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Page 1 of 8 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II	As from 24 August 2023 adequate training is required before	industrial or professional use.
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 19.10.2022 / 0014	Dibutyltin dilaurate 4,4'-methylenediphenyl diisocyanate	
Replacing version dated / version: 01.11.2021 / 0013	Reaction mass of 4,4'-methylenediphenyl diisocyanate and c	-(p-isocyanatobenzyl)phenyl
Valid from: 19.10.2022	isocyanate	
PDF print date: 19.10.2022 COSMO® PU-180.120	Methylenediphenyl diisocyanate, modified	
COSMO® PU-180.121	2.3 Other hazards	
(COSMOPUR 818)	The mixture does not contain any vPvB substance (vPvB = v included under XIII of the regulation (EC) 1907/2006 (< 0,1 %	
<u>(</u>	The mixture does not contain any PBT substance (PBT = pe	
Safety data sheet	under XIII of the regulation (EC) 1907/2006 (< 0,1 %). The mixture does not contain any substance with endocrine	disrupting properties (< 0.1.%)
according to Regulation (EC) No 1907/2006, Annex II	The mixture does not contain any substance with endocrine	
SECTION 1: Identification of the substance/mixture and of the		
	SECTION 3: Composition/info	ormation on ingredients
company/undertaking	•	
	3.1 Substances	
1.1 Product identifier	n.a.	
COSMO® PU-180.120	3.2 Mixtures	
COSMO® PU-180.121	Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate	
CO3WO® F0-100.121	Registration number (REACH)	01-2119457015-45-XXXX
(COSMOPUR 818)	EINECS, ELINCS, NLP, REACH-IT List-No. CAS	905-806-4
	content %	5-<25
1.2 Relevant identified uses of the substance or mixture and uses advised	Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Acute Tox. 4, H332 Skin Irrit. 2, H315
against		Eye Irrit. 2, H319
Relevant identified uses of the substance or mixture: Adhesive		Skin Sens. 1, H317 Resp. Sens. 1, H334
Uses advised against:		Carc. 2, H351
No information available at present.		STOT SE 3, H335 STOT RE 2, H373 (respiratory system) (as
1.3 Details of the supplier of the safety data sheet		inhalation)
Weiss Chemie + Technik GmbH & Co. KG	Specific Concentration Limits and ATE	Skin Irrit. 2, H315: >=5 % Eve Irrit. 2, H319: >=5 %
Hansastrasse 2 35708 Haiger		Resp. Sens. 1, H334: >=0,1 %
35/08 Halger Tel: +49 (0) 2773 / 815-0		STOT SE 3, H335: >=5 %
msds@weiss-chemie.de	Methylenediphenyl diisocyanate, modified	
www.weiss-chemie.de	Registration number (REACH)	01-2119457013-49-XXXX
	Index EINECS, ELINCS, NLP, REACH-IT List-No.	 500-040-3
Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO	CAS	25686-28-6
NOT use for requesting Safety Data Sheets.	content % Classification according to Regulation (EC) 1272/2008	5-<25 Acute Tox. 4, H332
1.4 Emergency telephone number	(CLP), M-factors	Skin Irrit. 2, H315
Emergency information services / official advisory body:		Eye Irrit. 2, H319
		Skin Sens. 1, H317 Resp. Sens. 1, H334
Telephone number of the company in case of emergencies:		Carc. 2, H351
+49 (0) 700 / 24 112 112 (WIC)		STOT SE 3, H335 STOT RE 2, H373 (respiratory system) (as
+1 872 5888271 (WIC)		inhalation)
SECTION 2: Hazards identification	Specific Concentration Limits and ATE	Skin Irrit. 2, H315: >=5 % Eye Irrit. 2, H319: >=5 %
		Resp. Sens. 1, H334: >=0,1 %
		STOT SE 3, H335: >=5 %
2.1 Classification of the substance or mixture	4,4'-methylenediphenyl diisocyanate	
Classification according to Regulation (EC) 1272/2008 (CLP) Hazard class Hazard category Hazard statement	Registration number (REACH) Index	01-2119457014-47-XXXX 615-005-00-9
Eye Irrit. 2 H319-Causes serious eye irritation.	EINECS, ELINCS, NLP, REACH-IT List-No.	202-966-0
STOT SE 3 H335-May cause respiratory irritation.	CAS	101-68-8
Skin Irrit. 2 H315-Causes skin irritation.	content % Classification according to Regulation (EC) 1272/2008	5-<20 Acute Tox. 4, H332
