(GB) Page 1 of 11 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II	Index	
Page 1 of 11 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II	Index EINECS, ELINCS, NLP, REACH-IT List-No.	
Revision date / version: 01.02.2022 / 0008 Replacing version dated / version: 01.11.2021 / 0007	CAS content %	9016-87-9 10-25
Valid from: 01.02.2022 PDF print date: 01.02.2022	Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Acute Tox. 4, H332 Skin Irrit. 2, H315
Seal-it® 710 Montagefix-PU		Eye Irrit. 2, H319 Resp. Sens. 1, H334
Safety data sheet		Skin Sens. 1, H317 Carc. 2, H351
according to Regulation (EC) No 1907/2006, Annex II		STOT SE 3, H335
SECTION 1: Identification of the substance/mixture and of the	Specific Concentration Limits and ATE	STOT RE 2, H373 Skin Irrit. 2, H315: >=5 %
company/undertaking		Eye Irrit. 2, H319: >=5 % Resp. Sens. 1, H334: >=0,1 %
		STOT SE 3, H335: >=5 %
1.1 Product identifier	4,4'-methylenediphenyl diisocyanate	
Seal-it® 710 Montagefix-PU	Registration number (REACH) Index	01-2119457014-47-XXXX 615-005-00-9
Seal-Re / To Montagenx-r o	EINECS, ELINCS, NLP, REACH-IT List-No.	202-966-0
1.2 Relevant identified uses of the substance or mixture and uses advised	CAS content %	101-68-8 1-<10
against	Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Acute Tox. 4, H332 Skin Irrit. 2, H315
Relevant identified uses of the substance or mixture: Adhesive		Eye Irrit. 2, H319 Resp. Sens. 1, H334
Uses advised against:		Skin Sens. 1, H317
No information available at present.		Carc. 2, H351 STOT SE 3, H335
1.3 Details of the supplier of the safety data sheet Connect Products BV		STOT RE 2, H373 (respiratory system) (as inhalation)
Duurzaamheidsring 220	Specific Concentration Limits and ATE	Skin Irrit. 2, H315: >=5 % Eye Irrit. 2, H319: >=5 %
4231 EX Meerkerk Tel: 0347-341916		Resp. Sens. 1, H334: >=0,1 %
Fax: 0347-341645 info@connectproducts.nl		STOT SE 3, H335: >=5 %
	Propylene carbonate Registration number (REACH)	01-2119537232-48-XXXX
	Index	607-194-00-1
Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.	EINECS, ELINCS, NLP, REACH-IT List-No. CAS	203-572-1 108-32-7
	content % Classification according to Regulation (EC) 1272/2008	1-5 Eye Irrit. 2, H319
1.4 Emergency telephone number Emergency information services / official advisory body:	(CLP), M-factors	-,
	Reaction mass of 4,4'-methylenediphenyl diisocyanate	
Telephone number of the company in case of emergencies: +49 (0) 700 / 24 112 112 (WIC)	and o-(p-isocyanatobenzyl)phenyl isocyanate Registration number (REACH)	01-2119457015-45-XXXX
. 10 (0) 100 / 2 2 (110)	Index	
SECTION 2: Hazards identification	EINECS, ELINCS, NLP, REACH-IT List-No.	905-806-4
	content % Classification according to Regulation (EC) 1272/2008	1-5 Acute Tox. 4, H332
2.1 Classification of the substance or mixture	(CLP), M-factors	Skin Irrit. 2, H315
Classification according to Regulation (EC) 1272/2008 (CLP) Hazard class Hazard category Hazard statement		Eye Irrit. 2, H319 Skin Sens. 1, H317
STOT RE 2 H373-May cause damage to organs through		Resp. Sens. 1, H334 Carc. 2, H351
prolonged or repeated exposure.		STOT SE 3, H335 STOT RE 2, H373 (respiratory system) (as
Eye Irrit.     2     H319-Causes serious eye irritation.       STOT SE     3     H335-May cause respiratory irritation.		inhalation)
STOT SE     3     H335-May cause respiratory irritation.       Skin Irrit.     2     H315-Causes skin irritation.	Specific Concentration Limits and ATE	Skin Irrit. 2, H315: >=5 % Eye Irrit. 2, H319: >=5 %
Resp. Sens. 1 H334-May cause allergy or asthma		Resp. Sens. 1, H334: >=0,1 % STOT SE 3, H335: >=5 %
Skip Sons 1 H217 May cause an allergie skip reaction		
Skin Sens.1H317-May cause an allergic skin reaction.Carc.2H351-Suspected of causing cancer.	2,2'-Dimorpholinyl diethyl ether Registration number (REACH)	01-2119969278-20-XXXX
	Index EINECS, ELINCS, NLP, REACH-IT List-No.	 229-194-7
2.2 Label elements Labeling according to Regulation (EC) 1272/2008 (CLP)	CAS	6425-39-4
Lasoning according to regulation (EC) 12/2/2000 (CEF)	content % Classification according to Regulation (EC) 1272/2008	0,1-2,5 Eye Irrit. 2, H319
	(CLP), M-factors	
	Titanium dioxide (in powder form containing 1 % or more of particles with aerodynamic diameter <= 10 μm)	
	Registration number (REACH)	01-2119489379-17-XXXX
	Index EINECS, ELINCS, NLP, REACH-IT List-No.	022-006-002 236-675-5
	CAS content %	13463-67-7 0,1-<1
Danger	Classification according to Regulation (EC) 1272/2008	Carc. 2, H351 (as inhalation)
	(CLP), M-factors	I
H373-May cause damage to organs through prolonged or repeated exposure. H319-Causes	For the text of the H-phrases and classification codes (GHS/ The substances named in this section are given with their ac	
serious eye irritation. H335-May cause respiratory irritation. H315-Causes skin irritation. H334- May cause allergy or asthma symptoms or breathing difficulties if inhaled. H317-May cause an	For substances that are listed in appendix VI, table 3.1 of the this means that all notes that may be given here for the name	e regulation (EC) no. 1272/2008 (CLP regulation)
allergic skin reaction. H351-Suspected of causing cancer.		
P201-Obtain special instructions before use. P260-Do not breathe vapours or spray. P280-Wear	SECTION 4: First a	in incasules
protective gloves / protective clothing and eye protection / face protection. P284-Wear respiratory protection.	4.1 Description of first aid measures	
P302+P352-IF ON SKIN: Wash with plenty of water and soap. P304+P340-IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338-IF IN EYES: Rinse	First-aiders should ensure they are protected!	-1
cautiously with water for several minutes. Remove contact lenses, if present and easy to do.	Never pour anything into the mouth of an unconscious perso Inhalation	n!
Continue rinsing. P308+P313-IF exposed or concerned: Get medical advice / attention.	Remove person from danger area.	averations.
EUH204-Contains isocyanates. May produce an allergic reaction.	Supply person with fresh air and consult doctor according to If the person is unconscious, place in a stable side position a	and consult a doctor.
As from 24 August 2023 adequate training is required before industrial or professional use. Diphenylmethanediisocyanate, isomeres and homologues	Respiratory arrest - Artificial respiration apparatus necessary Skin contact	<i>I.</i>
4,4'-methylenediphenyl diisocyanate Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl	Wipe off residual product carefully with a soft, dry cloth.	ably with planty of water and ease. In sec.
Reaction mass of 4,4 -mempleheapnenyi diisocyanate and o-(p-isocyanatobenzyi)phenyi isocyanate	Remove polluted, soaked clothing immediately, wash thorou irritation of the skin (flare), consult a doctor.	ging with plenty of water and soap, in case of
2.3 Other hazards	Dab away with polyethylene glycol 400 Eye contact	
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 %).	Remove contact lenses.	
The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included	Wash thoroughly for several minutes using copious water - c Ingestion	an uoctor immediately, have Data Sheet available.
under XIII of the regulation (EC) 1907/2006 (< 0,1 %). The mixture does not contain any substance with endocrine disrupting properties (< 0,1 %).	Rinse the mouth thoroughly with water.	t doctor immediately
	Do not induce vomiting - give copious water to drink. Consult 4.2 Most important symptoms and effects, b	
SECTION 3: Composition/information on ingredients	If applicable delayed symptoms and effects can be found in The following may occur:	
	Dermatitis (skin inflammation)	
3.1 Substances	Drying of the skin. Allergic contact eczema	
n.a.	Discoloration of the skin Irritant to mucosa of the nose and throat	
3.2 Mixtures Diphenylmethanediisocyanate, isomeres and	Coughing Headaches	
homologues	Effect on the central nervous system	
Registration number (REACH)	Asthmatic symptoms	
	1	

