assessment							No vPvB
							substance
Toxicity to			>5000	mg/l	Escherichia		
bacteria:					coli		
Toxicity to	LC0	24h	>1000	mg/l	Pseudomonas		
bacteria:			0		fluorescens		
Toxicity to	NOEC/NO		>1000	mg/kg	Eisenia		
annelids:	EL				foetida		
Water solubility:							Insoluble20°
							С

# **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.



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Dispose of packaging that cannot be cleaned in the same manner as the substance. Do not perforate, cut up or weld uncleaned container. Residues may present a risk of explosion.

# **SECTION 14: Transport information**

General statements		
14.1. UN number:	1866	
Transport by road/by rail (ADR/RID)		
14.2. UN proper shipping name:		
UN 1866 RESIN SOLUTION		
14.3. Transport hazard class(es):	3	<b>•</b>
14.4. Packing group:	III	
Classification code:	F1	
LQ:	5 L	
14.5. Environmental hazards:	Not applicable	
Tunnel restriction code:	E	
Transport by sea (IMDG-code)		
14.2. UN proper shipping name:		
RESIN SOLUTION		
14.3. Transport hazard class(es):	3	
14.4. Packing group:	III	-
EmS:	F-E, S-E	
Marine Pollutant:	n.a	
14.5. Environmental hazards:	Not applicable	
Transport by air (IATA)		
14.2. UN proper shipping name:		
Resin solution		
14.3. Transport hazard class(es):	3	<b></b>
14.4. Packing group:	III	-
14.5. Environmental hazards:	Not applicable	
14.6. Special precautions for user	**	
Persons employed in transporting dangerous goods mus	st be trained.	
All persons involved in transporting must observe safet	y regulations.	
Precautions must be taken to prevent damage.		
14.7. Transport in bulk according to Annex II of MA	ARPOL and the IBC Code	
Freighted as packaged goods rather than in bulk, theref	ore not applicable.	
Minimum amount regulations have not been taken into		
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)! Comply with trade association/occupational health regulations.



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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):

249 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:

Employee training in handling dangerous goods is required. These details refer to the product as it is delivered. Employee instruction/training in handling hazardous materials is required.

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

Classification in accordance with regulation (EC)	Evaluation method used	
No. 1272/2008 (CLP)		
Flam. Liq. 3, H226	Classification based on test data.	
STOT RE 2, H373	Classification according to calculation procedure.	
Eye Irrit. 2, H319	Classification according to calculation procedure.	
Skin Irrit. 2, H315	Classification according to calculation procedure.	
Resp. Sens. 1, H334	Classification according to calculation procedure.	
Asp. Tox. 1, H304	Classification according to calculation procedure.	
Aquatic Chronic 3, H412	Classification according to calculation procedure.	

n.a.

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.



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H226 Flammable liquid and vapour. 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. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H332 Harmful if inhaled. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H351 Suspected of causing cancer. 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. 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 Skin Irrit. - Skin irritation Resp. Sens. - Respiratory sensitization Asp. Tox. — Aspiration hazard Aquatic Chronic - Hazardous to the aquatic environment - chronic Acute Tox. — Acute toxicity - dermal Acute Tox. - Acute toxicity - inhalation STOT SE — Specific target organ toxicity - single exposure - respiratory tract irritation STOT SE - Specific target organ toxicity - single exposure - narcotic effects Carc. — Carcinogenicity Skin Sens. - Skin sensitization Acute Tox. - Acute toxicity - oral Skin Corr. — Skin corrosion Eye Dam. — Serious eye damage Aquatic Acute - Hazardous to the aquatic environment - acute

# Any abbreviations and acronyms used in this document:

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)

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



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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 United States Environmental Protection Agency (United States of America) EPA etc. et cetera EU European Union EVAL Ethylene-vinyl alcohol copolymer Fax. Fax number general gen. 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 including, inclusive incl. International Uniform Chemical Information Database IUCLID LO Limited Ouantities International Convention for the Prevention of Marine Pollution from Ships MARPOL not applicable n.a. not available n.av. not checked n.c. n.d.a. no data available OECD Organisation for Economic Co-operation and Development org. organic PBT persistent, bioaccumulative and toxic Polyethylene PE PNEC Predicted No Effect Concentration parts per million ppm 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.



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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 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.