Resp. Sens. 1 H334-May cause allergy or asthma	(CLP), M-factors	Skin Irrit. 2, H315
symptoms or breathing difficulties if inhaled.		Eye Irrit. 2, H319 Resp. Sens. 1, H334
Skin Sens. 1 H317-May cause an allergic skin reaction.		Skin Sens. 1, H317
Carc. 2 H351-Suspected of causing cancer. STOT RE 2 H373-May cause damage to organs through		Carc. 2, H351 STOT SE 3, H335
prolonged or repeated exposure by		STOT RE 2, H373 (respiratory system) (as
inhalation (respiratory system).	Specific Concentration Limits and ATE	inhalation) Skin Irrit. 2, H315: >=5 %
		Eye Irrit. 2, H319: >=5 %
2.2 Label elements		Resp. Sens. 1, H334: >=0,1 % STOT SE 3, H335: >=5 %
Labeling according to Regulation (EC) 1272/2008 (CLP)		
	Titanium dioxide (in powder form containing 1 % or more of particles with aerodynamic diameter <= 10 μm)	
$\wedge$	Registration number (REACH)	01-2119489379-17-XXXX
	Index	022-006-002
	EINECS, ELINCS, NLP, REACH-IT List-No. CAS	236-675-5 13463-67-7
	content %	<1
	Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Carc. 2, H351 (as inhalation)
		I
Danger	Dibutyltin dilaurate	01-2119496068-27-XXXX
	Registration number (REACH)	050-030-00-3
H319-Causes serious eye irritation. H335-May cause respiratory irritation. H315-Causes skin	EINECS, ELINCS, NLP, REACH-IT List-No.	201-039-8
irritation. H334-May cause allergy or asthma symptoms or breathing difficulties if inhaled. H317-	CAS content %	77-58-7 0,1-<0,25
May cause an allergic skin reaction. H351-Suspected of causing cancer. H373-May cause damage to organs through prolonged or repeated exposure by inhalation (respiratory system).	Classification according to Regulation (EC) 1272/2008	Skin Corr. 1C, H314
	(CLP), M-factors	Eye Dam. 1, H318 Skin Sens. 1, H317
P201-Obtain special instructions before use. P260-Do not breathe vapours or spray. P280-Wear protective gloves / protective clothing / eye protection / face protection. P284-Wear respiratory		Muta. 2, H341
protection.		Repr. 1B, H360FD STOT SE 1, H370 (thymus)
P302+P352-IF ON SKIN: Wash with plenty of water / soap. P304+P340-IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338-IF IN EYES: Rinse		STOT RE 1, H372 (immune system)
cautiously with water for several minutes. Remove contact lenses, if present and easy to do.		Aquatic Acute 1, H400 (M=1)
Continue rinsing. P308+P313-IF exposed or concerned: Get medical advice / attention.		Aquatic Chronic 1, H410 (M=1)

EUH204-Contains isocyanates. May produce an allergic reaction.

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16. The substances named in this section are given with their actual, appropriate classification! For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

SECTION 4: First aid measures



38) Page 2 of 8	7.1 Precautions f		g				
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 19.10.2022 / 0014	7.1.1 General rec Ensure good ventilation						
Replacing version dated / version: 01.11.2021 / 0013	Avoid inhalation of the	vapours.					
Valid from: 19.10.2022 PDF print date: 19.10.2022	If applicable, suction m Avoid contact with eyes		ation or on the process	ing machine	necessar	y.	
COSMO® PU-180.120	No contact with produc	ts of this type in case	of allergies, asthma ur	d chronic res	spiratory t	ract disorde	rs.
COSMO® PU-180.121 (COSMOPUR 818)	Eating, drinking, smoki Observe directions on I Use working methods a	abel and instructions	for use.	vork-room.			
4.1 Description of first aid measures	7.1.2 Notes on ge General hygiene measure	eneral hygiene r	neasures at the v of chemicals are applic		e		
First-aiders should ensure they are protected! Never pour anything into the mouth of an unconscious person!	Wash hands before bre Keep away from food, o						
Inhalation	Remove contaminated			tering areas i	in which f	ood is consi	umed.
