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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 15 kg Art.: 9095825

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

1.3 Details of the supplier of the safety data sheet

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

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

1.4 Emergency telephone number Emergency information services / official advisory body:

Telephone number of the company in case of emergencies: +49 (0) 700 / 24 112 112 (BRC) +1 872 5888271 (BRC)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Classification according to Regulation (EC) 1272/2008 (CLP) Hazard class Hazard category Hazard statement Flam. Liq. H226-Flammable liquid and vapour. 3 STOT RE 2 H373-May cause damage to organs through prolonged or repeated exposure (organs of hearing). Eve Irrit. 2 H319-Causes serious eye irritation. Skin Irrit. 2 H315-Causes skin irritation.



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Resp. Sens.	1	H334-May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin Sens.	1	H317-May cause an allergic skin reaction.
Asp. Tox.	1	H304-May be fatal if swallowed and enters airways.
Aquatic Chronic	3	H412-Harmful to aquatic life with long lasting effects.

2.2 Label elements

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



Danger

H226-Flammable liquid and vapour. 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. H317-May cause an allergic skin reaction. H304-May be fatal if swallowed and enters airways. H412-Harmful to aquatic life with long lasting effects.

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

P301+P310-IF SWALLOWED: Immediately call a POISON CENTER / doctor. P304+P340-IF INHALED: Remove person to fresh air and keep comfortable for breathing. P314-Get medical advice / attention if you feel unwell. P331-Do NOT induce vomiting.

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

As from 24 August 2023 adequate training is required before industrial or professional use. m-tolylidene diisocyanate 4,5-Dichloro-2-octyl-2H-isothiazol-3-one

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 %).

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

Dangerous vapours heavier than air.

In case of spreading near the ground, flashback to distance sources of ignition is possible.



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SECTION 3: Composition/information on ingredients

n.a. 3 2 Mixtures

3.2 Mixtures	
Reaction mass of ethylbenzene and m-xylene and p-	Substance for which an EU exposure limit
xylene	value applies.
Registration number (REACH)	01-2119488216-32-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	905-562-9
CAS	
content %	15-<20
Classification according to Regulation (EC) 1272/2008	Flam. Liq. 3, H226
(CLP), M-factors	Acute Tox. 4, H312
	Acute Tox. 4, H332
	Skin Irrit. 2, H315
	Eye Irrit. 2, H319
	STOT SE 3, H335
	STOT RE 2, H373 (organs of hearing)
	Asp. Tox. 1, H304
	Aquatic Chronic 3, H412

Titanium dioxide (in powder form containing 1 % or	
more of particles with aerodynamic diameter <= 10 μm)	
Registration number (REACH)	
Index	022-006-002
EINECS, ELINCS, NLP, REACH-IT List-No.	236-675-5
CAS	13463-67-7
content %	2-<3
Classification according to Regulation (EC) 1272/2008	Carc. 2, H351 (as inhalation)
(CLP), M-factors	

m-tolylidene diisocyanate	
Registration number (REACH)	01-2119454791-34-XXXX
Index	615-006-00-4
EINECS, ELINCS, NLP, REACH-IT List-No.	247-722-4
CAS	26471-62-5
content %	0,1-<0,5
Classification according to Regulation (EC) 1272/2008	Acute Tox. 1, H330
(CLP), M-factors	Skin Irrit. 2, H315
	Eye Irrit. 2, H319
	Resp. Sens. 1, H334
	Skin Sens. 1, H317
	Carc. 2, H351
	STOT SE 3, H335
	Aquatic Chronic 3, H412
Specific Concentration Limits and ATE	Resp. Sens. 1, H334: >=0,1 %

4,5-Dichloro-2-octyl-2H-isothiazol-3-one	
Registration number (REACH)	
Index	613-335-00-8



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

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

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

SECTION 4: First aid measures

4.1 Description of first aid measures

First-aiders should ensure they are protected!

Never pour anything into the mouth of an unconscious person!

Inhalation

Remove person from danger area.

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

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

Skin contact

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

Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

Ingestion

Rinse the mouth thoroughly with water.

Do not induce vomiting. Consult doctor immediately.

Danger of aspiration.