(B) Page 2 of 11 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.02.2022 / 0000 Revlacing version dated / version: 01.11.2021 / 0007	[						
Valid from: 01.02.2022 PDF print date: 01.02.2022 Seal-Ik® 710 Montagefix-PU	Monitoring procedures	iso - liqu MD sar fibr	0 16702 (Workplace a cyanate groups in air of id chromatography) - iHS 25/4 (Organic iso npling either onto 2-(1 e filters followed by sc alysis using high perfo	using 2-(1-n 2007 cyanates in -methoxyph olvent desor	nethoxyph air – Labo ienylpiper ption or ir	nenylpipera pratory met razine coate nto impinge	zine and hod using ed glass rs and
In case of sensitivity, concentrations below the limit value may already result in asthmatic symptoms. Respiratory distress In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.		- EU - Nic - Nic - Nic	project BČ/CĚN/ENT DSH 5521 (ISOCYAN/ DSH 5522 (ISOCYAN/ DSH 5525 (ISOCYAN/	R/000/2002 ATES, MON ATES) - 199 ATES, TOT	-16 card IOMERIC 8 AL (MAP)	7-4 (2004) ) - 1994 ) - 2003	2010
<b>4.3 Indication of any immediate medical attention and special treatment needed</b> In case of irritation of the lungs, perform first-aid with controlled-dosage aerosol dexamethasone. Pulmonary oedema prophylaxis	BMGV: 1 µmol isocy (At the end of the perio	- OS anate-derived diamine/m	HA 18 (Diisocyanates HA 47 (Methylene Bis Iol creatinine in urine	phenyl Isoc Other ir	yanate (N	/IDI)) - 1984	1
Medical supervision necessary due to possibility of delayed reaction.		· · ·					Orielant
SECTION 5: Firefighting measures	GB Chemical Nam		s of 4,4'-methylenedip zyl)phenyl isocyanate		yanate a	nd o-(p-	Content %:1-5
5.1 Extinguishing media	WEL-TWA: 0,02 mg all (as -NCO)) Monitoring procedures	/m3 (Isocyanates, ) ::	VEL-STEL: 0,07 mg III (as -NCO))	ı/m3 (Isocya			
Suitable extinguishing media	BMGV: 1 µmol isocy (At the end of the period	anate-derived diamine/m	ol creatinine in urine		formation	n: Sen (as -NCO))	
Extinction powder Water jet spray	GB Chemical Nam	e Titanium dioxi	de (in powder form co aerodynamic diameter	ntaining 1 %			Content %:0,1-
Foam Unsuitable extinguishing media				ι «= το μπη			<1
High volume water jet	WEL-TWA: 10 mg/m dust), 4 mg/m3 (respin		VEL-STEL:				
5.2 Special hazards arising from the substance or mixture In case of fire the following can develop:	Monitoring procedures			Otherin	formation		
Oxides of carbon	BMGV:				formation	1:	
Oxides of nitrogen Isocyanates	GB Chemical Nam	e 4,4'-methylene	ediphenyl diisocyanate	Э			Content %:
Hydrocyanic acid (hydrogen cyanide)	WEL-TWA: 0,02 mg		VEL-STEL: 0,07 mg	/m3 (Isocya	nates,		70.
Toxic gases Danger of bursting (explosion) when heated	all (as -NCO)) Monitoring procedures		III (as -NCO)) 0 16702 (Workplace a	ir quality – c	etermina	tion of total	
5.3 Advice for firefighters	monitoring procoduloc	iso	cyanate groups in air i	using 2-(1-n			
For personal protective equipment see Section 8.			id chromatography) - HS 25/4 (Organic iso		air – Labo	oratory met	hod using
In case of fire and/or explosion do not breathe fumes. Protective respirator with independent air supply.		sar	npling either onto 2-(1	-methoxyph	enylpiper	razine coate	ed glass
According to size of fire			e filters followed by so alysis using high perfo				
Full protection, if necessary. Cool container at risk with water.		- EU	project BC/CEN/ENT	R/000/2002	-16 card	7-4 (2004)	-
Dispose of contaminated extinction water according to official regulations.			OSH 5521 (ISOCYAN) OSH 5522 (ISOCYAN)			) - 1994	
SECTION 6: Accidental release measures		- NIC	OSH 5525 (ISOCYAN) HA 18 (Diisocyanates	ATES, TOTA	AL (MAP)		
		- OS	HA 47 (Methylene Bis	phenyl Isoc	yanate (N	/IDI)) - 1984	
6.1 Personal precautions, protective equipment and emergency procedures	BMGV: 1 µmol isocy (At the end of the period	anate-derived diamine/m	ol creatinine in urine		formation	n: Sen (as -NCO))	
6.1.1 For non-emergency personnel				(ISOCYAI	iales, all	(as -NCO))	_
In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination.	GB Chemical Nam	e Silica, amorph	ious				Content %:
Ensure sufficient ventilation, remove sources of ignition.	WEL-TWA: 6 mg/m3		VEL-STEL:				
Avoid dust formation with solid or powder products. Leave the danger zone if possible, use existing emergency plans if necessary.	2,4 mg/m3 (resp. dust Monitoring procedures						
Ensure sufficient supply of air.	BMGV:			Other in	formatior	n:	
Avoid inhalation, and contact with eyes or skin. If applicable, caution - risk of slipping.	GB Chemical Nam	e Calcium carbo	onate			Î	Content
i applicable; cadion i lick of elipping.	<u> </u>						%:
6.1.2 For emergency responders	WEL-TWA: 4 mg/m3	(respirable dust)	VEL-STEL				70.
See section 8 for suitable protective equipment and material specifications.	WEL-TWA: 4 mg/m3 10 mg/m3 (total inhala	ble dust)	VEL-STEL:				70.
See section 8 for suitable protective equipment and material specifications. 6.2 Environmental precautions	10 mg/m3 (total inhala Monitoring procedures	ble dust)	VEL-STEL:	Other in	formatior		/0.
See section 8 for suitable protective equipment and material specifications. 6.2 Environmental precautions If leakage occurs, dam up. Resolve leaks if this possible without risk.	10 mg/m3 (total inhala Monitoring procedures BMGV:	ble dust)			formation		
See section 8 for suitable protective equipment and material specifications. 6.2 Environmental precautions If leakage occurs, dam up. Resolve leaks if this possible without risk. Prevent surface and ground-water infiltration, as well as ground penetration. Prevent from entering drainage system.	10 mg/m3 (total inhala Monitoring procedures BMGV: GB Chemical Nam	e Reaction mas isocyanatober	s of 4,4'-methylenedip	henyl diisoo	syanate a	nd o-(p-	Content %:
See section 8 for suitable protective equipment and material specifications. 6.2 Environmental precautions If leakage occurs, dam up. Resolve leaks if this possible without risk. Prevent surface and ground-water infiltration, as well as ground penetration. Prevent from entering drainage system. If accidental entry into drainage system occurs, inform responsible authorities.	10 mg/m3 (total inhala Monitoring procedures BMGV:	ble dust) .:	s of 4,4'-methylenedip	henyl diisoo	syanate a		Content
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See section 8 for suitable protective equipment and material specifications. 6.2 Environmental precautions If leakage occurs, dam up. Resolve leaks if this possible without risk. Prevent surface and ground-water infiltration, as well as ground penetration. Prevent from entering drainage system If accidental entry into drainage system occurs, inform responsible authorities. 6.3 Methods and material for containment and cleaning up Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth, sawdust) and dispose of according to Section 13. Allow to stand for a few days in an unclosed container until reaction no longer occurs.	10 mg/m3 (total inhala Monitoring procedures BMGV: Chemical Nam WEL-TWA: 0,02 mg all (as -NCO)) Monitoring procedures	e Reaction mas isocyanatober /m3 (Isocyanates, ) ;; anate-derived diamine/r	s of 4,4'-methylenedip izyl)phenyl isocyanate VEL-STEL: 0,07 mg III (as -NCO))	henyl diisoo h/m3 (Isocya	cyanate a inates, iformatior	nd o-(p-	Content %:
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See section 8 for suitable protective equipment and material specifications.  6.2 Environmental precautions II 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. Allow to stand for a few days in an unclosed container until reaction no longer occurs. Keep moist. Do not close packing drum. CO2 formation in closed tanks causes pressure to rise. 6.4 Reference to other sections For personal protective equipment see Section 8 and for disposal instructions see Section 13. 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	10 mg/m3 (total inhala Monitoring procedures BMCV: Central Chemical Nam WEL-TWA: 0.02 mg all (as -NCO)) Monitoring procedures BMCV: 1 µmol isocy (At the end of the period	bie dust)  Comparison of the second s	s of 4.4'-methylenedipyl izyl)phenyl isocyanate VEL-STEL: 0.07 mg III (as -NCO)) ol creatinine in urine d homologues Effect on	Other ir Other ir (Isocyation) Descriptor PNEC	yanate an inates, iformation nates, all Valu e 1	nd o-(p-  (as -NCO)) Unit mg/l	Content %:
See section 8 for suitable protective equipment and material specifications. 6.2 Environmental precautions Fileakage 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. Allow to stand for a few days in an unclosed container until reaction no longer occurs. Keep moist. Co2 formation in closed tanks causes pressure to rise. 6.4 Reference to other sections For personal protective equipment see Section 8 and for disposal instructions see Section 13. Exercision 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	10 mg/m3 (total inhala Monitoring procedures BMCV: Central Chemical Nam WEL-TWA: 0.02 mg all (as -NCO)) Monitoring procedures BMCV: 1 µmol isocy (At the end of the period	bie dust)  Comparison of the second	s of 4.4'-methylenedipyl izyl)phenyl isocyanate VEL-STEL: 0.07 mg III (as -NCO)) ol creatinine in urine d homologues Effect on	Descri ptor PNEC PNEC	yanate a nates, formation nates, all Valu e 1 0,1	nd o-(p-  : Sen (as -NCO))) Unit mg/l	Content %:
See section 8 for suitable protective equipment and material specifications. 6.2 Environmental precautions Heakage 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. Allow to stand for a few days in an unclosed container until reaction no longer occurs. Keep moist. Do not close packing drum. CO2 formation in closed tanks causes pressure to rise. 6.4 Reference to other sections For personal protective equipment see Section 8 and for disposal instructions see Section 13. 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. Novid inhaltion of the vapours.	10 mg/m3 (total inhala Monitoring procedures BMCV: Central Chemical Nam WEL-TWA: 0.02 mg all (as -NCO)) Monitoring procedures BMCV: 1 µmol isocy (At the end of the period	bie dust)	s of 4.4'-methylenedipyl izyl)phenyl isocyanate VEL-STEL: 0.07 mg III (as -NCO)) ol creatinine in urine d homologues Effect on	Descri ptor PNEC PNEC	yanate a nates, formation nates, all Valu e 1 0,1	nd o-(p-  : Sen (as -NCO))) Unit mg/l	Content %:
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See section 8 for suitable protective equipment and material specifications.  A. Environmental precautions  Heakage 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 occurs, inform responsible authorities.  A. Gather of the 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.  Allow to stand for a few days in an unclosed container until reaction no longer occurs.  Keep moist.  D ont close packing drum.  CO2 formation in closed tanks causes pressure to rise.  A. Reference to other sections  For personal protective equipment see Section 8 and for disposal instructions see Section 13.  In addition to information given in this section, relevant information can also be found in section 8 and 6.1.  T. Precautions for safe handling  Maid inhalation of the vapours.  If applicable, suction measures at the workstation or on the processing machine necessary.  Avoid contact with products of this type in case of allergies, asthma und chronic respiratory tract disorders.  Eating, dinking, smoking, as well as food-storage, is prohibited in work-room.  Deserve directions on label and instructions for use.  Use working, methods, according to operating instructions.  A soluce on the holding of chemicals are applicable.  May from food, drink and animal feedingstuffs.  Rea yavy from food, drink and animal feedingstuffs.  Rea yavy from food, drink and animal feedingstuffs.  May for a food system and of work.  Store product closed and only in original packing.  Kep out of access to unauthorised individuals.  Not be stored in gangways or stair wells.  Store product closed and only in original packing.  Kep area there works the discusters over 50°C.  Only store at temperatures from t.	10 mg/m3 (total inhala Monitoring procedures BMGV: WEL-TWA: 0.02 mg all (as-NCO)) Monitoring procedures BMGV: 1 µmol isocy (At the end of the perior Diphenylmethanedilis Area of application Consumer Consumer Consumer Consumer Consumer Consumer Consumer	ble dust)	s of 4,4'-methylenedip izyl)phenyl isocyanate VEL-STEL: 0,07 mg ill (as -NCO)) ol creatinine in urine d homologues Effect on health bcal effects Short term, local effects Short term, local effects Long term, local effects Long term, local effects Short term, local effects Long term, local effects	Descri ptor PNEC PNEC PNEC PNEC PNEC PNEC PNEC PNEC	xyanate an inates, information inates, all <b>Valu</b> e 1 0,1 1 0,1 1 1 0,0 1 1 20 0,05 0,05 0,05 0,02 5 0,02 5 0,02 5 17,2	nd o-(p- .: Sen (as -NCO)) Unit mg/l mg/l mg/l mg/kg mg/kg mg/kg mg/m3 mg/m3 mg/m3 mg/m3	Content %:
See section 8 for suitable protective equipment and material specifications.  5. <b>C2 Environmental precautions</b> 1. Heakage occurs, dam up.  Resolve leaks if this possible without risk.  7. Prevent surface and ground-water infiltration, as well as ground penetration.  7. Prevent from entering drainage system occurs, inform responsible authorities.  6. <b>3. Methods and material for containment and Cleaning up</b> Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth, sawdust) and dispose of according to Section 13.  Allow to stand for a few days in an unclosed container until reaction no longer occurs.  Keep moist.  O to according to Section 13.  Allow to stand for a few days in an unclosed container until reaction no longer occurs.  Keep moist.  O to according to Section 13.  Allow to stand for a few days in an unclosed container until reaction no longer occurs.  Keep moist.  O to according to Section 13.  Allow to stand for a few days in an unclosed container until reaction no longer occurs.  Keep moist.  O to according to Section 13.  Allow to stand for a few days in an unclosed container until reaction no longer occurs.  Keep moist.  D on to close packing dum.  CO formation in closed tanks causes pressure to rise.  A Reference to other sections  For personal protective equipment see Section 8 and for disposal instructions see Section 13.  I aduition to information given in this section, relevant information can also be found in section 8 and 6.1.  A Precautions for safe handling  T.1 General recommendations  I applicable, suction measures at the workstation or on the processing machine necessary.  Avoid contact with eyes or skin.  No contact with products of this type in case of allergies, asthma und chronic respiratory tract disorders.  Eating, driving, smoking, as well as dod storage, is prohibited in work-room.  Deserve directions on label and instructions for use.  Math hands before breaks and at end of work.  Kee pawing methods according to operating instructions  Store in	10 mg/m3 (total inhala Monitoring procedures BMGV: (C) Chemical Nam WEL-TWA: 0.02 mg all (as -NCO)) Monitoring procedures BMGV: BMGV: Diphenylmethanedils Area of application Diphenylmethanedils Area of application Consumer	bie dust)	s of 4,4'-methylenedip izy/lphenyl isocyanate VEL-STEL: 0,07 mg ill (as -NCO)) ol creatinine in urine Effect on health Short term, local effects Short term, local effects Long term, local effects Long term, local effects Short term, systemic effects Short term, systemic effects Short term, local effects Short term, local effects Short term, local effects	Minimum Content of the second	Value           1           0,1           1           0,1           1           0,05           0,05           0,05           0,02           5           0,02           5           17,2           25           0,1	nd o-(p- (as -NCO)) Unit mg/l mg/l mg/l mg/l mg/kg mg/kg bw/d mg/m3 mg/m3 mg/m3 mg/m3 mg/cm 2 mg/kg mg/kg mg/kg mg/m3	Content %:
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See section 8 for suitable protective equipment and material specifications.  A.2 Environmental precedutions  Haskage occurs, dam up:  Resolve teaks if this possible without risk.  Prevent unreal ending drainage system occurs, inform responsible authorities.  A. Methods and material for containment and cleaning up  Sak up with absorbent material (e.g., universal binding agent, sand, diatmacous earth, sawdust) and dispose of according to Section 13.  Allow to stand for a few days in an unclosed container until reaction no longer occurs.  Reep moist.  D. On close packing drum.  C.2 formation in closed tanks causes pressure to rise.  A.10w to stand for a few days in an unclosed container until reaction no longer occurs.  Reep moist.  D. on close packing drum.  C.2 formation in closed tanks causes pressure to rise.  A.10w to stand for a few days in an unclosed container until reaction see Section 13.  E.10 ECTION 7: Handling and Storegame  I addition to information given in this section, relevant information can also be found in section 8 and 6.1.  T.10 Executions for safe handling  I applicable, suction measures at the workstation or on the processing machine necessary.  Reconstart with products of this type in case of allergies, asthma und chronic respiratory tract disorders.  Eating, drinking, smoking, as well as flowability, is prohibited in work-room.  Coberve directions on label for shore days, is prohibited in work-room.  Coberve directions on label and instructions for use.  Reaveral typicememasures of the handling of chemicals are applicable.  Wash hand before breaks and at end of work.  Reaveral typicememasures of the handling of chemicals are applicable.  Magenda according to operating instruction gaves in which food is consumed.  Actionationative dictinations and redering stuffs.  Reproved to direct sunlight and temperatures over 50°C.  Actionationative dictinations and redering three.  Store protected from direct sunlight and temperatures over 50°C.  Any store in a dry place.  Store protected from the	10 mg/m3 (fuel in hala Monitoring procedures BMGV: SMGV: SMGV: WEL-TWA: 0,02 mg all (as-NCO) Monitoring procedures BMGV: 1 µmol isocy (At the end of the perior Diphenylmethanedils Area of application  Consumer Workers / employees Workers / employees	bie dust)	s of 4,4'-methylenedip izyl)phenyl isocyanate VEL-STEL: 0,07 mg ill (as -NCO)) ol creatinine in urine Effect on health bealth bealth bealth bealth bealth beal effects Short term, local effects Short term, local effects Long term, systemic effects Short term, local effects Short term, systemic effects	Descri phonyl diisoc ma (lsocya ma (lsocya ptor PNEC PNEC PNEC PNEC PNEC PNEC PNEC DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL	Value       Imates,       information       information <td< td=""><td>nd o-(p-  (as -NCO)) Unit mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/kg bw/d mg/m3 mg/m4</td><td>Note Note</td></td<>	nd o-(p- (as -NCO)) Unit mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/kg bw/d mg/m3 mg/m4	Note Note
see section 8 for suitable protective equipment and material specifications.  A.2. Expression of the suitable protective equipment and material specifications.  A.2. Expression of the section section of the section o	10 mg/m3 (fuel in hala Monitoring procedures BMGV: SMGV: SMGV: WEL-TWA: 0,02 mg all (as-NCO) Monitoring procedures BMGV: 1 µmol isocy (At the end of the perior Diphenylmethanedils Area of application  Consumer Workers / employees Workers / employees	bie dust)	s of 4,4'-methylenedip izyl)phenyl isocyanate VEL-STEL: 0,07 mg ill (as -NCO)) ol creatinine in urine Effect on health bealth bealth bealth bealth bealth beal effects Short term, local effects Short term, local effects Long term, systemic effects Short term, local effects Short term, systemic effects	More and a second	Value         information         <	nd o-(p- (as -NCO)) Unit Unit Unit (as -NCO)) Unit (as -NCO)) Unit (as -NCO)) Unit Unit Unit	Note Note

					1	
2022						
Environment - sewage treatment		PNEC	1	mg/l		
plant Environment - soil		PNEC	2,33	mg/kg		Consum
Environment - sporadic		PNEC	37	µg/l		Consum
Environment -		PNEC	11,7	mg/kg		Consum
Environment -		PNEC	1,17	weight		employe Workers
sediment, marine				dry weight		employe
	systemic effects			mg/kg bw/day		Titaniun
	local effects			2		µm) Area of a
	systemic effects			bw/day		
	local effects			-		
	systemic effects			-		
	local effects		5	-		
	systemic effects		5			
	local effects			2		
	systemic effects			bw/day		
	local effects			-		
	systemic effects			-		
	local effects			-		
Human - Innaiation	systemic effects	DINEL	0,05	mg/m3		Consum Workers
						employe
Exposure route / Environmental	Effect on health	Descri ptor	Valu e	Unit	Note	4,4'-met
Environment -		PNEC	9	mg/l		Area of a
(intermittent) release		DNEC	0.09	ma/l		
marine		-		-		
sediment, marine			3	-		
Environment -		PNEC	0,81	mg/l		
Environment -		PNEC	0,83	mg/l		
Environment -		PNEC	740 0	mg/l		
plant	Long term.	DNEL		ma/ka		Consum
	systemic effects					Consum
	systemic effects					Consum
	local effects			-		Consum
	systemic effects			-		Consum
	systemic effects		3			Consum
	systemic effects			-		Consum
	systemic effects					Workers
indian inidiatori	local effects	5.122	20			employe Workers employe
-methylenedinhenyl diis	covanate and o-(n-	isocvanato	honzul)n	henvl isoc	vanato	Workers
Exposure route /	Effect on	Descri	Valu	Unit	Note	employe Workers
compartment	health	•				employe Workers
freshwater				µg/l		employe Workers
Environment - marine				µg/l		employe
Environment - soil Environment -		PNEC PNEC	2,33 1	mg/kg mg/l		GB WEI average)
sewage treatment plant						(8) = Inh 2017/164
Environment - water, sporadic		PNEC	3,7	µg/l		fraction. Directive
(intermittent) release Environment -		PNEC	11,7	mg/kg		(Directive reference
sediment, freshwater				dry weight		(8) = Inh 2017/23
Environment - sediment, marine		PNEC	1,17	mg/kg dry		(2017/16 (biologic
Human - inhalation	Long term,	DNEL	0,02	weight mg/m3		Can be a ** = The
Human - inhalation	local effects Short term,	DNEL	5 0,05	mg/m3		the goal (13) = Th
Human - inhalation	local effects Short term,	DNEL	0,1	mg/m3	<u> </u>	(14) = Tr
Human - inhalation	local effects Long term,	DNEL	0,05	mg/m3		8.2 Ex 8 2 1 4
	local effects		.,	.3		8.2.1 A
ethyl ether						Ensure g If this is i
ethyl ether Exposure route / Environmental	Effect on health	Descri ptor	Valu e	Unit	Note	
	2022 ix-PU Environment - sewage treatment plant Environment - soil Environment - sediment, freshwater Environment - sediment, freshwater Human - oral Human - oral Human - dermal Human - inhalation Human - oral Human - inhalation Human - in	2022         ix-PU         Environment - soil         Environment - soil         Sporadic (intermittent) release         Environment - sediment, freshwater         Environment - sediment, marine         Human - oral       Short term, local effects         Human - dermal       Short term, local effects         Human - inhalation       Long term, systemic effects         Human - inhalation       Short term, local effects         Human - inhalation       Short term, local effects         Human - inhalation       Long term, systemic effects         Human - inhalation	2022           ix-PU           Environment - soil         PNEC           Environment - soil         PNEC           Environment - soil         PNEC           intermittent) release         PNEC           Environment - sediment, marine         PNEC           Human - oral         Short term, systemic effects         PNEL           Human - dermal         Short term, systemic effects         DNEL           Human - inhalation         Long term, DNEL         DNEL           Human - inhalation         Long term, Systemic effects         DNEL           Human - inhalatio	2022 b:PU Environment - sewage treatment plant Environment - sol	2022 Environment - sevage treatment joint Environment - solanti Environment - solanti Environment - solanti Environment - sediment, freshwater Environment - sediment, freshwater Environment - sediment, freshwater Human - oral Short term, ocal effects DNEL 17.2 mg/kg Human - inhalation Log effects DNEL 0.05 mg/m3 Human - inhalation Log effects DNEL 0.06 mg/m3 Human - inhalation Log effects DNEL 0.07 mg/m3 Human - inhalation Log effects DNEL 0.08 mg/m3 Human - inhalation Log effects DNEL 0.07 mg/m3 Human - inhalation Log	2022     PNEC     1     Implify       Environment - soil     PNEC     2.33     mg/n       Environment - soil     PNEC     37     Hyld       Sporadic     PNEC     11.7     mg/kg       Environment - soil     PNEC     11.7     mg/kg       Sporadic     PNEC     11.7     mg/kg       Environment - soil     PNEC     11.7     mg/kg       Sedment, frashwater     PNEC     11.7     mg/kg       Human - oral     Short term, systemic effects     PNEC     20.1       Human - inhalation     Short term, systemic effects     DNEL     0.02     mg/m3       Human - inhalation     Short term, systemic effects     DNEL     0.02     mg/m3       Human - inhalation     Long term, bNEL     0.02     mg/m3     DNEL       Human - inhalation     Long term, bNEL     0.02     mg/m3     DNEL       Human - inhalation     Short term, systemic effects     DNEL     0.05     mg/m3       Human - inhalation     Short term, systemic effects     DNEL     0.05     mg/m3       Human - inhalation     Short term, systemic effects     DNEL     0.05     mg/m3       Human - inhalation     Long term, systemic effects     DNEL     0.05     mg/m3       Human -