Remove person from danger area.	7.2 Conditions for			compatibi	ilities		
Supply person with fresh air and consult doctor according to symptoms. If the person is unconscious, place in a stable side position and consult a doctor.	Keep out of access to u Not to be stored in gan	unauthorised individua	als.				
Respiratory arrest - Artificial respiration apparatus necessary.	Store product closed a	nd only in original pac					
Skin contact	Keep protected from di Only store at temperatu						
Wipe off residual product carefully with a soft, dry cloth. Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of	Store in a dry place.	1011113 0 10 23	0.				
irritation of the skin (flare), consult a doctor.	7.3 Specific end	use(s)					
Dab away with polyethylene glycol 400 Eye contact	Adhesive						
Remove contact lenses.	SECTI	ON 8: Expos	ure controls/p	ersonal	l prote	ection	
Wash thoroughly for several minutes using copious water - call doctor immediately, have Data Sheet available.							
Ingestion Rinse the mouth thoroughly with water.	8.1 Control parar	neters					
Do not induce vomiting - give copious water to drink. Consult doctor immediately.		Desetion		in the second of the second			
4.2 Most important symptoms and effects, both acute and delayed If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1.	GB Chemical Name	isocyanatol	ass of 4,4'-methylened penzyl)phenyl isocyana	te	-	ina o-(p-	
The following may occur:	WEL-TWA: 0,02 mg/	m3 (Isocyanates,	WEL-STEL: 0,07 m	ng/m3 (Isocya	anates,		
Dermatitis (skin inflammation) Drying of the skin.	all (as -NCO)) Monitoring procedures:		all (as -NCO))			I	
Allergic contact eczema	BMGV: 1 µmol isocya (At the end of the perio	anate-derived diamine	mol creatinine in urine		nformation	n: Sen (as -NCO))	
Discoloration of the skin Irritant to mucosa of the nose and throat			la la sua di stat		anates, all	(do *INCU))	
Coughing	GB Chemical Name WEL-TWA: 0,02 mg/		liphenyl diisocyanate, r WEL-STEL: 0,07 m		anates		
Headaches Effect on the central nervous system	all (as -NCO))		all (as -NCO))	-			
Asthmatic symptoms	Monitoring procedures:		SO 16702 (Workplace socyanate groups in ai	air quality – o r using 2-(1-n	aetermina methoxvol	ation of total henylpipera:	zine and
In case of sensitivity, concentrations below the limit value may already result in asthmatic symptoms. Respiratory distress		- 1	iquid chromatography) MDHS 25/4 (Organic is	- 2007			
In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.		1	ampling either onto 2-	(1-methoxyph	henylpipe	razine coate	nou using ed glass
<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.			ibre filters followed by analysis using high per				
Pulmonary oedema prophylaxis	BMGV: 1 µmol isocya	anate-derived diamine			nformation		2013
Medical supervision necessary due to possibility of delayed reaction.	(At the end of the perio	d of exposure)					
SECTION 5: Firefighting measures	GB Chemical Name	4,4'-methyle	enediphenyl diisocyana		anatos		
	WEL-TWA: 0,02 mg/ all (as -NCO))	4,4'-methyle m3 (Isocyanates,	WEL-STEL: 0,07 m all (as -NCO))	ng/m3 (Isocya			
5.1 Extinguishing media	GB Chemical Name WEL-TWA: 0,02 mg/	4,4'-methyle m3 (Isocyanates,	WEL-STEL: 0,07 m all (as -NCO)) SO 16702 (Workplace	ng/m3 (Isocya air quality – o	determina		
5.1 Extinguishing media Suitable extinguishing media	WEL-TWA: 0,02 mg/ all (as -NCO))	4,4'-methyl m3 (Isocyanates, i i	WEL-STEL: 0,07 m all (as -NCO)) SO 16702 (Workplace socyanate groups in ai iquid chromatography)	ng/m3 (Isocya air quality – o r using 2-(1-n - 2007	determina methoxypl	henylpiperaz	zine and