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

4.2 Most important symptoms and effects, both acute and delayed

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

Watering eyes

Drying of the skin.

Dermatitis (skin inflammation)

Allergic reaction possible.

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



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

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Water jet spray/foam/CO2/dry extinguisher Unsuitable extinguishing media High volume water jet 5.2 Special hazards arising from the substance or mixture In case of fire the following can develop: Oxides of carbon Toxic gases Formation of highly flammable vapour/air mixtures possible. Explosive vapour/air or gas/air mixtures. Danger of bursting (explosion) when heated Hydrocyanic acid (hydrogen cyanide) Oxides of nitrogen 5.3 Advice for firefighters For personal protective equipment see Section 8. In case of fire and/or explosion do not breathe fumes. Protective respirator with independent air supply. According to size of fire Full protection, if necessary. Cool container at risk with water. Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination.

Ensure sufficient ventilation, remove sources of ignition.

Avoid dust formation with solid or powder products.

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

Keep unprotected persons away.

Avoid contact with eyes or skin.

If applicable, caution - risk of slipping.

6.1.2 For emergency responders

See section 8 for suitable protective equipment and material specifications.



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6.2 Environmental precautions

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

SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1. 7.1 Precautions for safe handling 7.1.1 General recommendations Ensure good ventilation. Avoid inhalation of the vapours. Keep away from sources of ignition - Do not smoke. Take precautions against electrostatic charges. Avoid contact with eyes or skin. No contact with products of this type in case of allergies, asthma und chronic respiratory tract disorders. Eating, drinking, smoking, as well as food-storage, is prohibited in work-room. Observe directions on label and instructions for use. Use working methods according to operating instructions. 7.1.2 Notes on general hygiene measures at the workplace General hygiene measures for the handling of chemicals are applicable. Wash hands before breaks and at end of work. Keep away from food, drink and animal feedingstuffs. Remove contaminated clothing and protective equipment before entering areas in which food is consumed. 7.2 Conditions for safe storage, including any incompatibilities Keep out of access to unauthorised individuals. Store product closed and only in original packing. Not to be stored in gangways or stair wells. Observe special storage conditions.

Under all circumstances prevent penetration into the soil.

Do not store with flammable or self-igniting materials.

Protect from direct sunlight and warming.

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



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Chemical Name	Reaction mass	s of ethylbenzene and m-xy	lene and p-xylene		Content %:15-<20
WEL-TWA: 220 mg/m3 (5	50 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) (H	EU)		
(Ethylbenzene)		(Ethylbenzene)			
Monitoring procedures:]	INSHT MTA/MA-030/A92	2 (Determination of	aromati	c
	ł	nydrocarbons (benzene, tol	uene, ethylbenzene,	p-xylei	ne, 1,2,4-
	t	rimethylbenzene) in air - C	Charcoal tube metho	d / Gas	
	c	chromatography) - 1992 - H	EU project BC/CEN	/ENTR	/000/2002-16
	- (card 47-1 (2004)			
	- (OSHA 1002 (Xylenes (o-, :	m-, p-isomers) Ethy	lbenzen	e) - 1999
	- I	Draeger - Hydrocarbons 0,	1%/c (81 03 571)		
	- I	Draeger - Hydrocarbons 2/2	a (81 03 581)		
BMGV: 650 mmol methyl	hippuric acid/m	ol creatinine in urine,	Other information	: Sk (WEL)
post shift (Xylene, o-, m-, p-	or mixed isome	rs) (BMGV) (Xylene)	(Xylene), Sk (WI	EL) (Etł	ylbenzene)
®	Titanium diox	ide (in powder form contai	ining 1 % or more o	f	Content %:2-
Chemical Name		aerodynamic diameter <=		•	<3
WEL-TWA: 10 mg/m3 (to					ŵ
dust), 4 mg/m3 (respirable dust)					
Monitoring procedures:				1	
BMGV:			Other information	:	

Chemical Name m-tolylidene diisocyanate					Content	
Chemical Name	in-toryndene d	-toryndene diisocyanate				
WEL-TWA: 0,02 mg/m3 (I	EL-TWA: 0,02 mg/m3 (Isocyanates, WEL-STEL: 0,07 mg/m3 (Isocyanates,					
all (as -NCO)) all (as -NCO))						
Monitoring procedures:						
BMGV: 1 µmol isocyanate-derived diamine/mol creatinine in urine Other information: Se					(Isocyanates,	
(At the end of the period of exposure) all (as -NCO))						
Chemical Name Calcium carbonate					Content %:	
WEL TWA: A major (m2) (manimula durat) WEL STEL:					Content %.	