Environment -

freshwater Environment -

marine

PNEC

PNEC

0,1

0,01

mg/l

mg/l

	Environment - sporadic		PNEC	1	mg/l	
	(intermittent) release Environment -		PNEC	8,2	mg/kg	
	sediment, freshwater Environment -		PNEC	0,82	mg/kg	
	sediment, marine Environment - soil		PNEC	1,58	ma/ka	
	Environment - sewage treatment		PNEC	1,58	mg/kg mg/l	
Consumer	plant Human - inhalation	Long term,	DNEL	1,8	mg/m3	
Consumer	Human - dermal	systemic effects Long term,	DNEL	0,5	mg/kg	
Consumer	Human - oral	systemic effects Long term,	DNEL	0,5	bw/d mg/kg	
Workers / employees	Human - inhalation	systemic effects Long term, systemic effects	DNEL	7,28	bw/d mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	1	mg/kg bw/d	
Titanium dioxide (in j µm)	powder form containing	1 % or more of part	icles with a	ierodyna	mic diamet	er <= 10
Area of application	Exposure route / Environmental compartment	Effect on health	Descri ptor	Valu e	Unit	Note
	Environment - freshwater		PNEC	0,18 4	mg/l	
	Environment - marine		PNEC	0,01 84	mg/l	
	Environment - water, sporadic		PNEC	0,19 3	mg/l	
	(intermittent) release Environment - sewage treatment		PNEC	100	mg/l	
	plant Environment -		PNEC	100	mg/kg	
	sediment, freshwater Environment -		PNEC	0 100	dw mg/kg	
	sediment, marine Environment - soil		PNEC	100	dw mg/kg	
	Environment - oral		PNEC	166	dw mg/kg	
Consumer	(animal feed) Human - oral	Long term,	DNEL	7 700	feed mg/kg	
					bw/d	
Workers /	Human - inhalation	systemic effects Long term,	DNEL	10	mg/m3	
Workers / employees	Human - inhalation		DNEL	10		
employees		Long term,	DNEL	10		
employees 4,4'-methylenedipher	nyl diisocyanate	Long term, local effects			mg/m3	Noto
employees	nyl diisocyanate Exposure route / Environmental	Long term,	DNEL Descri ptor	10 Valu e		Note
employees 4,4'-methylenedipher	nyl diisocyanate Exposure route / Environmental compartment Environment -	Long term, local effects Effect on	Descri	Valu	mg/m3	Note
employees 4,4'-methylenedipher	nyl diisocyanate Exposure route / Environmental compartment Environment - freshwater Environment -	Long term, local effects Effect on	Descri ptor	Valu e	mg/m3 Unit	Note
employees 4,4'-methylenedipher	nyl diisocyanate Exposure route / Environmental compartment Environment - freshwater	Long term, local effects Effect on	Descri ptor PNEC	Valu e 1	mg/m3 Unit mg/l mg/kg	Note
employees 4,4'-methylenedipher	hyl diisocyanate Exposure route / Environmental Environment - freshwater Environment - marine	Long term, local effects Effect on	Descri ptor PNEC PNEC	<b>Valu</b> e 1 0,1	mg/m3 Unit mg/l mg/l	Note
employees 4,4'-methylenedipher	yl diisocyanate Exposure route / Environmental compartment Environment - freshwater Environment - marine Environment - soil Environment - sewage treatment plant Environment -	Long term, local effects Effect on	Descri ptor PNEC PNEC PNEC	Valu e 1 0,1 1	mg/m3 Unit mg/l mg/kg dw	Note
employees 4,4'-methylenedipher Area of application	yl diisocyanate Exposure route / Environmental compartment Environment - freshwater Environment - marine Environment - sewage treatment plant Environment - water, sporadic (intermittent) release	Long term, local effects Effect on health	Descri ptor PNEC PNEC PNEC PNEC PNEC	Valu e 1 0,1 1 1 10	mg/m3 Unit mg/l mg/kg dw mg/l mg/l	Note
employees 4.4'-methylenedipher Area of application Consumer	yl diisocyanate Exposure route / Environmental compartment Environment - freshwater Environment - marine Environment - sewage treatment plant Environment - water, sporadic (intermittent) release Human - dermal	Long term, local effects Effect on health Short term, systemic effects	Descri ptor PNEC PNEC PNEC PNEC PNEC DNEL	Valu e 1 0,1 1 1 10 25	mg/m3 Unit mg/l mg/kg dw mg/l mg/l mg/kg bw/d	Note
employees 4,4'-methylenedipher Area of application Consumer Consumer	yl diisocyanate Exposure route / Environmental compartment Environment - freshwater Environment - marine Environment - sewage treatment plant Environment - swater, sporadic (intermittent) release Human - dermal Human - inhalation	Long term, local effects Effect on health Short term, systemic effects Short term, systemic effects	Descri ptor PNEC PNEC PNEC PNEC PNEC DNEL DNEL	Valu e 1 0,1 1 1 10 25 0,05	mg/m3 Unit mg/l mg/l mg/kg dw mg/l mg/kg bw/d mg/m3	Note
employees 4.4'-methylenedipher Area of application Consumer Consumer Consumer	yl diisocyanate Exposure route / Environmental compartment Environment - freshwater Environment - sewage treatment plant Environment - sewage treatment plant Environment - water, sporadic (intermittent) release Human - dermal Human - oral	Long term, local effects Effect on health Short term, systemic effects Short term, systemic effects Short term, systemic effects	Descri ptor PNEC PNEC PNEC PNEC PNEC DNEL DNEL DNEL	Valu e 1 0,1 1 1 10 25 0,05 20	mg/m3 Unit mg/l mg/l mg/kg dw mg/l mg/kg bw/d mg/m3 mg/kg bw/d	Note
employees 4,4'-methylenedipher Area of application Consumer Consumer Consumer Consumer Consumer	yl diisocyanate Exposure route / Environmental compartment Environment - freshwater Environment - sewage treatment plant Environment - sewage treatment plant Environment - water, sporadic (intermittent) release Hurman - dermal Hurman - oral Hurman - dermal	Long term, local effects Effect on health Short term, systemic effects Short term, systemic effects Short term, systemic effects Short term, systemic effects	Descri ptor PNEC PNEC PNEC PNEC PNEC DNEL DNEL DNEL DNEL DNEL	Valu e 1 0,1 1 1 10 25 0,05 20 17,2	mg/m3 Unit mg/l mg/l mg/kg dw mg/l mg/kg bw/d mg/kg bw/d mg/kg bw/d mg/kg bw/d	Note
employees 4,4'-methylenedipher Area of application Consumer Consumer Consumer Consumer Consumer Consumer Consumer	yl diisocyanate Exposure route / Environmental compartment Environment - freshwater Environment - marine Environment - sewage treatment plant Environment - water, sporadic (intermittent) release Human - dermal Human - oral Human - oral Human - dermal	Long term, local effects Effect on health Short term, systemic effects Short term, systemic effects Short term, local effects Short term, local effects Short term, local effects	PNEC PNEC PNEC PNEC PNEC PNEC PNEC DNEL DNEL DNEL DNEL DNEL	Valu e 1 0,1 1 1 10 25 0,05 20 17,2 0,05	mg/m3 Unit mg/l mg/l mg/kg dw mg/l mg/kg bw/d mg/kg bw/d mg/kg bw/d mg/kg bw/d mg/m3 mg/kg bw/d mg/m3	Note
employees 4,4'-methylenedipher Area of application Consumer Consumer Consumer Consumer Consumer Consumer Consumer Consumer	yl diisocyanate Exposure route / Environmental compartment Environment - freshwater Environment - marine Environment - sewage treatment plant Environment - water, sporadic (intermittent) release Human - dermal Human - oral Human - oral Human - inhalation Human - inhalation	Long term, local effects Effect on health Short term, systemic effects Short term, systemic effects Short term, local effects Short term, local effects Long term, systemic effects Long term,	Descri ptor PNEC PNEC PNEC PNEC PNEC DNEL DNEL DNEL DNEL DNEL DNEL DNEL	Valu e 1 0,1 1 1 1 1 25 0,05 20 17,2 0,05 0,05 5	mg/m3 Unit mg/l mg/l mg/kg dw/ mg/l mg/kg bw/d mg/m3 mg/kg bw/d mg/m3	Note
employees 4.4'-methylenedipher Area of application Consumer Consum	yl diisocyanate Exposure route / Environmental compartment Environment - freshwater Environment - sewage treatment plant Environment - sewage treatment plant Environment - sewage treatment plant (intermittent) release Human - dermal Human - oral Human - oral Human - inhalation Human - inhalation Human - inhalation	Long term, local effects Effect on health Short term, systemic effects Short term, systemic effects Short term, local effects Long term, local eff	Descri ptor PNEC PNEC PNEC PNEC PNEC DNEL DNEL DNEL DNEL DNEL DNEL DNEL	Valu e 1 0,1 1 1 1 1 1 25 0,05 20 17,2 0,05 0,02 5 0,02 5	mg/m3 Unit mg/l mg/l mg/kg dw/ mg/l mg/kg bw/d mg/m3 mg/m3 mg/m3 mg/m3	Note
employees  4,4'-methylenedipher Area of application  Consumer  Con	yl diisocyanate Exposure route / Environmental compartment Environment - freshwater Environment - sewage treatment plant Environment - sewage treatment plant Environment - swater, sporadic (intermittent) release Human - dermal Human - oral Human - oral Human - oral Human - inhalation Human - inhalation Human - inhalation Human - inhalation	Long term, local effects Effect on health Short term, systemic effects Short term, systemic effects Short term, local effects Short term, systemic effects Short term, local effects Short term, local effects Short term, local effects	Descri ptor PNEC PNEC PNEC PNEC PNEC DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL	Valu e 1 0,1 1 1 1 1 25 0,05 20 17,2 0,05 0,02 5 0,02 5 50	mg/m3 Unit mg/l mg/l mg/l mg/kg bw/d mg/m3 mg/kg bw/d mg/m3 mg/m3 mg/m3 mg/m3 mg/m3 mg/m3	Note
employees 4,4'-methylenedipher Area of application Consumer Consumer Consumer Consumer Consumer Consumer Consumer Consumer Consumer Workers / employees Workers / employees	yl diisocyanate Exposure route / Environmental Compartment Environment - freshwater Environment - swage treatment plant Environment - swage treatment plant Environment - swage treatment plant Environment - water, sporadic (intermittent) release Human - dermal Human - inhalation Human - oral Human - dermal Human - inhalation Human - inhalation Human - inhalation Human - dermal Human - dermal	Long term, local effects Effect on health Short term, systemic effects Short term, systemic effects Short term, systemic effects Short term, local effects Long term, local effects Long term, local effects Short term, systemic effects Short term,	Descri ptor PNEC PNEC PNEC PNEC PNEC DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL	Value           1           0,1           1           1           10           25           0,05           20           17,2           0,05           0,02           5           0,02           50           0,1	mg/m3 Wnit mg/l mg/l mg/kg dw mg/l mg/kg bw/d mg/kg bw/d mg/m3 mg/kg bw/d mg/m3 mg/kg bw/d mg/m3	Note
employees 4,4'-methylenedipher Area of application Consumer Consumer Consumer Consumer Consumer Consumer Consumer Consumer Consumer Workers / employees Workers / employees Workers / employees	yl diisocyanate Exposure route / Environmental compartment Environment - freshwater Environment - marine Environment - sewage treatment plant Environment - sewage treatment plant Environment - water, sporadic (intermittent) release Hurman - dermal Hurman - oral Hurman - oral Hurman - oral Hurman - dermal Hurman - inhalation Hurman - inhalation Hurman - inhalation Hurman - inhalation Hurman - inhalation Hurman - inhalation Hurman - inhalation	Long term, local effects Effect on health Short term, systemic effects Short term, systemic effects Short term, systemic effects Short term, local effects Long term, local effects Short term, systemic effects Short term, systemic effects Short term, local effects Short term, systemic effects Short term, local effects Short term, systemic effects Short term, systemic effects Short term, systemic effects Short term, systemic effects Short term, local effects Short term, systemic effects Short term, local effects Short term,	Descri ptor PNEC PNEC PNEC PNEC DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL	Valu e 1 0,1 1 1 1 25 0,05 20 17,2 0,05 20 17,2 0,05 50 0,02 5 0,02 5 0,02 5 0,01 28,7	mg/m3 Unit mg/l mg/l mg/kg dw mg/l mg/kg bw/d mg/m3 mg/kg bw/d mg/m3 mg/m3 mg/kg bw/d mg/m3 mg/kg bw/d mg/m3 mg/kg bw/d mg/m3 mg/kg bw/d mg/m3 mg/m3 mg/kg bw/d mg/m3 mg/m3 mg/kg bw/d mg/m3 mg/m3 mg/m3 mg/kg bw/d mg/m3 mg/kg bw/d mg/m3 mg/mg	Note
employees 4,4'-methylenedipher Area of application Consumer Consumer Consumer Consumer Consumer Consumer Consumer Consumer Workers / employees Workers / employees Workers / employees	yl diisocyanate Exposure route / Environmental compartment Environment - freshwater Environment - marine Environment - sewage treatment plant Environment - water, sporadic (intermittent) release Human - dermal Human - dermal Human - oral Human - oral Human - dermal Human - inhalation Human - inhalation Human - dermal Human - dermal Human - dermal Human - inhalation Human - inhalation Human - inhalation Human - inhalation Human - dermal Human - dermal	Long term, local effects Effect on health Short term, systemic effects Short term, systemic effects Short term, local effects Cong term, local effects Long term, local effects Long term, local effects Short term,	PNEC PNEC PNEC PNEC PNEC PNEC DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL	Value           1           0,1           1           1           1           10           25           0,05           20           17,2           0,05           0,05           0,05           0,02           50           0,1           28,7           0,1	mg/m3 mg/l mg/l mg/l mg/l mg/kg dw mg/l mg/kg bw/d mg/m3 mg/m3 mg/m3 mg/m3 mg/kg bw/d mg/m3 mg/kg bw/d mg/m3 mg/kg bw/d mg/m3 mg/kg bw/d mg/m3 mg/kg bw/d mg/m3 mg/m3 mg/kg bw/d mg/m3 mg/m3 mg/kg bw/d mg/m3 mg/m3 mg/kg bw/d mg/m3 mg/m3 mg/m3 mg/kg bw/d mg/m3 mg/m3 mg/m3 mg/m3 mg/m3 mg/kg bw/d mg/m3	Note
employees  4,4'-methylenedipher Area of application  Consumer  Consumer  Consumer  Consumer  Consumer  Consumer  Consumer  Consumer  Consumer  Workers / employees  Workers / employees	yl diisocyanate Exposure route / Environmental compartment Environment - freshwater Environment - marine Environment - sewage treatment plant Environment - sewage treatment plant Environment - water, sporadic (intermittent) release Hurman - dermal Hurman - oral Hurman - oral Hurman - oral Hurman - dermal Hurman - inhalation Hurman - inhalation Hurman - inhalation Hurman - inhalation Hurman - inhalation Hurman - inhalation Hurman - inhalation	Long term, local effects Effect on health Short term, systemic effects Short term, systemic effects Short term, local effects Short term, local effects Long term, local effects Short term, systemic effects Short term, local effects Short term, systemic effects Short term, systemic effects Short term, systemic effects Short term, systemic effects Short term, local effects Short term, local effects Short term, systemic effects Short term, local effects Short term, local effects Short term,	Descri ptor PNEC PNEC PNEC PNEC DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL	Valu e 1 0,1 1 1 1 25 0,05 20 17,2 0,05 20 17,2 0,05 50 0,02 5 0,02 5 0,02 5 0,01 28,7	mg/m3 Unit mg/l mg/l mg/kg dw mg/l mg/kg bw/d mg/m3 mg/kg bw/d mg/m3 mg/m3 mg/kg bw/d mg/m3 mg/kg bw/d mg/m3 mg/kg bw/d mg/m3 mg/kg bw/d mg/m3 mg/m3 mg/kg bw/d mg/m3 mg/m3 mg/kg bw/d mg/m3 mg/m3 mg/m3 mg/kg bw/d mg/m3 mg/kg bw/d mg/m3 mg/mg	Note