5.1 Extinguishing media Suitable extinguishing media CO2 Extinction powder	WEL-TWA: 0,02 mg/ all (as -NCO))	4,4'-methyli m3 (Isocyanates,	WEL-STEL: 0,07 m all (as -NCO)) SO 16702 (Workplace socyanate groups in ai iquid chromatography) MDHS 25/4 (Organic is	ng/m3 (Isocya air quality – o r using 2-(1-n - 2007 ocyanates in	determina methoxypl air – Lab	henylpiperaz oratory metł	zine and hod using
5.1 Extinguishing media	WEL-TWA: 0,02 mg/ all (as -NCO))	4,4'-methyl m3 (Isocyanates, i - i s	WEL-STEL: 0,07 m all (as -NCO)) SO 16702 (Workplace socyanate groups in ai iquid chromatography) MDHS 25/4 (Organic is ampling either onto 2- ibre filters followed by i	ng/m3 (Isocya air quality – c r using 2-(1-n - 2007 ocyanates in (1-methoxyph solvent desor	determina methoxypl air – Lab henylpipe rption or ii	henylpiperaz oratory metł razine coate nto impinger	zine and hod using ed glass rs and
5.1 Extinguishing media Suitable extinguishing media CO2 Extinction powder Water jet spray Foam Unsuitable extinguishing media	WEL-TWA: 0,02 mg/ all (as -NCO))	a 4,4'-methyli m3 (Isocyanates, i - I	WEL-STEL: 0,07 m all (as -NCO) SO 16702 (Workplace socyanate groups in ai iquid chromatography) MDHS 25/4 (Organic is sampling either onto 2- ibre filters followed by analysis using high per U project BC/CEN/EN	ng/m3 (Isocya air quality – c r using 2-(1-n - 2007 ocyanates in (1-methoxyph solvent desor formance liqu ITR/000/2002	determina methoxypl a air – Lab henylpipe rption or iu uid chrom 2-16 card	henylpiperaz oratory metł razine coate nto impinger atography) - 7-4 (2004)	zine and hod using ed glass rs and
5.1 Extinguishing media Suitable extinguishing media CO2 Extinction powder Water jet spray Foam <b>Unsuitable extinguishing media</b> High volume water jet	WEL-TWA: 0,02 mg/ all (as -NCO))	4.4'-methyl m3 (Isocyanates, i - i - i - i - i - i - i	WEL-STEL: 0,07 m all (as -NCO)) SO 16702 (Workplace socyanate groups in ai iguid chromatography) MDHS 25/4 (Organic is sampling either onto 2- ibre filters followed by analysis using high per EU project BC/CEN/EN UIOSH 5521 (ISOCYAI UIOSH 5521 (ISOCYAI	ag/m3 (Isocya air quality – c r using 2-(1-n - 2007 ocyanates in (1-methoxyph solvent desor formance liqu ITR/000/2002 NATES, MON	determina methoxypl a air – Lab henylpipe rption or in uid chrom 2-16 card NOMERIC	henylpiperaz oratory metł razine coate nto impinger atography) - 7-4 (2004)	zine and hod using ed glass rs and
5.1 Extinguishing media Suitable extinguishing media CO2 Extinction powder Water jet spray Foam Unsuitable extinguishing media High volume water jet 5.2 Special hazards arising from the substance or mixture In case of fire the following can develop:	WEL-TWA: 0,02 mg/ all (as -NCO))	4.4'-methyl m3 (Isocyanates, i - - - - - - - -	WEL-STEL: 0.07 m all (as-NCO)) SO 16702 (Workplace socyanate groups in ai quid chromatography) MDH S25/4 (Organic is ampling either onto 2- ibre filters followed by analysis using high per U project BC/CEN/EN NIOSH 5522 (ISOCYAI NIOSH 5522 (ISOCYAI NIOSH 5522 (ISOCYAI NIOSH 5522 (ISOCYAI	ag/m3 (Isocya air quality – c r using 2-(1-n - 2007 ocyanates in (1-methoxyph solvent desor formance liqu ITR/000/2002 VATES, MOT VATES, TOT.	determina methoxypl henylpipe rption or in uid chrom 2-16 card NOMERIC 98 FAL (MAP)	henylpiperaz oratory metł razine coate nto impinger atography) - 7-4 (2004) 2) - 1994 )) - 2003	zine and hod using ed glass rs and