	Calcium carbo	mate			Content 70.
WEL-TWA: 4 mg/m3 (resp.	irable dust),	WEL-STEL:	-		
10 mg/m3 (total inhalable dust)					
Monitoring procedures:	-				
BMGV:			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		



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	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	

Area of application	Exposure route / Environmental	Effect on health	Descript or	Value	Unit	Note
	compartment					
	Environment - freshwater		PNEC	0,184	mg/l	
	Environment - marine		PNEC	0,018 4	mg/l	
	Environment - water, sporadic (intermittent) release		PNEC	0,193	mg/l	
	Environment - sewage treatment plant		PNEC	100	mg/l	
	Environment - sediment, freshwater		PNEC	1000	mg/kg dw	
	Environment - sediment, marine		PNEC	100	mg/kg dw	
	Environment - soil		PNEC	100	mg/kg dw	
	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	

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).
(8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (Directive 2004/37/CE). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period).

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

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



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

8.2 Exposure controls8.2.1 Appropriate engineering controls

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

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

Applies only if maximum permissible exposure values are listed here.

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

These are specified by e.g. EN 14042.

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

8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

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

Eye/face protection:

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

Skin protection - Hand protection: Chemical resistant protective gloves (EN ISO 374). Recommended Protective gloves in butyl rubber (EN ISO 374). Minimum layer thickness in mm: >= 0,5 Protective gloves made of fluorocarbon rubber (EN ISO 374). Minimum layer thickness in mm: >= 0,4 Permeation time (penetration time) in minutes: >= 480 The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions. The recommended maximum wearing time is 50% of breakthrough time. Protective hand cream recommended.

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

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

Thermal hazards: Not applicable

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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

7.1 Information on basic physical and chemical prop	
Physical state:	Liquid
Colour:	According to specification
Odour:	Characteristic
Melting point/freezing point:	There is no information available on this parameter.
Boiling point or initial boiling point and boiling range:	130-150 °C (Reaction mass of ethylbenzene and m-
	xylene and p-xylene)
Flammability:	Flammable
Lower explosion limit:	0,8 Vol-%
Upper explosion limit:	There is no information available on this parameter.
Flash point:	31 °C (Pensky-Martens, closed cup)
Auto-ignition temperature:	480 °C (Reaction mass of ethylbenzene and m-xylene
	and p-xylene)
Decomposition temperature:	There is no information available on this parameter.
pH:	Mixture is non-soluble (in water).
Kinematic viscosity:	398 s (23°C, ISO 2431)
Solubility:	Not miscible
Partition coefficient n-octanol/water (log value):	Does not apply to mixtures.
Vapour pressure:	There is no information available on this parameter.
Density and/or relative density:	1,39-1,41 g/cm3 (20°C)
Relative vapour density:	There is no information available on this parameter.
Particle characteristics:	Does not apply to liquids.
9.2 Other information	
Explosives:	Product is not explosive. When using: development of
•	explosive vapour/air mixture possible.
Oxidising liquids:	No
Solvents content:	249 g/l (Organic solvents)

SECTION 10: Stability and reactivity

10.1 Reactivity



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The product has not been tested. **10.2 Chemical stability** Stable with proper storage and handling. **10.3 Possibility of hazardous reactions** No dangerous reactions are known. **10.4 Conditions to avoid** Heating, open flame, ignition sources Electrostatic charge **10.5 Incompatible materials** Avoid contact with strong oxidizing agents. **10.6 Hazardous decomposition products** No decomposition when used as directed.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

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

Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes
	nt					
Acute toxicity, by oral route:						n.d.a.
Acute toxicity, by dermal route:	ATE	9434	mg/kg			calculated value
Acute toxicity, by inhalation:	ATE	35	mg/l/4h			calculated value, Vapours
Skin corrosion/irritation:						n.d.a.
Serious eye damage/irritation:						n.d.a.
Respiratory or skin sensitisation:						n.d.a.
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Specific target organ toxicity - single exposure (STOT-SE):						n.d.a.
Specific target organ toxicity - repeated						n.d.a.
exposure (STOT-RE):						
Aspiration hazard:						Asp. Tox.
Symptoms:						n.d.a.