/A = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted rence period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany). le fraction (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive , Directive 2004/37/CE). (11) = Inhalable fraction (Directive 2004/37/CE). (12) = Inhalable pirable fraction in those Member States that implement, on the date of the entry into force of this iomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine 04/37/CE). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute icrd).

bstance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), bstance can cause sensitisation of the skin (Directive 2004/37/CE).

# ure controls

opriate engineering controls

ventilation. This can be achieved by local suction or general air extraction. ficient to maintain the concentration under the WEL or AGW values, suitable breathing protection rr.

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

B) Page 4 of 11 Safety data sheet according to Regulation (EC) No 190	)7/2006, Annex II	Toxicity / effect	Endpo int	Value	Unit	Organis m	Test method	Notes
Revision date / version: 01.02.2022 / 0008 Replacing version dated / version: 01.11.2021 / 0007		Acute toxicity, by oral route:						n.d.a.
Valid from: 01.02.2022 PDF print date: 01.02.2022		Acute toxicity, by dermal route:						n.d.a.
Seal-it® 710 Montagefix-PU		Acute toxicity, by inhalation:	ATE	>20	mg/l/ 4h			calculat value,
General hygiene measures for the handling of chemica Wash hands before breaks and at end of work.	ls are applicable.	Skin						Vapours n.d.a.
Keep away from food, drink and animal feedingstuffs. Remove contaminated clothing and protective equipme	ant before entering groce in which feed is consumed	corrosion/irritation: Serious eye						n.d.a.
Eve/face protection:	sit before entening areas in which food is consumed.	damage/irritation:						
Fight fitting protection.	166).	Respiratory or skin sensitisation:						n.d.a.
Skin protection - Hand protection:		Germ cell mutagenicity:						n.d.a.
Chemical resistant protective gloves (EN ISO 374). Recommended		Carcinogenicity: Reproductive toxicity:						n.d.a. n.d.a.
Protective nitrile gloves (EN ISO 374). /linimum layer thickness in mm:		Specific target organ toxicity - single						n.d.a.
>= 0,35 Permeation time (penetration time) in minutes:		exposure (STOT-SE): Specific target organ						n.d.a.
>= 480 The breakthrough times determined in accordance with	EN 16523-1 were not obtained under practical	toxicity - repeated exposure (STOT-RE):						
conditions. The recommended maximum wearing time is 50% of b		Aspiration hazard: Symptoms:						n.d.a. n.d.a.
Protective hand cream recommended.		Diphenylmethanediiso	rvanate iso	meres and	homologue	26		
Skin protection - Other: Protective working garments (e.g. safety shoes EN ISC	20345 long-sleeved protective working garments)	Toxicity / effect	Endpo int	Value	Unit	Organis	Test method	Notes
	20040, iong-sieeved protective working gamenta).	Acute toxicity, by oral	LD50	>10000	mg/k	m Rat	OECD 401	
Respiratory protection: Normally not necessary.		route:			g		(Acute Oral Toxicity)	
f OES or MEL is exceeded. Filter A2 P2 (EN 14387), code colour brown, white		Acute toxicity, by dermal route:	LD50	>9400	mg/k g	Rabbit	OECD 402 (Acute Dermal	
Observe wearing time limitations for respiratory protect	ion equipment.	Acute toxicity, by	LC50	0,49	mg/l/	Rat	Toxicity) OECD 403	Aeroso
Fhermal hazards: Not applicable		inhalation:			4h		(Acute Inhalation Toxicity)	Does n conform
Additional information on hand protection - No tests ha	ve been performed.							with EL classifi
n the case of mixtures, the selection has been made a nformation about the contents.		Skin				Rabbit	OECD 404	n. Skin Irr
Selection of materials derived from glove manufacturer Final selection of glove material must be made taking t		corrosion/irritation:				NAUDIL	(Acute Dermal	JKIII III
degradation into account.							Irritation/Corrosio n)	
Selection of a suitable glove depends not only on the n varies from manufacturer to manufacturer.		Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye	Mild irri
n the case of mixtures, the resistance of glove materia before use.							Irritation/Corrosio n)	
The exact breakthrough time of the glove material can and must be observed.	be requested from the protective glove manufacturer	Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Yes (sk contact
3.2.3 Environmental exposure controls		Respiratory or skin sensitisation:				Rat	,	Yes (inhalat
lo information available at present.		Germ cell mutagenicity:				Salmonel la	Regulation (EC) 440/2008	Analog
SECTION 9: Physical a	ind chemical properties	mutagenicity:				typhimuri	B.13/B.14	Negati
						um	(REVERSE MUTATION	
9.1 Information on basic physical and cl Physical state:	hemical properties Pastelike, Liquid						TEST USING BACTERIA)	
Colour: Odour:	According to specification Characteristic	Germ cell mutagenicity:				Rat	OECD 474 (Mammalian	Negativ Analogo
Welting point/freezing point: Boiling point or initial boiling point and boiling range:	There is no information available on this parameter. There is no information available on this parameter.						Erythrocyte Micronucleus	conclus
Flammability:	Combustible. There is no information available on this parameter.	Carcinogenicity:		1	mg/m	Rat	Test) OECD 453	Positive
Lower explosion limit: Jpper explosion limit:	There is no information available on this parameter.	ouronogeniony.			3	Rut	(Combined Chronic	1 051110
Flash point: Auto-ignition temperature:	There is no information available on this parameter. n.a.						Toxicity/Carcinog	
Decomposition temperature: bH:	There is no information available on this parameter. Mixture reacts with water.	Reproductive toxicity		4	mg/m	Rat	enicity Studies) OECD 414	Negativ
Kinematic viscosity: Solubility:	There is no information available on this parameter. Insoluble	(Developmental toxicity):			3		(Prenatal Developmental	
Partition coefficient n-octanol/water (log value): Vapour pressure:	Does not apply to mixtures. There is no information available on this parameter.	Reproductive toxicity				Rat	Toxicity Study) OECD 414	Negativ
Density and/or relative density: Relative vapour density:	~1,51 g/cm3 There is no information available on this parameter.	(Effects on fertility):					(Prenatal Developmental	
Particle characteristics:	Does not apply to liquids.	Reproductive toxicity:	NOAE	12	mg/m	Rat	Toxicity Study) OECD 414	Negativ
9.2 Other information Explosives:	Product is not explosive.	rioproductive textory:	L		3		(Prenatal Developmental	Aeroso
Oxidising liquids: Evaporation rate:	No n.a.	Creatilia torgat argan					Toxicity Study)	Instation
	bility and reactivity	Specific target organ toxicity - single						Irritatio the
		exposure (STOT-SE):						respirat tract
10.1 Reactivity		Specific target organ toxicity - repeated	NOEC	0,2	mg/k g		OECD 453 (Combined	
eacts with water		exposure (STOT-RE):					Chronic Toxicity/Carcinog	
itable with proper storage and handling. 0.3 Possibility of hazardous reactions		Aspiration hazard:					enicity Studies)	No
xothermic reaction possible with:		Symptoms:						fever, coughi
lcohols mines								headac
ases cids								nause and
Vater levelopement of:								vomitir dizzine
arbon dioxide O2 formation in closed tanks causes pressure to rise.								breathi difficul
Pressure increase will result in danger of bursting.								larynge oedem
0.4 Conditions to avoid See also section 7.								abdom pain,
Protect from humidity. Polymerisation due to high heat is possible.		Specific target organ						diarrho Target
> ~ 260°C 0.5 Incompatible materials		toxicity - single						organ(s
See also section 7.		exposure (STOT-SE), inhalative:						respira organs
Acids Bases								May ca respira
Amines Alcohols					I	l		irritatio
Vater 0.6 Hazardous decomposition product	8	4,4'-methylenedipheny Toxicity / effect	l diisocyana Endpo	te Value	Unit	Organis	Test method	Notes
See also section 5.2	-	Acute toxicity, by oral	LD50	>2000	mg/k	m Rat	Regulation (EC)	Analog
No decomposition when used as directed.	elegical information	route:	2030	~2000	g g	at	440/2008 B.1	conclus
SECTION 11: Toxic	ological information		154	<u></u>			(ACUTE ORAL TOXICITY)	
			LD50	>9400	1 malk	Rabbit	OECD 402	Analog
1.1 Information on hazard classes as	defined in Regulation (EC) No 1272/2008	Acute toxicity, by dermal route:	LD50	>9400	mg/k g	Rabbit	(Acute Dermal Toxicity)	conclus