5.1 Extinguishing media Suitable extinguishing media CO2 Extinction powder Water jet spray Foam Unsuitable extinguishing media High volume water jet 5.2 Special hazards arising from the substance or mixture In case of fire the following can develop: Oxides of carbon	WEL-TWA: 0,02 mg/ all (as -NCO))	4.4'-methyl m3 (Isocyanates, i i - i 5 4 - i - i - i - i - i - i - i - i - i - i	WEL-STEL: 0,07 m all (as -NCO)) SO 16702 (Workplace socyanate groups in ai iquid chromatography) MDHS 25/4 (Organic is sampling either onto 2- bine filters followed by analysis using high per U project BC/CEN/EN UIOSH 5521 (SOCYAI VIOSH 5522 (ISOCYAI VIOSH 5525 (ISOCYAI SIAH 18 (Dilsocyanata	ig/m3 (Isocya air quality – c r using 2-(1-n - 2007 ocyanates in (1-methoxypt solvent desor formance liqu ITR/000/2002 VATES, MON VATES, TOT, ss 2,4-TDI an	determina methoxypl henylpipe rption or in uid chrom 2-16 card NOMERIC 98 TAL (MAP) nd MDI) - 1	henylpiperaz oratory metł razine coate nto impinger atography) - 7-4 (2004) 2) - 1994 2) - 2003 1980	zine and hod using ed glass rs and - 2015 -
5.1 Extinguishing media Suitable extinguishing media CO2 Extinction powder Water jet spray Foam Unsuitable extinguishing media High volume water jet 5.2 Special hazards arising from the substance or mixture In case of fire the following can develop: Oxides of carbon Oxides of nitrogen Isocyanates	Chemical Name     WEL-TWA: 0,02 mg/     ali (as -NCO))     Monitoring procedures:     BMGV: 1 µmol isocys	4.4'-methyl m3 (Isocyanates, i - - - - - - - - - - - - - - - - - -	WEL-STEL: 0.07 m all (as-NCO)) SO 16702 (Workplace socyanate groups in ai sampling either onto 2- ibre filters followed by analysis using high per U project BC/CEN/EN UIOSH 5521 (ISOCYAI UIOSH 5525 (ISOCYAI UIOSH 5525 (ISOCYAI DSHA 47 (Methylene B	ag/m3 (Isocya air quality – c r using 2-(1-n - 2007 ocyanates in (1-methoxypf solvent desor formance liqu ITR/000/2002 VATES, MON VATES, 199 VATES, TOT. as 2,4-TDI an cisphenyl Isoc a   Other in	determina methoxypl i air – Lab henylpipe rption or i uid chrom 2-16 card NOMERIC 98 "AL (MAP) d MDI) - ( cyanate (M nformation	henylpipera: oratory mett razine coate atography) - 7-4 (2004) C) - 1994 C) - 1994 C) - 2003 1980 MDI)) - 1984 n: Sen	zine and hod using ed glass rs and - 2015 -
5.1 Extinguishing media Suitable extinguishing media CO2 Extinction powder Water jet spray Foam Unsuitable extinguishing media High volume water jet 5.2 Special hazards arising from the substance or mixture In case of fire the following can develop: Oxides of carbon Oxides of nitrogen Isocyanates Hydrocyanic acid (hydrogen cyanide)	GB Chemical Name     WEL-TWA: 0,02 mg/     all (as -NCO))     Monitoring procedures:     BMGV: 1 µmol isocya     (At the end of the perio	4.4'-methyl m3 (Isocyanates, i - - - - - - - - - - - - - - - - - -	WEL-STEL: 0.07 m all (as-NCO)) SO 16702 (Workplace socyanate groups in ai quid chromatography) MDHS 25/4 (Organic is sampling either onto: 42 bre filters followed by analysis using high per U project BC/CEN/EN NIOSH 5522 (ISOCYAI VIOSH 5522 (ISOCYAI VIOSH 5522 (ISOCYAI VIOSH 5522 (ISOCYAI VIOSH 5522 (ISOCYAI VIOSH 5522 (ISOCYAI VIOSH 5522 (ISOCYAI DSHA 47 (Methylene E) //mol creatinine in urine	ag/m3 (Isocya air quality – c r using 2-(1-n - 2007 ocyanates in (1-methoxypf solvent desor formance liqu ITR/000/2002 VATES, HOT VATES, 107. Ss 2,4-TDI an (Isocya	determina methoxypl a air – Lab henylpipe rption or in uid chrom 2-16 card NOMERIC 98 "AL (MAP")  cyanate (M nformation anates, all	henylpipera: oratory meth razine coate nto impinger atography) - 7-4 (2004) ) - 1994 )) - 2003 1980 MDI)) - 1984 n: Sen (as -NCO))	zine and hod using ed glass rs and - 2015 -
5.1 Extinguishing media Suitable extinguishing media CO2 Extinction powder Water jet spray Foam Unsuitable extinguishing media High volume water jet 5.2 Special hazards arising from the substance or mixture In case of fire the following can develop: Oxides of carbon Oxides of raitrogen Socyanates Hydrocyanic acid (hydrogen cyanide) Toxic gases Danger of bursting (explosion) when heated	Chemical Name     WEL-TWA: 0,02 mg/     ali (as -NCO))     Monitoring procedures:     BMGV: 1 µmol isocys	4.4'-methyl m3 (Isocyanates, i i i i i i i i i i i i i i i i i i i	WEL-STEL: 0.07 