Reaction mass of ethylbenzene and m-xylene and p-xylene								
Toxicity / effect	Toxicity / effect Endpoi Value Unit Organism Test method Notes							
nt								



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

Titanium dioxide (in pov	wder form	containing	1 % or more	e of particles	with aerodynamic di	ameter <= 10
μm)						
Toxicity / effect	Endpoi nt	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 425 (Acute Oral Toxicity - Up-and-Down Procedure)	
Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rabbit		
Acute toxicity, by inhalation:	LD50	>6,8	mg/l/4h	Rat		
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosio n)	Not irritant
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosio n)	Not irritant, Mechanical irritation possible.
Respiratory or skin sensitisation:				Mouse	OECD 429 (Skin Sensitisation - Local Lymph Node Assay)	Not sensitizising
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	No (skin contact)
Germ cell mutagenicity:				Mouse	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative



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Germ cell mutagenicity:				Mammalia	OECD 473 (In	Negative
j.				n	Vitro Mammalian	
					Chromosome	
					Aberration Test)	
Germ cell mutagenicity:				Salmonella	(Ames-Test)	Negative
Serm cen mangemeny.				typhimuri	(Times Test)	rieguire
				um		
Germ cell mutagenicity:				um	OECD 476 (In	Negative
Com con mungemeny.					Vitro Mammalian	1 togati to
					Cell Gene	
					Mutation Test)	
Germ cell mutagenicity:					OECD 471	Negative
j.					(Bacterial Reverse	
					Mutation Test)	
Reproductive toxicity				Rat	OECD 414	No
(Developmental				1.000	(Prenatal	indications
toxicity):					Developmental	of such an
toxicity).					Toxicity Study)	effect.
Specific target organ					Toxicity Study)	Not irritant
toxicity - single						(respiratory
exposure (STOT-SE):						tract).
Symptoms:						mucous
Symptoms.						membrane
						irritation,
						coughing,
						respiratory
						distress,
						,
Specific target organ	NOAFI	3500	mg/kg/	Rat		
		5500		mai		
			u			
	NOAEC	10	mg/m3	Rat		90d
Specific target organ toxicity - repeated exposure (STOT-RE), oral: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAEL	3500 10	mg/kg/ d mg/m3	Rat Rat		drying of th skin. 90d 90d

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	ATE	567	mg/kg			
route:						
Acute toxicity, by	ATE	0,16	mg/l/4h			Dust, Mist
inhalation:						
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Corrosive
					Dermal	
					Irritation/Corrosio	
					n)	
Respiratory or skin				Guinea pig	OECD 406 (Skin	Skin Sens.
sensitisation:					Sensitisation)	1A
Aspiration hazard:						No
Specific target organ	NOAEL	20	mg/kg	Rat		28d
toxicity - repeated						
exposure (STOT-RE),						
oral:						
Specific target organ	LOAEL	100	mg/kg	Rat		28d
toxicity - repeated						
exposure (STOT-RE),						
oral:						

Calcium carbonate						
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes
	nt					
Acute toxicity, by oral	LD50	>2000	mg/kg	Rat	OECD 420 (Acute	
route:					Oral toxicity -	
					Fixe Dose	
					Procedure)	
Acute toxicity, by oral	LD50	> 5000	mg/kg	Rat		
route:						
Acute toxicity, by	LD50	>2000	mg/kg	Rat	OECD 402 (Acute	
dermal route:					Dermal Toxicity)	
Acute toxicity, by	LC50	>3	mg/l/4h	Rat	OECD 403 (Acute	
inhalation:					Inhalation	
					Toxicity)	