age 5 of 11 afety data sheet accord evision date / version: ( eplacing version dated alid from: 01.02.2022 DF print date: 01.02.20	01.02.2022 / version: 01	/ 0008		/6, Annex II			Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOEC	100	mg/m 3		OECD 413 (Subchronic Inhalation Toxicity - 90-Day Study)	Dust, M
DF print date: 01.02.20 eal-it® 710 Montagefix							Reaction mass of 4,4'-r Toxicity / effect	methylenedi Endpo	phenyl diisoo Value	cyanate ar Unit	nd o-(p-isocya Organis	anatobenzyl)phenyl i Test method	isocyanate Notes
cute toxicity, by	LC50	0,368	mg/l/	Rat	OECD 403	Aerosol,	-	int			m	Test metrics	Notes
halation:			4h		(Acute Inhalation Toxicity)	Does not conform	Acute toxicity, by oral route:	LD50	> 10000	mg/k g	Rat	ı]	
					ļ	with EU classificatio	Acute toxicity, by dermal route:	LD50	> 9400	mg/k q	Rabbit		
	1050	4 6				n.	Acute toxicity, by	LC50	0,49	mg/l/	Rat		Mist,
cute toxicity, by halation:	LC50	1,5	mg/l/ 4h		ļ	Aerosol, Expert	inhalation:			4h			Dust:, Does n
kin				Dobbit	OECD 404	judgement.			[			ı İ	conforr
kin prrosion/irritation:				Rabbit	(Acute Dermal	Skin Irrit. 2,						ı	with EU classifi
					Irritation/Corrosio	Analogous conclusion	Skin				Rabbit	OECD 404	n. Irritant
espiratory or skin			+	Guinea	n	Yes	Skin corrosion/irritation:				Rabbit	(Acute Dermal	lintan
ensitisation: espiratory or skin			+	pig Mouse	OECD 429 (Skin	(inhalation) Skin Sens.						Irritation/Corrosio	
ensitisation:				WIGGGC	Sensitisation -	1	Respiratory or skin	+ +			Guinea	n) OECD 406 (Skin	Yes
					Local Lymph Node Assay)		sensitisation:				pig	Sensitisation)	(inhala and sk
erm cell				Salmonel	OECD 471	Negative,	<b>A</b>				2-1-200	S withing (EC)	contac
utagenicity:				la typhimuri	(Bacterial Reverse	Analogous conclusion	Germ cell mutagenicity:				Salmonel la	Regulation (EC) 440/2008	Negati
			<u> </u>	um	Mutation Test) OECD 474						typhimuri	B.13/B.14	
erm cell utagenicity:				Rat	(Mammalian	Negativem ale					um	(REVERSE MUTATION	
-					Èrythrocyte Micronucleus						Í	TEST USING	
					Test)		Germ cell	+ +			Rat	BACTERIA) OECD 474	Negati
erm cell utagenicity:			T	Rat	OECD 489 (In Vivo Mammalian	Negativem ale	mutagenicity:				Í	(Mammalian Erythrocyte	
Ilagemeny.					Alkaline Comet	dit						Micronucleus	
arcinogenicity:				Rat	Assay) OECD 453	Aerosol,	Carcinogenicity:				Rat	Test) OECD 453	Carc.
although nony.				1101	(Combined	Analogous	Carolinogeniony.				Παι	(Combined	Caro.
					Chronic Toxicity/Carcinog	conclusion, Carc. 2					Í	Chronic Toxicity/Carcinog	
1 the toyinity				<b>D</b>	enicity Studies)							enicity Studies)	
eproductive toxicity:	NOAE L	4-12	mg/m 3	Rat	OECD 414 (Prenatal	Aerosol, Analogous	2,2'-Dimorpholinyl diet	hvl ether		_			_
	-				Developmental	conclusion	Toxicity / effect	Endpo	Value	Unit	Organis	Test method	Notes
pecific target organ			+		Toxicity Study)	May cause	Acute toxicity, by oral	LD50	2025	mg/k	m Rat	OECD 401	l
xicity - single xposure (STOT-SE),					ļ	respiratory irritation.	route:			g		(Acute Oral	
halative:							Acute toxicity, by	LD50	3038	mg/k	Rabbit	Toxicity) OECD 402	
pecific target organ xicity - repeated	LOAE L	1	mg/m 3	Rat	OECD 453 (Combined	Aerosol, Analogous	dermal route:			g		(Acute Dermal	
(posure (STOT-RE),	<sup>L</sup>		5		Chronic	conclusion,	Acute toxicity, by	LD50	3038	mg/k	Rat	Toxicity)	
halat.:					Toxicity/Carcinog enicity Studies)	Target organ(s):	dermal route: Skin			g	Rabbit	OECD 404	Not irr
					chicky olddies)	respiratory	corrosion/irritation:				Kabbit	(Acute Dermal	NOUT
pecific target organ	NOAE	0,2	mg/m	Rat	OECD 453	system Aerosol,					Í	Irritation/Corrosio n)	
xicity - repeated	L	0,2	3		(Combined	Analogous	Serious eye				Rabbit	ÓECD 405	Eye Ir
xposure (STOT-RE), halat.:					Chronic Toxicity/Carcinog	conclusion, Target	damage/irritation:				Í	(Acute Eye Irritation/Corrosio	
					enicity Studies)	organ(s):						n)	
						respiratory system	Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Not sensit
ropylene carbonate											F-3	OECD 471	g
oxicity / effect	Endpo	Value	Unit	Organis	Test method	Notes	Germ cell mutagenicity:				Í	(Bacterial	Negat
cute toxicity, by oral	LD50	>5000	mg/k	m Rat	OECD 401	l					Í	Reverse Mutation Test)	
oute:			g		(Acute Oral Toxicity)		Reproductive toxicity	NOAE	300	mg/k	Rat	OECD 422 (Combined	Negat
	LD50	>2000	mg/k	Rabbit	OECD 402		(Effects on fertility):	L		g	Í	(Combined Repeated Dose	
cute toxicity, by			g		(Acute Dermal Toxicity)						Í	Tox. Study with the	
				Rabbit	OECD 404	Not irritant					Í	Reproduction/De	
ermal route:					(Acute Dermal Irritation/Corrosio						Í	velopm. Tox. Screening Test)	
ermal route:					n)							Screening rest)	wateri
cute toxicity, by ermal route: kin orrosion/irritation:			_				Symptoms:	+		1			eyes,
kin brrosion/irritation: erious eye			+	Rabbit	ÓECD 405	Irritant	Symptoms:						
kin orrosion/irritation: erious eye				Rabbit	ÓECD 405 (Acute Eye Irritation/Corrosio	Irritant	Symptoms:						eyes,
ermal route: kin prrosion/irritation: erious eye amage/irritation:					ÓECD 405 (Acute Eye			wder form o	ontaining 1 °	6 or more	of particles	with aerodynamic dia	eyes, redde
ermal route: kin prosion/irritation: arious eye amage/irritation: espiratory or skin mitisation:				Rabbit Human being	ÓECD 405 (Acute Eye Irritation/Corrosio n)	No (skin contact)	Titanium dioxide (in po μm)				-	-	eyes, redde ameter <
ermal route:				Human	ÖECD 405 (Acute Eye Irritation/Corrosio n) OECD 471 (Bacterial	No (skin	Titanium dioxide (in po	owder form c Endpo int	containing 1 % Value	% or more Unit	Organis	with aerodynamic dia Test method	eyes, redder ameter <
ermal route: kin prosion/irritation: erious eye amage/irritation: espiratory or skin ensitisation: erm cell				Human	OECD 405 (Acute Eye Irritation/Corrosio n) OECD 471 (Bacterial Reverse	No (skin contact)	Titanium dioxide (in po µm) Toxicity / effect Acute toxicity, by oral	Endpo		Unit mg/k	-	Test method OECD 425	eyes, redder ameter <
ermal route: kin prrosion/irritation: erious eye amage/irritation: espiratory or skin ensitisation: erm cell utagenicity: erm cell				Human	OECD 405 (Acute Eye Irritation/Corrosio n) OECD 471 (Bacterial Reverse Mutation Test) OECD 474	No (skin contact)	Titanium dioxide (in po μm) Toxicity / effect	Endpo int	Value	Unit	Organis m	Test method	eyes, redder ameter <
rmal route: in rrosion/irritation: srious eye umage/irritation: espiratory or skin nsitisation: erm cell utagenicity: erm cell				Human	OECD 405 (Acute Eye Irritation/Corrosio n) OECD 471 (Bacterial Reverse Mutation Test) OECD 474 (Marmalian	No (skin contact) Negative	Titanium dioxide (in po µm) Toxicity / effect Acute toxicity, by oral	Endpo int	Value	Unit mg/k	Organis m	Test method OECD 425 (Acute Oral Toxicity - Up- and-Down	eyes, redder ameter <
ermal route: kin prosion/irritation: erious eye amage/irritation: espiratory or skin ensitisation: erm cell				Human	ÖECD 405 (Acute Eye Irritation/Corrosio n) OECD 471 (Bacterial Reverse Mutation Test) OECD 474 (Mammalian Erythrocyte Micronucleus	No (skin contact) Negative	Titanium dioxide (in po µm) Toxicity / effect Acute toxicity, by oral	Endpo int	Value	Unit mg/k	Organis m	Test method OECD 425 (Acute Oral Toxicity - Up-	eyes, redder ameter <
rmal route: kin prrosion/irritation: anage/irritation: espiratory or skin espiratory or skin espirat				Human	ÖECD 405 (Acute Eye Imitation/Corrosio n) OECD 471 (Bacterial Reverse Mutation Test) OECD 474 (Marmalian Erythrocyte Micronucleus Test)	No (skin contact) Negative Negative	Titanium dioxide (in po µm) Toxicity / effect Acute toxicity, by oral route: Acute toxicity, by dermal route:	Endpo int LD50 LD50	Value           >5000           >5000	Unit mg/k g mg/k g	Organis m Rat Rabbit	Test method OECD 425 (Acute Oral Toxicity - Up- and-Down	eyes, redder ameter <
rmal route: kin rrrosion/irritation: arious eye amage/irritation: espiratory or skin espiratory or skin espiratory or skin erm cell utagenicity: erm cell utagenicity: erm cell				Human	ÖECD 405 (Acute Eye Imitation/Corrosio n) OECD 471 (Bacterial Reverse Mutation Test) OECD 474 (Marmalian Erythrocyte Micronucleus Test) OECD 482 (Gen. Tox	No (skin contact) Negative	Titanium dioxide (in po µm)           Toxicity / effect           Acute toxicity, by oral route:           Acute toxicity, by dermal route:           Acute toxicity, by inhalation:	Endpo int LD50	Value >5000	Unit mg/k g mg/k	Organis m Rat Rabbit Rat	Test method OECD 425 (Acute Oral Toxicity - Up- and-Down Procedure)	eyes, redder ameter < Notes
rmal route: in rrosion/irritation: srious eye image/irritation: espiratory or skin nsitisation: erm cell utagenicity: erm cell utagenicity: erm cell				Human	ÖECD 405 (Acute Eye Irritation/Corrosio n) OECD 471 (Bacterial Reverse Mutation Test) OECD 474 (Mammalian Erythrocyte Micronucleus Test) OECD 482 (Gen. Tox DNA Damage	No (skin contact) Negative Negative	Titanium dioxide (in po µm) Toxicity / effect Acute toxicity, by oral route: Acute toxicity, by dermal route: Acute toxicity, by inhalation: Skin	Endpo int LD50 LD50	Value           >5000           >5000	Unit mg/k g mg/k g mg/l/	Organis m Rat Rabbit	Test method OECD 425 (Acute Oral Toxicity - Up- and-Down Procedure) OECD 404	eyes, redder ameter < Notes
rmal route: in rrosion/irritation: srious eye image/irritation: espiratory or skin nsitisation: erm cell utagenicity: erm cell utagenicity: erm cell				Human	ÖECD 405 (Acute Eye Imitation/Corrosio n) OECD 471 (Bacterial Reverse Mutation Test) OECD 474 (Mammalian Erythrocyte Micronucleus Test) OECD 482 (Gen. Tox DNA Damage and Repair, Unscheduled	No (skin contact) Negative Negative	Titanium dioxide (in po µm)           Toxicity / effect           Acute toxicity, by oral route:           Acute toxicity, by dermal route:           Acute toxicity, by inhalation:	Endpo int LD50 LD50	Value           >5000           >5000	Unit mg/k g mg/k g mg/l/	Organis m Rat Rabbit Rat	Test method OECD 425 (Acute Oral Toxicity - Up- and-Down Procedure) OECD 404 (Acute Dermal Irritation/Corrosio	eyes, redde ameter < Notes
rmal route: kin rrrosion/irritation: arious eye amage/irritation: espiratory or skin espiratory or skin espiratory or skin erm cell utagenicity: erm cell utagenicity: erm cell				Human	ÖECD 405 (Acute Eye Imitation/Corrosio n) OECD 471 (Bacterial Reverse Mutation Test) OECD 474 (Marmalian Erythrocyte Micronucleus Test) OECD 482 (Gen. Tox DNA Damage and Repair, Unscheduled DNA Synthesis in Marmalian	No (skin contact) Negative Negative	Titanium dioxide (in po µm) Toxicity / effect Acute toxicity, by oral route: Acute toxicity, by dermal route: Acute toxicity, by inhalation: Skin corrosion/irritation:	Endpo int LD50 LD50	Value           >5000           >5000	Unit mg/k g mg/k g mg/l/	Organis m Rat Rabbit Rat Rabbit	Test method OECD 425 (Acute Oral Toxicity - Up- and-Down Procedure) OECD 404 (Acute Dermal Irritation/Corrosio n)	eyes, redder ameter < Notes
rmal route: in rrosion/irritation: arious eye umage/irritation: espiratory or skin institisation: erm cell utagenicity: erm cell utagenicity: erm cell utagenicity:				Human being	ÖECD 405 (Acute Eye Irritation/Corrosio n) OECD 471 (Bacterial Reverse Mutation Test) OECD 474 (Mammalian Erythrocyte Micronucleus Test) OECD 482 (Gen. Tox DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells In Vitro)	No (skin contact) Negative Negative	Titanium dioxide (in po µm) Toxicity / effect Acute toxicity, by oral route: Acute toxicity, by dermal route: Acute toxicity, by inhalation: Skin	Endpo int LD50 LD50	Value           >5000           >5000	Unit mg/k g mg/k g mg/l/	Organis m Rat Rabbit Rat	Test method OECD 425 (Acute Oral Toxicity - Up- and-Down Procedure) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye	eyes, redder
ermal route: kin prosion/irritation: erious eye amage/irritation: espiratory or skin ensitisation: erm cell nutagenicity: erm cell				Human	ÖECD 405 (Acute Eye Imitation/Corrosio n) OECD 471 (Bacterial Reverse Mutation Test) OECD 474 (Mammalian Erythrocyte Micronucleus Test) OECD 482 (Gen. Tox DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells In Vitro) OECD 451 (Carcinogenicity	No (skin contact) Negative Negative	Titanium dioxide (in po µm)           Toxicity / effect           Acute toxicity, by oral route:           Acute toxicity, by dermal route:           Acute toxicity, by inhalation:           Skin corrosion/irritation:           Serious eye	Endpo int LD50 LD50	Value           >5000           >5000	Unit mg/k g mg/k g mg/l/	Organis m Rat Rabbit Rat Rabbit	Test method OECD 425 (Acute Oral Toxicity - Up- and-Down Procedure) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405	eyes, redder ameter < Notes Not irri Mecha irritati
rmal route: in rrosion/initation: srious eye umage/initation: espiratory or skin espiratory or skin		1000		Human being Mouse	ÖECD 405 (Acute Eye Irritation/Corrosio n) OECD 471 (Bacterial Reverse Mutation Test) OECD 474 (Mammalian Erythrocyte Micronucleus Test) OECD 482 (Gen. Tox DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells In Vitro) OECD 451 (Carcinogenicity Studies)	No (skin contact) Negative Negative Negative	Titanium dioxide (in po µm)           Toxicity / effect           Acute toxicity, by oral route:           Acute toxicity, by dermal route:           Acute toxicity, by inhalation:           Skin corrosion/irritation:           Serious eye damage/irritation:           Respiratory or skin	Endpo int LD50 LD50	Value           >5000           >5000	Unit mg/k g mg/k g mg/l/	Organis m Rat Rabbit Rat Rabbit	Test method OECD 425 (Acute Oral Toxicity - Up- and-Down Procedure) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 429 (Skin	eyes, reddei ameter < Notes Not irr Mecha irritati possib Not
rmal route: in rrosion/initation: srious eye umage/initation: espiratory or skin espiratory or skin	NOAE	1000	mg/k g	Human being	ÖECD 405 (Acute Eye Irritation/Corrosio n) OECD 471 (Bacterial Reverse Mutation Test) OECD 474 (Mammalian Erythrocyte Micronucleus Test) OECD 482 (Gen. Tox DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells In Vitro) OECD 451 (Carcinogenicity) Studies) OECD 414 (Prenatal	No (skin contact) Negative Negative	Titanium dioxide (in po µm) Toxicity / effect Acute toxicity, by oral route: Acute toxicity, by dermal route: Acute toxicity, by inhalation: Skin corrosion/irritation: Serious eye damage/irritation:	Endpo int LD50 LD50	Value           >5000           >5000	Unit mg/k g mg/k g mg/l/	Organis m Rat Rabbit Rat Rabbit Rabbit	Test method OECD 425 (Acute Oral Toxicity - Up- and-Down Procedure) OECD 404 (Acute Dermal Inritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n)	eyes, reddei ameter < Notes Not irr Mecha irritati Not irr Mecha irritati Not sensit
rmal route: in rrosion/initation: srious eye umage/initation: espiratory or skin espiratory or skin		1000		Human being Mouse	ÖECD 405 (Acute Eye Imitation/Corrosio n) OECD 471 (Bacterial Reverse Mutation Test) OECD 474 (Marmalian Erythrocyte Micronucleus Test) OECD 482 (Gen. Tox DNA Damage and Repair, Unscheduled DNA Synthesis in Marmalian Cells In Vitro) OECD 451 (Carcinogenicity Studies) OECD 414 (Prenatal Developmental	No (skin contact) Negative Negative Negative	Titanium dioxide (in po µm)           Toxicity / effect           Acute toxicity, by oral route:           Acute toxicity, by dermal route:           Acute toxicity, by inhalation:           Skin corrosion/irritation:           Serious eye damage/irritation:           Respiratory or skin sensitisation:	Endpo int LD50 LD50	Value           >5000           >5000	Unit mg/k g mg/k g mg/l/	Organis m Rat Rabbit Rat Rabbit Rabbit Mouse	Test method OECD 425 (Acute Oral Toxicity - Up- and-Down Procedure) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 429 (Skin Sensitisation - Local Lymph Node Assay)	eyes, reddel ameter < Notes Not irr Not irr Mecha irritati possit Not sensit g
rmal route: kin rrrosion/irritation: arious eye amage/irritation: espiratory or skin espiratory or skin erm cell utagenicity: erm cell utagenicity: arcinogenicity: eproductive toxicity: spiration hazard:		1000		Human being Mouse	ÖECD 405 (Acute Eye Irritation/Corrosio n) OECD 471 (Bacterial Reverse Mutation Test) OECD 474 (Mammalian Erythrocyte Micronucleus Test) OECD 482 (Gen. Tox DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells In Vitro) OECD 451 (Carcinogenicity) Studies) OECD 414 (Prenatal	No (skin contact) Negative Negative Negative Negative Negative	Titanium dioxide (in po µm)           Toxicity / effect           Acute toxicity, by oral route:           Acute toxicity, by dermal route:           Acute toxicity, by inhalation:           Skin corrosion/irritation:           Serious eye damage/irritation:           Respiratory or skin	Endpo int LD50 LD50	Value           >5000           >5000	Unit mg/k g mg/k g mg/l/	Organis m Rat Rabbit Rat Rabbit Rabbit	Test method OECD 425 (Acute Oral Toxicity - Up- and-Down Procedure) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 429 (Skin Sensitisation - Local (Skin Sensitisation) OECD 406 (Skin	eyes, reddei ameter < Notes Not irr Mocha irritati possili Not sensit g No (sk
rmal route: in rrosion/initation: arious eye umage/initation: aspiratory or skin espiratory or skin mistisation: erm cell utagenicity: arcinogenicity: arcinogenicity: approductive toxicity: spiration hazard:		1000		Human being Mouse	ÖECD 405 (Acute Eye Imitation/Corrosio n) OECD 471 (Bacterial Reverse Mutation Test) OECD 474 (Marmalian Erythrocyte Micronucleus Test) OECD 482 (Gen. Tox DNA Damage and Repair, Unscheduled DNA Synthesis in Marmalian Cells In Vitro) OECD 451 (Carcinogenicity Studies) OECD 414 (Prenatal Developmental	No (skin contact) Negative Negative Negative Negative Negative Negative	Titanium dioxide (in poum)           Toxicity / effect           Acute toxicity, by oral route:           Acute toxicity, by dermal route:           Acute toxicity, by dermal route:           Acute toxicity, by inhalation:           Skin corrosion/irritation:           Serious eye damage/irritation:           Respiratory or skin sensitisation:           Respiratory or skin sensitisation:	Endpo int LD50 LD50	Value           >5000           >5000	Unit mg/k g mg/k g mg/l/	Organis m Rat Rabbit Rat Rabbit Rabbit Mouse Guinea	Test method OECD 425 (Acute Oral Toxicity - Up- and-Down Procedure) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 429 (Skin Sensilisation - Local Lymph Node Assay) OECD 406 (Skin Sensilisation)	Not irr Not irr Not irr Not irr Not irr Not irr Not irr Sensit g No (sł contar
rmal route: in rrosion/initation: arious eye umage/initation: aspiratory or skin espiratory or skin mistisation: erm cell utagenicity: arcinogenicity: arcinogenicity: approductive toxicity: spiration hazard:		1000		Human being Mouse	ÖECD 405 (Acute Eye Imitation/Corrosio n) OECD 471 (Bacterial Reverse Mutation Test) OECD 474 (Marmalian Erythrocyte Micronucleus Test) OECD 482 (Gen. Tox DNA Damage and Repair, Unscheduled DNA Synthesis in Marmalian Cells In Vitro) OECD 451 (Carcinogenicity Studies) OECD 414 (Prenatal Developmental	No (skin contact)         Negative	Titanium dioxide (in po µm)           Toxicity / effect           Acute toxicity, by oral route:           Acute toxicity, by dermal route:           Acute toxicity, by inhalation:           Skin corrosion/irritation:           Serious eye damage/irritation:           Respiratory or skin sensitisation:           Respiratory or skin sensitisation:	Endpo int LD50 LD50	Value           >5000           >5000	Unit mg/k g mg/k g mg/l/	Organis m Rat Rabbit Rat Rabbit Rabbit Mouse Guinea pig	Test method OECD 425 (Acute Oral Toxicity - Up- and-Down Procedure) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 429 (Skin Sensitisation - Local Lymph Node Assay) OECD 474 (Mammalian	Not irr Not irr Not irr Not irr Not irr Not irr Sensit g No (sł contai
rmal route: in rrosion/initation: arious eye umage/initation: aspiratory or skin espiratory or skin mistisation: erm cell utagenicity: arcinogenicity: arcinogenicity: approductive toxicity: spiration hazard:		1000		Human being Mouse	ÖECD 405 (Acute Eye Imitation/Corrosio n) OECD 471 (Bacterial Reverse Mutation Test) OECD 474 (Marmalian Erythrocyte Micronucleus Test) OECD 482 (Gen. Tox DNA Damage and Repair, Unscheduled DNA Synthesis in Marmalian Cells In Vitro) OECD 451 (Carcinogenicity Studies) OECD 414 (Prenatal Developmental	No (skin contact) Negative Negative Negative Negative Negative Negative Negative	Titanium dioxide (in poum)           Toxicity / effect           Acute toxicity, by oral route:           Acute toxicity, by dermal route:           Acute toxicity, by dermal route:           Acute toxicity, by inhalation:           Skin corrosion/irritation:           Serious eye damage/irritation:           Respiratory or skin sensitisation:           Respiratory or skin sensitisation:	Endpo int LD50 LD50	Value           >5000           >5000	Unit mg/k g mg/k g mg/l/	Organis m Rat Rabbit Rat Rabbit Rabbit Mouse Guinea pig	Test method OECD 425 (Acute Oral Toxicity - Up- and-Down Procedure) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 406 (Skin Sensitisation) OECD 406 (Skin Sensitisation) OECD 474 (Mammalian Erythrocyte Micronucleus	Not irr Not irr Not irr Not irr Not irr Not irr Sensit g No (sł contai
Irmal route: in rrosion/irritation: arious eye image/irritation: aspiratory or skin nstitisation: arm cell utagenicity: arm cell utagenicity: arcinogenicity: arcinogenicity: arcinogenicity: arcinogenicity: arcinogenicity: arcinogenicity: arcinogenicity: arcinogenicity: arcinogenicity:		1000		Human being Mouse	ÖECD 405 (Acute Eye Imitation/Corrosio n) OECD 471 (Bacterial Reverse Mutation Test) OECD 474 (Marmalian Erythrocyte Micronucleus Test) OECD 482 (Gen. Tox DNA Damage and Repair, Unscheduled DNA Synthesis in Marmalian Cells In Vitro) OECD 451 (Carcinogenicity Studies) OECD 414 (Prenatal Developmental	No (skin contact)         Negative	Titanium dioxide (in po µm)           Toxicity / effect           Acute toxicity, by oral route:           Acute toxicity, by dermal route:           Acute toxicity, by inhalation:           Skin corrosion/irritation:           Serious eye damage/irritation:           Respiratory or skin sensitisation:           Respiratory or skin sensitisation:           Germ cell mutagenicity:	Endpo int LD50 LD50	Value           >5000           >5000	Unit mg/k g mg/k g mg/l/	Organis m Rat Rabbit Rat Rabbit Rabbit Mouse Guinea pig Mouse	Test method OECD 425 (Acute Oral Toxicity - Up- and-Down Procedure) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 429 (Skin Sensitisation - Local Lygyph Node Assay) OECD 429 (Skin Sensitisation) OECD 406 (Skin Sensitisation) OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Not irr Not irr Not irr Not irr Not irritati possit Not sensit g No (sk contac Negat
rmal route: in rrosion/initation: arious eye umage/initation: aspiratory or skin espiratory or skin mistisation: erm cell utagenicity: arcinogenicity: arcinogenicity: approductive toxicity: spiration hazard:		1000		Human being Mouse	ÖECD 405 (Acute Eye Imitation/Corrosio n) OECD 471 (Bacterial Reverse Mutation Test) OECD 474 (Marmalian Erythrocyte Micronucleus Test) OECD 482 (Gen. Tox DNA Damage and Repair, Unscheduled DNA Synthesis in Marmalian Cells In Vitro) OECD 451 (Carcinogenicity Studies) OECD 414 (Prenatal Developmental	No (skin contact) Negative Negative Negative Negative Negative Negative Negative Negative stinal difficulties, headaches, gastrointes tinal disturbance s,	Titanium dioxide (in poum)           Toxicity / effect           Acute toxicity, by oral route:           Acute toxicity, by dermal route:           Acute toxicity, by dermal route:           Acute toxicity, by inhalation:           Skin corrosion/irritation:           Serious eye damage/irritation:           Respiratory or skin sensitisation:           Respiratory or skin sensitisation:	Endpo int LD50 LD50	Value           >5000           >5000	Unit mg/k g mg/k g mg/l/	Organis m Rat Rabbit Rat Rabbit Rabbit Mouse Guinea pig	Test method OECD 425 (Acute Oral Toxicity - Up- and-Down Procedure) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 429 (Skin Sensitisation - Local Lymph Node Assay) OECD 474 (Mammalian Erythrocyte Micronucleus Test) OECD 473 (In Vitro	Not irr Not irr Not irr Not irr Not irritati possit Not sensit g No (sk contac Negat
ermal route: kin prrosion/irritation: erious eye amage/irritation: espiratory or skin ensitisation: erm cell utagenicity: erm cell erm cell			g	Human being Mouse	ÖECD 405 (Acute Eye Imitation/Corrosio n) OECD 471 (Bacterial Reverse Mutation Test) OECD 474 (Mammalian Erythrocyte Micronucleus Test) OECD 482 (Gen. Tox DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells In Vitro) OECD 451 (Carcinogenicity Studies) OECD 414 (Prenatal Developmental Toxicity Study)	No (skin contact) Negative Negative Negative Negative Negative Negative Streathing difficulties, headaches, gastrointes tinal disturbance	Titanium dioxide (in poum)           Toxicity / effect           Acute toxicity, by oral route:           Acute toxicity, by dermal route:           Acute toxicity, by dermal route:           Acute toxicity, by inhalation:           Skin corrosion/irritation:           Serious eye damage/irritation:           Respiratory or skin sensitisation:           Germ cell mutagenicity:	Endpo int LD50 LD50	Value           >5000           >5000	Unit mg/k g mg/k g mg/l/	Organis m Rat Rabbit Rat Rabbit Rabbit Mouse Guinea pig Mouse	Test method OECD 425 (Acute Oral Toxicity - Up- and-Down Procedure) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 429 (Skin Sensilisation - Local Lymph Node Assay) OECD 406 (Skin Sensilisation) OECD 474 (Mammalian Erythrocyte Micronucleus Test) OECD 473 (In	eyes, redder ameter < Notes Not irri Mecha irritati Not isensti
ermal route: kin prrosion/irritation: erious eye amage/irritation: espiratory or skin espiratory or skin utagenicity: erm cell utagenicity: erm cell utagenicity: eproductive toxicity: espiration hazard: ymptoms: pecific target organ		1000	g mg/k	Human being Mouse	ÖECD 405 (Acute Eye Imitation/Corrosio n) OECD 471 (Bacterial Reverse Mutation Test) OECD 474 (Marmalian Erythrocyte Micronucleus Test) OECD 482 (Gen. Tox DNA Damage and Repair, Unscheduled DNA Synthesis in Marmalian Cells In Vitro) OECD 451 (Carcinogenicity Studies) OECD 414 (Prenatal Developmental Toxicity Study) OECD 408	No (skin contact) Negative Negative Negative Negative Negative Negative No breathing difficulties, headaches, gastrointes tinal disturbance s, dizziness,	Titanium dioxide (in pound)           Toxicity / effect           Acute toxicity, by oral route:           Acute toxicity, by dermal route:           Acute toxicity, by dermal route:           Acute toxicity, by inhalation:           Skin corrosion/irritation:           Serious eye damage/irritation:           Respiratory or skin sensitisation:           Germ cell mutagenicity:           Germ cell mutagenicity:	Endpo int LD50 LD50	Value           >5000           >5000	Unit mg/k g mg/k g mg/l/	Organis m Rat Rabbit Rat Rabbit Rabbit Mouse Guinea pig Mouse Mammali an	Test method OECD 425 (Acute Oral Toxicity - Up- and-Down Procedure) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 429 (Skin Sensitisation - Local Lymph Node Assay) OECD 474 (Marmalian Erythrocyte Micronucleus Test) OECD 473 (In Vitro Marmalian Chromosome Aberration Test)	eyes, redder ameter < Notes Not irr Not irr Not irr Not irr Not irr Sensiti g No (sk contac Negat
rmal route: kin kin serve arrious eye amage/irritation: espiratory or skin nstituation: erm cell utagenicity: erm cell erm cell utagenicity: erm cell utagenicity: erm cell erm cel			g	Human being Mouse	ÖECD 405 (Acute Eye Imitation/Corrosio n) OECD 471 (Bacterial Reverse Mutation Test) OECD 474 (Mammalian Erythrocyte Micronucleus Test) OECD 482 (Gen. Tox DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells In Vitro) OECD 451 (Carcinogenicity Studies) OECD 414 (Prenatal Developmental Toxicity Study)	No (skin contact) Negative Negative Negative Negative Negative Negative No breathing difficulties, headaches, gastrointes tinal disturbance s, dizziness,	Titanium dioxide (in poum)           Toxicity / effect           Acute toxicity, by oral route:           Acute toxicity, by dermal route:           Acute toxicity, by dermal route:           Acute toxicity, by inhalation:           Skin corrosion/irritation:           Serious eye damage/irritation:           Respiratory or skin sensitisation:           Germ cell mutagenicity:	Endpo int LD50 LD50	Value           >5000           >5000	Unit mg/k g mg/k g mg/l/	Organis m Rat Rabbit Rat Rabbit Rabbit Mouse Guinea pig Mouse	Test method OECD 425 (Acute Oral Toxicity - Up- and-Down Procedure) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 429 (Skin Sensitisation) OECD 429 (Skin Sensitisation) OECD 474 (Mammalian Erythrocyte Micronucleus Test) OECD 473 (In Vitro Mammalian Chromosome	eyes, redder ameter < Notes Not irr Not irr Mecha irritati possib Not sensiti g No (sk contac Negat