m all (as -NCO)) SO 16702 (Workplace socyanate groups in ai ampling either onto 2- bibre filters followed by: analysis using high per U project BC/CEWEN VIOSH 5522 (ISOCYAI VIOSH 5522 (ISOCYAI VIOSH 5522 (ISOCYAI VIOSH 5525 (ISOCYAI VIOSH 5526 (ISOCYAI DSHA 18 (Discocyanat DSHA 17 (Methylene B /mol creatinine in urine axide (in powder form of	ag/m3 (Isocya air quality – c r using 2-(1-n - 2007 ocyanates in (1-methoxypt solvent desor formance liqu TR/000/2002 VATES, MON VATES, MON VATES, MON VATES, TOT isopenyl Isoc a Other ir (Isocya containing 1 9	determina methoxypl a air – Lab henylpipe rption or in uid chrom 2-16 card NOMERIC 98 "AL (MAP)" d MDI) – 2 AL (MAP)" d MDI) – 4 MAL (MAP)" Mormation inates, all % or more	henylpipera: oratory meth razine coate nto impinger atography) - 7-4 (2004) ) - 1994 )) - 2003 1980 MDI)) - 1984 n: Sen (as -NCO))	zine and hod using ed glass rs and - 2015 -
5.1 Extinguishing media Suitable extinguishing media CO2 Extinction powder Water jet spray Foam Unsuitable extinguishing media High volume water jet 5.2 Special hazards arising from the substance or mixture In case of fire the following can develop: Oxides of carbon Oxides of nitrogen Isocyanates Hydrocyanic acid (hydrogen cyanide) Toxic gases Danger of bursting (explosion) when heated 5.3 Advice for firefighters	BMGV: 1 µmol isocys (At the end of the perior     Ge Chemical Name     WEL-TWA: 0,02 mg/ ali (as -NCO))     Monitoring procedures:     BMGV: 1 µmol isocys (At the end of the perior     Ge Chemical Name     WEL-TWA: 10 mg/m	4.4'-methyl m3 (Isocyanates, i - - - - - - - - - - - - - - - - - -	WEL-STEL: 0.07 m all (as-NCO)) SO 16702 (Workplace socyanate groups in ai quid chromatography) MDHS 25/4 (Organic is sampling either onto: 42 bre filters followed by analysis using high per U project BC/CEN/EN NIOSH 5522 (ISOCYAI VIOSH 5522 (ISOCYAI VIOSH 5522 (ISOCYAI VIOSH 5522 (ISOCYAI VIOSH 5522 (ISOCYAI VIOSH 5522 (ISOCYAI VIOSH 5522 (ISOCYAI DSHA 47 (Methylene E) //mol creatinine in urine	ag/m3 (Isocya air quality – c r using 2-(1-n - 2007 ocyanates in (1-methoxypt solvent desor formance liqu TR/000/2002 VATES, MON VATES, MON VATES, MON VATES, TOT isopenyl Isoc a Other ir (Isocya containing 1 9	determina methoxypl a air – Lab henylpipe rption or in uid chrom 2-16 card NOMERIC 98 "AL (MAP)" d MDI) – 2 AL (MAP)" d MDI) – 4 MAL (MAP)" Mormation inates, all % or more	henylpipera: oratory meth razine coate nto impinger atography) - 7-4 (2004) ) - 1994 )) - 2003 1980 MDI)) - 1984 n: Sen (as -NCO))	zine and hod using ed glass rs and - 2015 -
5.1 Extinguishing media Suitable extinguishing media CO2 Extinction powder Water jet spray Foam Unsuitable extinguishing media High volume water jet 5.2 Special hazards arising from the substance or mixture In case of fire the following can develop: Oxides of carbon Oxides of rathon Oxides of rathon Oxides of rathon Oxides of nitrogen Isocyanates Hydrocyanic acid (hydrogen cyanide) Toxic gases Danger of bursting (explosion) when heated 5.3 Advice for firefighters For personal protective equipment see Section 8. In case of fire and/or explosion do not breathe fumes.	Chemical Name     WEL-TWA: 0,02 mg/     all (as -NCO))     Monitoring procedures:     BMGV: 1 µmol isocya     (At the end of the perio     (e)     Chemical Name     WEL-TWA: 10 mg/m     dust), 4 mg/m3 (respire     Monitoring procedures:	4.4'-methyli m3 (lsocyanates, 	WEL-STEL: 0.07 m all (as-NCO)) SO 16702 (Workplace socyanate groups in ai igampling either onto 2- ibre filters followed by analysis using high per U project BC/CEN/EN UIOSH 5521 (SOCYAI UIOSH 5522 (ISOCYAI UIOSH 5522 (ISOCYAI USH 41 (Diisocyanate JSHA 47 (Methylene B /mol creatinine in urine bake (in powder form of h aerodynamic diamet	$\begin{array}{l} \text{gg/m3} (Isocya\\ \text{air quality} = c\\ \text{r using } 2 < (1-n\\ -2007\\ \text{ocyanates in}\\ (1-methox)p\\ \text{solvent descond}\\ $	determina methoxypl a air – Lab henylpipe rption or i uid chrom 2-16 card NOMERIC 98 "AL (MAP)  cyanate (h nformation nnates, all % or more	henylpiperaz oratory meti razine coate nto impinger atography) - 7-4 (2004) c) - 1994 )) - 2003 1980 MDI)) - 1984 n: Sen (as -NCO)) o f	zine and hod using ed glass rs and - 2015 -