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Skin corrosion/irritation:	Rabbit	OECD 404 (Acute	Not irritant
		Dermal	
		Irritation/Corrosio	
		n)	
Serious eye	Rabbit	OECD 405 (Acute	Not irritant,
damage/irritation:		Eye	Mechanical
		Irritation/Corrosio	irritation
		n)	possible.
Respiratory or skin			No (skin
sensitisation:			contact)
Germ cell mutagenicity:		in vitro	Negative
Carcinogenicity:			Negative,
			administered
			as Ca-lactate
Reproductive toxicity:			Negative,
			administered
			as Ca-
			carbonate

11.2. Information on other hazards

4F-Sealing 1K-PUR 15 kg							
Art.: 9095825							
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes	
	nt						
Endocrine disrupting						Does not	
properties:						apply to	
						mixtures.	
Other information:						No other	
						relevant	
						information	
						available on	
						adverse	
						effects on	
						health.	

SECTION 12: Ecological information

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

4F-Sealing 1K-PU	4F-Sealing 1K-PUR 15 kg						
Art.: 9095825							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to							n.d.a.
fish:							
12.1. Toxicity to							n.d.a.
daphnia:							
12.1. Toxicity to							n.d.a.
algae:							
12.2. Persistence							n.d.a.
and degradability:							



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12.3.			n.d.a.
Bioaccumulative			
potential:			
12.4. Mobility in			n.d.a.
soil:			
12.5. Results of			n.d.a.
PBT and vPvB			
assessment			
12.6. Endocrine			Does not
disrupting			apply to
properties:			mixtures.
12.7. Other			No
adverse effects:			information
			available on
			other
			adverse
			effects on
			the
			environment.

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 fish:	LC50	96h	>100	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	LC50	48h	>100	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisatio n Test)	
12.1. Toxicity to algae:	EC50	72h	16	mg/l	Pseudokirchne riella subcapitata	U.S. EPA- 600/9-78-018	
12.2. Persistence and degradability:							Not relevan for inorgani substances.
12.3. Bioaccumulative potential:	BCF	42d	9,6				Not to be expected



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

4,5-Dichloro-2-octy	yl-2H-isothiaz	ol-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

Calcium carbonate							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to	EC50	48h	>100	mg/l	Daphnia	OECD 202	
daphnia:					magna	(Daphnia sp.	
					-	Acute	
						Immobilisatio	
						n Test)	



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12.1. Toxicity to algae:	EC50	72h	>14	mg/l	Desmodesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
Toxicity to bacteria:	EC50	3h	>1000	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	
Toxicity to annelids:					Eisenia foetida	OECD 207 (Earthworm, Acute Toxicity Tests)	Negative
12.3. Bioaccumulative potential:							Not relevant for inorganic substances.
12.4. Mobility in soil:							Not relevant for inorganic substances.
12.5. Results of PBT and vPvB assessment							Not relevant for inorganic substances.
12.1. Toxicity to fish:	LC50	96h	>1000	mg/l	Oncorhynchus mykiss		
12.1. Toxicity to fish:	LC50	96h	>100	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	EC50	48h	>1000	mg/l	Daphnia magna		
12.1. Toxicity to algae:	EC50	72h	>200	mg/l	Desmodesmus subspicatus		
12.2. Persistence and degradability:							Inorganic products cannot be eliminated from water through biological purification methods.



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13.1 Waste treatment methods

For the substance / mixture / residual amounts

The waste codes are recommendations based on the scheduled use of this product. Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU) 08 04 09 waste adhesives and sealants containing organic solvents or other hazardous substances Recommendation: Sewage disposal shall be discouraged. Pay attention to local and national official regulations. E.g. suitable incineration plant. E.g. dispose at suitable refuse site. For contaminated packing material Pay attention to local and national official regulations. Empty container completely. Uncontaminated packaging can be recycled. Dispose of packaging that cannot be cleaned in the same manner as the substance. Do not perforate, cut up or weld uncleaned container. Residues may present a risk of explosion.

SECTION 14: Transport information

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

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.



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14.7. Maritime transport in bulk according to IMO instruments

Freighted as packaged goods rather than in bulk, therefore not applicable. Minimum amount regulations have not been taken into account. Danger code and packing code on request. Comply with special provisions.