Page 6 of 11 Safety data sheet accordin Revision date / version: 0' Replacing version dated / Valid from: 01.02.2022	1.02.2022 / version: 01	/ 0008		6, Annex II			Skin corrosion/irritation:					Rabbit Rabbit	OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405	Not irri
PDF print date: 01.02.202 Seal-it® 710 Montagefix-F							damage/irritation:				l		(Acute Eye Irritation/Corrosio n)	
Germ cell mutagenicity:					OECD 476 (In Vitro Mammalian Cell Gene Mutation	Negative	Germ cell mutagenicity:						n) OECD 471 (Bacterial Reverse Mutation Test)	Negat
Germ cell			++		Test) OECD 471	Negative	Aspiration hazard:							No
mutagenicity:		I			(Bacterial Reverse		Calcium carbonate Toxicity / effect	End	lpo Va	alue	Unit	Organis	Test method	Notes
Reproductive toxicity			+	Rat	Mutation Test) OECD 414	No	Acute toxicity, by or	ral LD5	0 >2	2000	mg/k	m Rat	OECD 420	+
(Developmental toxicity):		I			(Prenatal Developmental	indications of such an	route:				g		(Acute Oral toxicity - Fixe	
Specific target organ			+ +		Toxicity Study)	effect. Not irritant (respirator)	Acute toxicity, by or	ral LD5	0 > !	5000	mg/k	Rat	Dose Procedure)	
toxicity - single exposure (STOT-SE):						(respiratory tract).	Acute toxicity, by	LD5	0 >2	2000	g mg/k	Rat	OECD 402	
Symptoms:		I				mucous membrane	dermal route:				g		(Acute Dermal Toxicity)	
		I				irritation, coughing,	Acute toxicity, by inhalation:	LC5	i0 >3	'	mg/l/ 4h	Rat	OECD 403 (Acute Inhalation	
		I				respiratory distress, dpring of	Skin					Rabbit	Toxicity) OECD 404	Not irr
	NOAE	0500		D at		drying of the skin.	corrosion/irritation:				I		(Acute Dermal Irritation/Corrosio	
Specific target organ toxicity - repeated	NOAE L	3500	mg/k g/d	Rat		90d	Serious eye			$\rightarrow$		Rabbit	n) OECD 405	Not irri
exposure (STOT-RE), oral:		<u> </u>					damage/irritation:				l		(Acute Eye Irritation/Corrosio	Mecha
Specific target organ toxicity - repeated	NOAE C	10	mg/m 3	Rat		90d	Respiratory or skin						n)	possib No (sk
exposure (STOT-RE), inhalat.:		L					sensitisation: Germ cell						in vitro	contac Negat
4,4'-methylenediphenyl							mutagenicity: Carcinogenicity:			$\rightarrow$				Negat
Toxicity / effect	Endpo int	Value	Unit	Organis m	Test method	Notes	-				l			admin d as C
Acute toxicity, by oral route:	LD50	>10000	mg/k g	Rat	OECD 401 (Acute Oral		Reproductive toxicit	tv:	-+-	$\rightarrow$				lactate Negat
Acute toxicity, by oral	LD50	>2000	mg/k	Rat	Toxicity) Regulation (EC)						l			admin d as C
route:			g		440/2008 B.1 (ACUTE ORAL		, L							carbo
Acute toxicity, by	LD50	>9400	mg/k	Rabbit	TOXICITY) OECD 402		Reaction mass of Toxicity / effect	4,4'-methyle End		nyl diisoc alue	yanate a Unit	nd o-(p-isocya Organis	natobenzyl)phenyl Test method	isocyana Notes
dermal route:		-	g	-	(Acute Dermal Toxicity)		Acute toxicity, by or	int	-	2000	mg/k	m Rat		
Acute toxicity, by inhalation:	LC50	>2,24	mg/l/ 4h	Rat	OECD 403 (Acute Inhalation	Aerosol	route: Acute toxicity, by or	LD5		9400	g mg/k	Rabbit	OECD 402	Analo
Acute toxicity, by	LC50	0,368	mg/l/	Rat	Toxicity) OECD 403	Does not	dermal route:			9400	g g	Nauen	(Acute Dermal Toxicity)	conclu
inhalation:	LUGG	0,000	4h	Ναι	(Acute Inhalation Toxicity)	conform with EU	Acute toxicity, by inhalation:	LC5	i0 0,4	49	mg/l/ 4h	Rat	ΙΟΧΙΟΙΙΥ	Mist, I
		I			I UXIONY /	classificatio	Skin				411	Rabbit	OECD 404	Skin I
Skin			+ +	Rabbit	OECD 404 (Acute Dermal	Irritant,	corrosion/irritation:				l		(Acute Dermal Irritation/Corrosio	
corrosion/irritation:	I	I			(Acute Dermal Irritation/Corrosio	Analogous conclusion	Serious eye		_			Rabbit	n) OECD 405	Slight
Serious eye				Rabbit	n) OECD 405 (Aguto Evo	Irritant,	damage/irritation:				l		(Acute Eye Irritation/Corrosio	irritan
damage/irritation:	I	I			(Acute Eye Irritation/Corrosio	Analogous conclusion	Respiratory or skin		_			Guinea	n) OECD 406 (Skin	Skin S
Respiratory or skin			+	Mouse	n) OECD 429 (Skin Sepsitisation -	Yes (skin	sensitisation: Respiratory or skin					pig Guinea	Sensitisation)	1 Resp.
sensitisation:	I	I			Sensitisation - Local Lymph	contact), Analogous	sensitisation: Germ cell					pig Rat	OECD 474	Sens. Negat
Respiratory or skin			++	Guinea	Node Assay)	conclusion Yes	mutagenicity:				l		(Mammalian Erythrocyte	Analo
sensitisation: Germ cell			+	pig Rat	OECD 474	(inhalation) Negative							Micronucleus Test)	
mutagenicity:		I			(Mammalian Erythrocyte		Reproductive toxicit	ty: NOE	EC 4		mg/m 3	Rat	OECD 414 (Prenatal	Negat
		I			Micronucleus Test)								Developmental Toxicity Study)	
Germ cell mutagenicity:					OECD 471 (Bacterial	Negative, Analogous	Carcinogenicity:					Rat	OECD 453 (Combined	Carc.
		ı			Reverse Mutation Test)	conclusion					l		Chronic Toxicity/Carcinog	
Reproductive toxicity:	NOAE L	4	mg/m 3	Rat	OECD 414 (Prenatal	Negative, Analogous	<u>ا</u> لــــــــــــــــــــــــــــــــــــ						enicity Studies)	<u> </u>
		ı			Developmental Toxicity Study)	conclusion	11.2. Informati Seal-it® 710 Monta		her haz	ards				
Carcinogenicity:					OECD 453 (Combined	Analogous conclusion,	Toxicity / effect	End	po Va	alue	Unit	Organis m	Test method	Note
		I			Chronic Toxicity/Carcinog	Limited evidence	Endocrine disrupting					m		Does apply
		I			enicity Studies)	of a carcinogeni	Other information:							mixtu No otl
Symptoms:						c effect. respiratory					I			releva
		I				distress, coughing,					l			avail on ac
		I				mucous membrane					I			effect health
Specific target organ						irritation Irritation of								Hear
toxicity - single exposure (STOT-SE),		I				the respiratory		SEC	TION	12: Ec	ologi	ical inform	nation	
inhalative: Specific target organ						tract Irritation of	Possibly more infor	mation on er	vironmen	tal effects	see Sec	tion 2.1 (classif	fication).	
toxicity - single exposure (STOT-SE),		I				the respiratory	Seal-it® 710 Monta Toxicity / effect			Valu	Unit	Organism	Test	Notes
inhalative:		I				tract, Target	12.1. Toxicity to	t	e	e		0.94	method	n.d.a.
		I				organ(s): respiratory	fish: 12.1. Toxicity to		<u> </u>	ļ!	<b> </b>	<u> </u>		n.d.a.
1						system	daphnia: 12.1. Toxicity to		<u> </u>	ļ!	ļ			n.d.a.
	Fridaya	Value	Unit	Organis	Test method	Notes	algae:							11.u.u
	Fnabo	Tu		m										
Silica, amorphous Toxicity / effect Acute toxicity, by oral	Endpo int LD50	~5000	ma/k	Rat	OECD 423									
		>5000	mg/k g	Rat	OECD 423 (Acute Oral Toxicity - Acute									
Toxicity / effect Acute toxicity, by oral	int	>5000		Rat	(Acute Oral									