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5.1 Extinguishing media         Suitable extinguishing media         CO2         Extinction powder         Water jet spray         Foam         Unsuitable extinguishing media         High volume water jet         5.2 Special hazards arising from the substance or mixture         In case of fire the following can develop:         Oxides of carbon         Oxides of nitrogen         Isocyanitas         Bydrocyanic acid (hydrogen cyanide)         Toxic gases         Danger of bursting (explosion) when heated         5.3 Advice for firefighters         For personal protective equipment see Section 8.         In case of fire and/or explosion do not breathe fumes.         Protective respirator with independent air supply.         According to size of fire         Full protection, if necessary.         Cool container at risk with water.         Dispose of contaminated extinction water according to official regulations.         SECTION 6: Accidental release measures         6.1 Personal precautions, protective equipment and emergency procedures	GE         Chemical Name           WEL-TWA:         0,02 mg/ all (as -NCO))           Monitoring procedures:           Monitoring procedures:           GE         Chemical Name           WEL-TWA:         10 mg/m dust), 4 mg/m3 (respiration Monitoring procedures:           BMGV:            GE         Chemical Name           WEL-TWA:         10 mg/m dust), 4 mg/m3 (respiration)           Monitoring procedures:         BMGV:           MONItoring procedures:         BMGV:           BMGV:	4.4'-methyli m3 (Isocyanates, i - i - i - i - i - i - i - i - i - i -	WEL-STEL: 0.07 m all (as -NCO)) SO 16702 (Workplace socyanate groups in ai ampling either onto 2- bibre filters followed by unalysis using high per U project BC/CEN/EN UIOSH 5522 (ISOCYA) UIOSH 5522 (ISOCYA) UIOSH 5525 (ISOCYA	g/m3 (Isocya air quality - c r using 2-(1-n - 2007 ocyanates in (1-methoxypt solvent descore formance liqu TR7000/2002 VATES, MON VATES, 10- 00ther in (Isocya containing 1 % er <= 10 µm)	determina methoxypl air – Lab henylpipe protion or in uid chrom. 2-16 card yold AP ad MDI) - ' cyanate (In formation nates, all % or more ) nformation	henylpiperaz oratory meti razine coate nto impingen atography) - 7-4 (2004) 2) - 1994 (2) - 1994 (2	zine and hod using ad glass rs and - 2015 -
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GB Page 3 of 8

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 19.10.2022 / 0014 Replacing version date / version: 01.11.2022 / 0014 Replacing version dated / version: 01.11.2021 / 0013 Valid from: 19.10.2022 DDF print date: 19.10.2022 COSMO® PU-180.120 COSMO® PU-180.121

(COSMOPUR 818)

Consumer	Human - inhalation	Short term,	DNEL	0,05	mg/m3	
		local effects				
Workers /	Human - inhalation	Short term,	DNEL	0,1	mg/m3	
employees		local effects				
Workers /	Human - inhalation	Long term,	DNEL	0,05	mg/m3	
employees		local effects				

4,4'-methylenedipher Area of application	Exposure route /	Effect on	Descri	Valu	Unit	Note
Area of application	Environmental	health	ptor	e	onne	11010
	compartment	neurin	pion	Č		
	Environment -		PNEC	3,7	µg/l	
	freshwater		THEO	0,7	P9/1	
	Environment -		PNEC	0,37	µg/l	
	marine			0,01	P9/.	