SECTION 15: Regulatory information

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

Observe restrictions: Comply with national regulations/laws governing the protection of young people at work (national implementation of the Directive 94/33/EC)! Regulation (EC) No 1907/2006, Annex XVII m-tolylidene diisocyanate Comply with national regulations/laws governing maternity protection (national implementation of the Directive 92/85/EEC)!

Comply with trade association/occupational health regulations.

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

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

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

Directive 2010/75/EU (VOC):

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:



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

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

Classification in accordance with regulation (EC)	Evaluation method used
No. 1272/2008 (CLP)	
Flam. Liq. 3, H226	Classification based on test data.
STOT RE 2, H373	Classification according to calculation procedure.
Eye Irrit. 2, H319	Classification according to calculation procedure.
Skin Irrit. 2, H315	Classification according to calculation procedure.
Resp. Sens. 1, H334	Classification according to calculation procedure.
Skin Sens. 1, H317	Classification according to calculation procedure.
Asp. Tox. 1, H304	Classification according to calculation procedure.
Aquatic Chronic 3, H412	Classification according to calculation procedure.

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

H330 Fatal if inhaled.

H226 Flammable liquid and vapour.

H351 Suspected of causing cancer by inhalation.

H317 May cause an allergic skin reaction.

H314 Causes severe skin burns and eye damage.

- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

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.

H412 Harmful to aquatic life with long lasting effects.

EUH071 Corrosive to the respiratory tract.

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

Eye Irrit. — Eye irritation

Skin Irrit. — Skin irritation

Resp. Sens. - Respiratory sensitization

Skin Sens. — Skin sensitization

Asp. Tox. — Aspiration hazard

Aquatic Chronic - Hazardous to the aquatic environment - chronic

Acute Tox. — Acute toxicity - dermal

Acute Tox. — Acute toxicity - inhalation

STOT SE — Specific target organ toxicity - single exposure - respiratory tract irritation Carc. — Carcinogenicity



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Acute Tox. — Acute toxicity - oral Skin Corr. — Skin corrosion Eye Dam. — Serious eye damage Aquatic Acute — Hazardous to the aquatic environment - acute

Key literature references and sources for data:

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

Any abbreviations and acronyms used in this document:

acc., acc. to according, according to

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

AOX Adsorbable organic halogen compounds

approx. approximately

Art., Art. no. Article number

ASTM ASTM International (American Society for Testing and Materials)

ATE Acute Toxicity Estimate

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

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

BCF Bioconcentration factor

BSEF The International Bromine Council

bw body weight

CAS Chemical Abstracts Service

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

CMR carcinogenic, mutagenic, reproductive toxic

DMEL Derived Minimum Effect Level

DNEL Derived No Effect Level

DOC Dissolved organic carbon

dw dry weight

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

EbCx, EyCx, EbLx (x = 10, 50) Effect Concentration/Level of x % on reduction of the biomass (algae, plants)

EC European Community

ECHA European Chemicals Agency



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identifiers for processing a submission via REACH-IT.

ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect 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) ErCx, $E\mu Cx$, ErLx (x = 10, 50) Effect Concentration/Level of x % on inhibition of the growth rate (algae, plants) 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 Adsorption coefficient of organic carbon in the soil Koc Kow octanol-water partition coefficient 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 **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) Log Koc Logarithm of adsorption coefficient of organic carbon in the soil Logarithm of octanol-water partition coefficient Log Kow, Log Pow Limited Quantities LQ MARPOL International Convention for the Prevention of Marine Pollution from Ships not applicable n.a. not available n.av. not checked n.c. n.d.a. no data available NIOSH National Institute for Occupational Safety and Health (USA) NLP No-longer-Polymer NOEC, NOEL No Observed Effect Concentration/Level OECD Organisation for Economic Co-operation and Development org. organic OSHA Occupational Safety and Health Administration (USA) persistent, bioaccumulative and toxic PBT PE Polyethylene 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



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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

TOC Total organic carbon

UN RTDG United Nations Recommendations on the Transport of Dangerous Goods

VOC Volatile organic compounds

vPvB very persistent and very bioaccumulative

wwt wet weight

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge. No responsibility.