Valid from: 01.02.2 PDF print date: 01. Seal-it® 710 Monta 12.2. Persistence and degradability:	.02.2022						With water at the interface, transforms								bound halogens which can contribute to the AO2 value in waste water.
							slowly with formation of CO2	4,4'-methylenedip Toxicity / effect	Endpoin	Tim	Valu	Unit	Organism	Test	Notes
12.3. Bioaccumulative potential: 12.4. Mobility in soil:							into a firm, insoluble reaction product with a high melting point (polycarba mide). According to experience available to date, polycarbam ide is inert and non- degradable n.d.a.	Other information:	t	e	e			method	According to experience available to date, polycarban ide is inert and non- degradable ., With water at the interface, transforms slowly with formation of CO2 into a firm, insoluble reaction product with a high meliting
12.5. Results of PBT and vPvB assessment 12.6. Endocrine							n.d.a. Does not	12.4. Mobility in	н		0,02	Pa*m			point (polycarba mide).
disrupting properties: 12.7. Other							apply to mixtures.	12.4. Mobility in soil: 12.1. Toxicity to fish:	Henry) LC50	96h	29 >10 00	3/mol mg/l	Brachydanio rerio	OECD 203 (Fish, Acute	Analogous conclusion
adverse effects:							information available on other adverse effects on the environmen t.	12.2. Persistence and degradability:		28d	0	%		Toxicity Test) OECD 302 C (Inherent Biodegradab ility - Modified MITI Test	Not biodegrada ble, With water at the interface,
Diphenylmethane Toxicity / effect	diisocyanate Endpoin	isomere Tim	s and ho Valu	mologue: Unit	organism	Test	Notes							(11))	transforms slowly with formation
12.5. Results of PBT and vPvB assessment	t	e	e			method	No PBT substance, No vPvB substance								of CO2 into a firm, insoluble reaction product
12.1. Toxicity to fish: 12.1. Toxicity to	LC50 NOEC/N	96h 21d	>10 00 >=	mg/l	Brachydanio rerio Daphnia	OECD 203 (Fish, Acute Toxicity Test) OECD 211									with a high melting point (polycarba mide).,
daphnia: 12.1. Toxicity to daphnia:	OEL EC50	24h	10 >10 00	mg/l	magna Daphnia magna	(Daphnia magna Reproductio n Test) OECD 202 (Daphnia sp. Acute									According to experience available to date, polycarban ide is inert
12.2. Persistence and degradability:		28d	0	%	activated sludge	Immobilisati on Test) OECD 301 C (Ready Biodegradab ility -	Not biodegrada ble								and non- degradable ., Analogous conclusion
12.3. Bioaccumulative potential:	BCF	42d	<14		Cyprinus caprio	Modified MITI Test (I)) OECD 305 (Bioconcentr ation - Flow-	A notable biological accumulati	12.1. Toxicity to daphnia:	EC50	24h	>10 00	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisati on Test)	Analogous conclusion
potoniai						Through Fish Test)	on potential is not to be expected (LogPow 1-	12.1. Toxicity to daphnia:	NOEC/N OEL	21d	>10	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisati on Test)	Analogous conclusion
12.1. Toxicity to algae:	EC50	72h	>16 40	mg/l	Desmodesm us subspicatus	OECD 201 (Alga, Growth Inhibition	3).	12.3. Bioaccumulative potential:	Log Pow		5,22				A notable biological accumulati on potential
Toxicity to bacteria:	EC50	3h	>10 0	mg/l	activated sludge	Test) OECD 209 (Activated									has to be expected (LogPow >
						Sludge, Respiration Inhibition Test (Carbon and		12.1. Toxicity to algae:	ErC50	72h	>16 40	mg/l	Desmodesm us subspicatus	OECD 201 (Alga, Growth Inhibition Test)	3). Analogous conclusion
Other organisms:	NOEC/N OEL	14d	>10 00	mg/k g	Eisenia foetida	Ammonium Oxidation)) OECD 207 (Earthworm,		12.3. Bioaccumulative potential:	BCF	28d	200		Cyprinus caprio	IUCLID Chem. Data Sheet (ESIS)	Not to be expected
Other	BOD	28d	<10	%		Acute Toxicity Tests) OECD 302		12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
information:						C (Inherent Biodegradab ility - Modified MITI Test (II))		Other information:	AOX						Does not contain any organically bound halogens which can contribute to the AOX value in waste water.

B Page 8 of 11 Safety data sheet a Revision date / vers Replacing version o Valid from: 01.02.2 PDF print date: 01. Seal-it® 710 Monta	sion: 01.02.20 dated / versior 022 02.2022	22 / 000	8		6, Annex II			Toxicity to bacteria:	EC50		>10 0	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon	
Toxicity to bacteria:	EC50	3h	>10 0	mg/l	activated sludge	OECD 209 (Activated	Analogous conclusion							and Ammonium Oxidation))	
					-	Sludge, Respiration Inhibition		2,2'-Dimorpholiny							
						Test (Carbon		Toxicity / effect 12.1. Toxicity to	Endpoin t EC50	Tim e 48h	Valu e	Unit	Organism Daphnia	Test method OECD 202	Notes
						and Ammonium Oxidation))		daphnia:	ECSU	4011	>10 0	mg/l	magna	(Daphnia sp. Acute Immobilisati	
Other organisms:	NOEC/N OEL	14d	>10 00	mg/k g	Lactuca sativa	OECD 208 (Terrestrial Plants, Growth Test)	Analogous conclusion	12.1. Toxicity to algae:	EC50	72h	>10 0	mg/l	Selenastrum capricornut um	on Test) OECD 201 (Alga, Growth Inhibition	
Other organisms:	NOEC/N OEL	14d	>10 00	mg/k g	Avena sativa	OECD 208 (Terrestrial Plants, Growth Test)	Analogous conclusion	12.1. Toxicity to algae:	NOEC/N OEL	72h	100	mg/l		Test) OECD 201 (Alga, Growth Inhibition	
Toxicity to annelids:	NOEC/N OEL	14d	> 100 0	mg/k g	Lumbricus terrestris	OECD 207 (Earthworm, Acute Toxicity Tests)	Analogous conclusion	12.1. Toxicity to fish:	LC50	96h	>21 50	mg/l	Brachydanio rerio	Test) OECD 203 (Fish, Acute Toxicity	
Toxicity to annelids:	EC50	14d	>10 00	mg/k g	Eisenia foetida	OECD 207 (Earthworm, Acute Toxicity	Analogous conclusion	12.2. Persistence and degradability:		28d	4	%		Test) OECD 301 C (Ready Biodegradab ility -	Not readi biodegrad ble
Propylene carbon	ate					Tests)		12.3.	Log Pow		0,5			Modified MITI Test (I)) OECD 117	
Toxicity / effect 12.1. Toxicity to	Endpoin t LC50	<b>Tim</b> e 96h	Valu e >10	Unit mg/l	Organism Cyprinus	Test method 92/69/EC	Notes	Bioaccumulative potential:						(Partition Coefficient (n-	
fish: 12.1. Toxicity to daphnia:	EC50	48h	00 >10 00	mg/l	caprio Daphnia magna	OECD 202 (Daphnia								octanol/wate r) - HPLC method)	
					magna	sp. Acute Immobilisati		12.3. Bioaccumulative	BCF	56d	3				
12.1. Toxicity to	EC50	72h	>90	mg/l	Desmodesm	on Test) OECD 201		potential: Toxicity to	EC50	3h	>10	mg/l	activated	OECD 209	
algae:			0	01	us subspicatus	(Alga, Growth Inhibition Test)		bacteria:			00		sludge	(Activated Sludge, Respiration Inhibition	
12.2. Persistence and degradability:			83,5 -87- 7	%		OECD 301 B (Ready Biodegradab ility - Co2 Evolution	Readily biodegrada ble29d							Test (Carbon and Ammonium Oxidation))	
12.2.	DOC	14d	90-	%		Test) OECD 301		Titanium dioxide	(in powder fo	rm conta	۱ining 1 %	% or more	of particles with		iameter <= 1
Persistence and degradability:			100			A (Ready Biodegradab		μm) Toxicity / effect	Endpoin	Tim	Valu	Unit	Organism	Test	Notes
12.3.	Log Pow					ility - DOC Die-Away Test)	Bioaccumul	12.1. Toxicity to fish:	t LC50	<b>e</b> 96h	<b>e</b> >10 0	mg/l	Oncorhynch us mykiss	Method OECD 203 (Fish, Acute Toxicity	
Bioaccumulative potential:			0,48				ation is unlikely (LogPow < 1)., calculated	12.1. Toxicity to daphnia:	LC50	48h	>10 0	mg/l	Daphnia magna	Test) OECD 202 (Daphnia sp. Acute Immobilisati	
12.5. Results of PBT and vPvB assessment							value No PBT substance, No vPvB	12.1. Toxicity to algae:	EC50	72h	16	mg/l	Pseudokirch neriella subcapitata	on Test) U.S. EPA- 600/9-78- 018	
Toxicity to	EC10	16h	740	mg/l	Pseudomon	DIN 38412	substance	12.2. Persistence and							Not relevant
bacteria: Other information:	AOX		0	%	as putida	T.8	Does not contain any	degradability:							for inorganic substanc
							organically bound halogens	12.3. Bioaccumulative	BCF	42d	9,6				Not to be expected
							which can contribute to the AOX	potential: 12.3. Bioaccumulative potential:	BCF	14d	19- 352				Oncorhyr hus myki
							value in waste	12.4. Mobility in soil:							Negative
Reaction mass of	4 4'-methyler	edinher		vanate ar	nd o-(n-isocyana	tobenzvi)nbenvi	water.	12.5. Results of PBT and vPvB assessment							No PBT substanc No vPvB
Toxicity / effect	Endpoin	Tim	Valu	Unit	Organism	Test method	Notes	Toxicity to			>50	mg/l	Escherichia		substanc
12.2. Persistence and degradability:		28d	0	%	activated sludge	OECD 302 C (Inherent Biodegradab ility -		bacteria: Toxicity to bacteria:	LC0	24h	00 >10 000	mg/l	coli Pseudomon as fluorescens		
10.0	267					Modified MITI Test (II))		Toxicity to annelids: Water solubility:	NOEC/N OEL		>10 00	mg/k g	Eisenia foetida		Insoluble
12.3. Bioaccumulative potential:	BCF		200				Not to be expected	4,4'-methylenedip	henvi diisoo	anate	1	1		1	°C
	LC50	96h	> 100	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute		Toxicity / effect	Endpoin t	Tim	Valu e	Unit	Organism	Test method	Notes
12.1. Toxicity to		21d	0 >10	mg/l	Daphnia magna	Toxicity Test) OECD 211 (Daphnia		12.1. Toxicity to fish:	LC50	96h	>10 00	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity	
12.1. Toxicity to fish: 12.1. Toxicity to	NOEC/N		1		mayna	magna Reproductio		12.1. Toxicity to fish:	LC0	96h	>10 00	mg/l	Brachydanio rerio	Test) OECD 203 (Fish, Acute Toxicity	Analogo conclusio
12.1. Toxicity to fish: 12.1. Toxicity to daphnia:	OEL		>	ma/l	Danhnia	n Test) OECD 202								Test)	
12.1. Toxicity to fish: 12.1. Toxicity to daphnia: 12.1. Toxicity to daphnia:		24h	> 100 0	mg/l	Daphnia magna	n Test) OECD 202 (Daphnia sp. Acute Immobilisati on Test)		12.1. Toxicity to daphnia:	EC50	24h	>10 00	mg/l	Daphnia magna	Test) OECD 202 (Daphnia sp. Acute Immobilisati on Test)	Analogo conclusio

B) Page 9 of 11 Safety data sheet a Revision date / vers Replacing version o Valid from: 01.02.2 PDF print date: 01.	sion: 01.02.20 dated / versior 022 02.2022	22 / 0008	3		5, Annex II			Toxicity to annelids:	EC50	14d	>= 100 0	mg/k g	Eisenia foetida	OECD 207 (Earthworm, Acute Toxicity Tests)	
Seal-it® 710 Monta	0							Silica, amorphous Toxicity / effect	Endpoin	Tim	Valu	Unit	Organism	Test	Notes
12.1. Toxicity to algae:	EC50	72h	164 0	mg/l	Desmodesm us subspicatus	OECD 201 (Alga, Growth Inhibition Test)	Analogous conclusion	12.1. Toxicity to fish:	t EC0	<b>e</b> 96h	<b>e</b> >10 000	mg/l	Brachydanio rerio	method OECD 203 (Fish, Acute Toxicity	
12.1. Toxicity to algae:	NOEC/N OEL	72h	164 0	mg/l	Desmodesm us subspicatus	OECD 201 (Alga, Growth Inhibition Test)	Analogous conclusion	12.1. Toxicity to daphnia:	EC0	24h	>10 00	mg/l	Daphnia magna	Test) OECD 202 (Daphnia sp. Acute Immobilisati on Test)	
12.2. Persistence and degradability:		28d	0	%	activated sludge	OECD 302 C (Inherent Biodegradab ility - Modified	With water at the interface, transforms slowly with	12.1. Toxicity to algae:	ErC50	72h	>=1 000 0	mg/l	Scenedesm us subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
						MITI Test (II))	formation of CO2 into a firm, insoluble reaction product with a high melting point	12.2. Persistence and degradability:							Inorganic products cannot be eliminated from water through biological purification methods.
							(polycarba mide)., According to experience	12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
							available to date,	Calcium carbonat		Tim	Volu	Unit	Organism	Test	Notos
							polycarbam ide is inert	Toxicity / effect 12.1. Toxicity to	Endpoin t EC50	<b>Tim</b> e 48h	Valu e >10	Unit	Organism Daphnia	nethod OECD 202	Notes
12.2. Persistence and	BOD	28d	0	%		OECD 302 C (Inherent	and non- degradable With water at the	daphnia: 12.1. Toxicity to	EC50	4011 72h	>10 0 >14	mg/l mg/l	magna Desmodesm	(Daphnia sp. Acute Immobilisati on Test) OECD 201	
degradability:						Biodegradab ility - Modified MITI Test (II))	interface, transforms slowly with formation of CO2	algae:	EC50	3h	>10	mg/l	us subspicatus activated	(Alga, Growth Inhibition Test) OECD 209	
							into a firm, insoluble reaction product with a high melting point (polycarba mide).,	bacteria:			00	Ū	sludge	(Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	
							According to experience available to date, polycarbam	Toxicity to annelids:					Eisenia foetida	OECD 207 (Earthworm, Acute Toxicity Tests)	Negative
12.3.	BCF	28d	200		Cyprinus	OECD 305	ide is inert and non- degradable A notable	12.3. Bioaccumulative potential:							Not relevant for inorganic substance
Bioaccumulative potential:					caprio	(Bioconcentr ation - Flow- Through Fish Test)	biological accumulati on potential has to be expected (LogPow >	12.4. Mobility in soil:							Not relevant for inorganic substances Not
12.3. Bioaccumulative potential:	Log Pow		4,51 -5,2 2			OECD 117 (Partition Coefficient (n-	3). A notable biological accumulati on	PBT and vPvB assessment							relevant for inorganic substances
						octanol/wate r) - HPLC	potential has to be	12.1. Toxicity to fish:	LC50	96h	>10 000	mg/l	Oncorhynch us mykiss		•
12.5. Results of						method)	expected (LogPow > 3). No PBT	12.1. Toxicity to fish:	LC50	96h	>10 0	mg/l	Oncorhynch us mykiss	OECD 203 (Fish, Acute Toxicity Test)	
PBT and vPvB assessment							substance, No vPvB substance	12.1. Toxicity to daphnia:	EC50	48h	>10 00	mg/l	Daphnia magna		
Toxicity to bacteria:	EC50	3h	>10 0	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration	substance	12.1. Toxicity to algae: 12.2. Persistence and	EC50	72h	>20 0	mg/l	Desmodesm us subspicatus		Inorganic
Toxicity to	EC50		>10	mg/l	activated	Inhibition Test (Carbon and Ammonium Oxidation)) OECD 209	Analogous	degradability:							cannot be eliminated from water through biological purification
bacteria:	2000	511	0	l ing/i	sludge	(Activated Sludge,	conclusion	Reaction mass of	1 Al-motheda	adiate	vi dile -	vanate -		obonzulation	methods.
						Respiration		Toxicity / effect	4,4'-methyler Endpoin	Tim	Valu e	yanate an Unit	Organism	Test method	Notes
						Test (Carbon and Ammonium		12.3. Bioaccumulative potential: 12.5. Results of	BCF	e	е 200- 439		Cyprinus caprio	mealou	Not to be expected No PBT
Other						Oxidation))	Does not	PBT and vPvB assessment							substance, No vPvB
information:							contain any organically bound halogens	12.1. Toxicity to fish:	LC50	96h	> 100 0	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity Test)	substance
							which can contribute to the AOX value in waste	12.1. Toxicity to daphnia:	NOEC/N OEL	21d	>= 10	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproductio n Test)	
	<u> </u>			<u> </u>	<u> </u>	l	water.	12.1. Toxicity to daphnia:	EC50	24h	> 100 0	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisati on Test)	

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12.1. Toxicity to algae:	EC50	72h	>16 40	mg/l	Desmodesm us subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:			0	%		mod. MITI- Test	Not biodegrada ble
12.3. Bioaccumulative potential:	Log Pow		4,51			OECD 117 (Partition Coefficient (n- octanol/wate r) - HPLC method)	22 °C, pH = 7
Toxicity to bacteria:	EC50	3h	>10 0	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	
Toxicity to annelids:	EC50	14d	>10 00	mg/k g	Eisenia foetida	OECD 207 (Earthworm, Acute Toxicity Tests)	

# **SECTION 13: Disposal considerations** 13.1 Waste treatment methods For the substance / mixture / residual amounts EC disposal code no.

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 08 05 01 waste isocyanates Recommendation:

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

E.g. suitable incineration plant. Hardened product: E.g. dispose at suitable refuse site.

For contaminated packing material Pay attention to local and national official regulat ficial regulations

Empty container completely

Uncontaminated packaging can be recycled. Dispose of packaging that cannot be cleaned in the same manner as the substance. 15 01 10 packaging containing residues of or contaminated by hazardous substance

#### **SECTION 14: Transport information**

. .

# **General statements**

14.1. UN number of ID number:	n.a.
Transport by road/by rail (ADR/RID)	
14.2. UN proper shipping name:	
14.3. Transport hazard class(es):	n.a.
14.4. Packing group:	n.a.
Classification code:	n.a.
LQ:	n.a.
14.5. Environmental hazards:	Not applicable
Tunnel restriction code:	
Transport by sea (IMDG-code)	
14.2. UN proper shipping name:	
14.3. Transport hazard class(es):	n.a.
14.4. Packing group:	n.a.
Marine Pollutant:	n.a
14.5. Environmental hazards:	Not applicable
Transport by air (IATA)	
14.2. UN proper shipping name:	
14.3. Transport hazard class(es):	n.a.
14.4. Packing group:	n.a.
14.5. Environmental hazards:	Not applicable
14.6. Special precautions for user	
Unless specified otherwise, general measures for sal	fe transport must be followed.

14.7. Maritime transport in bulk according to IMO instruments Non-dangerous material according to Transport Regulations

# **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 Diphenylmethanediisocyanate, isomeres and homologues 4,4'-methylenediphenyl diisocyanate Reaction mass of 4,4'-methylenediphenyl diisocyanate Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate Comply with national regulations/laws governing maternity protection (national implementation of the Directive 92/85/EEC)! Comply with trade association/occupational health regulations. Regulation (EC) No 1907/2006, Annex XVII Product contains azo dye. It is suspected that azo groups can be enzymatically split in the body. Directive 2010/75/EU (VOC): 0% 15.2 Chemical safety assessment A chemical safety assessment is not provided for mixtures **SECTION 16: Other information** 

Revised sections: 3.11.12 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) No. 1272/2008 (CLP)	Evaluation method used
STOT RE 2, H373	Classification according to calculation procedure.
Eye Irrit. 2, H319	Classification according to calculation procedure.
STOT SE 3, H335	Classification according to calculation procedure.
Skin Irrit. 2, H315	Classification according to calculation procedure.
Resp. Sens. 1, H334	Classification according to calculation procedure.
Skin Sens. 1, H317	Classification according to calculation procedure.
Carc. 2, H351	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). H351 Suspected of causing cancer by inhalation.

14373 May cause damage to organs through prolonged or repeated exposure by inhalation. 14373 May cause damage to organs through prolonged or repeated exposure by inhalation. 14317 May cause an allergic skin reaction. 14317 Qauses stafficients even initiation.

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation.

 $\begin{array}{l} \text{STOT RE} & - \text{Specific target organ toxicity - repeated exposure} \\ \text{Eye Irrit.} & - \text{Eye irritation} \\ \text{STOT SE} & - \text{Specific target organ toxicity - single exposure - respiratory tract irritation} \\ \text{Skin Irrit.} & - \text{Skin irritation} \end{array}$ Resp. Sens. — Respiratory sensitization Skin Sens. — Skin sensitization Carc. — Carcinogenicity Acute Tox. — Acute toxicity - inhalation

#### 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) (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 German Environment Agency Figure in monitories and a second secon 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. a Art., Art. no./ ASTM Adsolution of gain charger compounds approximately Article number 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

BCF BSEF The International Bromine Council

body weight Chemical Abstracts Service bw CAS

- 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 dw

Dissolved organic carbon 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)

ÈC European Community

ECHA

European Community European Chemicals Agency = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect European Economic Community ECx, ELx (x EEC

EINECS European Inventory of Existing Commercial Chemical Substances European List of Notified Chemical Substances ELINCS

EN

EP4

European Norms United States Environmental Protection Agency (United States of America) ErLx (x = 10, 50) Effect Concentration/Level of x % on inhibition of the growth rate ErCx,  $E\mu Cx$ , ErLx (x = 10, 50)

(algae, plants) etc. et cetera

EU European Union

Ethylene-vinyl alcohol copolymer Fax number

EVAL Fax. gen. GHS

general Globally Harmonized System of Classification and Labelling of Chemicals

GWP Global warming potential 
 GWD
 Global warming potential

 Koc
 Adsorption coefficient of organic carbon in the soil octanol-water partition coefficient

 IARC
 International Agency for Research on Cancer

 IATA
 International Agency for Research on Cancer

 IBC (Code)
 International Bulk Chemical (Code)

 Inderstandiand Maritime Code for Dangerous Goods
 Inductional content

incl

including, inclusive International Uniform Chemical Information Database IUCLID

IUPAC LC50 LD50

International Unioni of Puer Applied Chemistry International Union for Puer Applied Chemistry Lethal Concentration to 50% of a test population Lethal Dose to 50% of a test population (Median Lethal Dose) Logarithm of adsorption coefficient of organic carbon in the soil Log Koc

Log Kow, Log Pow Logarithm of octanol-water partition coefficient LQ Log Kow, Log Pow Logarithm of octanol-water partition coefficient LQ Limited Quantities MARPOL International Convention for the Prevention of Marine Pollution from Ships n.a. not applicable

n.av. not available

# GB Page 11 of 11 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date/ version: 01.02.2022 / 0008 Replacing version dated / version: 01.11.2021 / 0007 Valid from: 01.02.2022 PDF print date: 01.02.2022 Seal-it® 710 Montagefix-PU

n.c. n.d.a. NIOSH NLP	not checked no data available National Institute for Occupational Safety and Health (USA) No-longer-Polymer	
NOEC, NOEL No Observed Effect Concentration/Level		
OECD	Organisation for Economic Co-operation and Development	
org.	organic	
OSHA	Occupational Safety and Health Administration (USA)	
PBT	persistent, bioaccumulative and toxic	
PE	Polyethylene	
PNEC	Predicted No Effect Concentration	
ppm	parts per million	
PVC	Polyvinylchloride	
REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)		
REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely		
technical identifiers for processing a submission via REACH-IT.		
RID	Règlement concernant le transport International ferroviaire de marchandises Dangereuses (=	
Regulation concerning the International Carriage of Dangerous Goods by Rail)		
SVHC	Substances of Very High Concern	
Tel.	Telephone	
TOC	Total organic carbon	
	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. These statements were made by: Chemical Check Platz 1-7, D-32839 Steinheim, Tel.: +49

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