	Environment -		PNEC	1	mg/l	
	sewage treatment		-		5	
	plant					
	Environment - soil		PNEC	2.33	mg/kg	
				_,	dw	
	Environment -		PNEC	37	µg/l	
	sporadic		-		15	
	(intermittent) release					
	Environment -		PNEC	11,7	mg/kg	
	sediment, freshwater		-	· ·	dry	
					weight	
	Environment -		PNEC	1.17	mg/kg	
	sediment, marine		-	'	dry	
					weight	
Consumer	Human - oral	Short term.	DNEL	20	mg/kg	
		systemic effects			bw/day	
Consumer	Human - dermal	Short term,	DNEL	17,2	mg/cm	
		local effects			2	
Consumer	Human - dermal	Short term,	DNEL	25	mg/kg	
		systemic effects			bw/day	
Consumer	Human - inhalation	Short term,	DNEL	0,05	mg/m3	
		local effects			-	
Consumer	Human - inhalation	Short term,	DNEL	0,05	mg/m3	
		systemic effects			-	
Consumer	Human - inhalation	Long term,	DNEL	0,02	mg/m3	
		local effects		5		
Consumer	Human - inhalation	Long term,	DNEL	0,02	mg/m3	
		systemic effects		5		
Workers /	Human - dermal	Short term,	DNEL	28,7	mg/cm	
employees		local effects			2	
Workers /	Human - dermal	Short term,	DNEL	50	mg/kg	
employees		systemic effects			bw/day	
Workers /	Human - inhalation	Short term,	DNEL	0,1	mg/m3	
employees		local effects				
Workers /	Human - inhalation	Short term,	DNEL	0,1	mg/m3	
employees		systemic effects				
Workers /	Human - inhalation	Long term,	DNEL	0,05	mg/m3	
employees		local effects				
Workers /	Human - inhalation	Long term,	DNEL	0,05	mg/m3	
employees		systemic effects				

Titanium dioxide (in powder form containing 1 % or more of particles with aerodynamic diameter <= 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 (intermittent) release		PNEC	0,19 3	mg/l	
	Environment - sewage treatment plant		PNEC	100	mg/l	
	Environment - sediment, freshwater		PNEC	100 0	mg/kg dw	
	Environment - sediment, marine		PNEC	100	mg/kg dw	
	Environment - soil		PNEC	100	mg/kg dw	
	Environment - oral (animal feed)		PNEC	166 7	mg/kg feed	
Consumer	Human - oral	Long term, systemic effects	DNEL	700	mg/kg bw/d	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	10	mg/m3	

Dibutyltin dilaurate						
Area of application	Exposure route / Environmental compartment	Effect on health	Descri ptor	Valu e	Unit	Note
	Environment - sediment, freshwater		PNEC	0,05	mg/kg wet weight	
	Environment - freshwater		PNEC	0,00 046 3	mg/l	
	Environment - marine		PNEC	0,00 004 6	mg/l	
	Environment - sediment, marine		PNEC	0,00 5	mg/kg wet weight	
Consumer	Human - dermal	Short term, systemic effects	DNEL	0,5	mg/kg body weight/ day	

Consumer	Human - inhalation	Short term, systemic effects	DNEL	0,02	mg/m3	
Consumer	Human - oral	Short term, systemic effects	DNEL	0,01	mg/kg body weight/ day	
Consumer	Human - dermal	Long term, systemic effects	DNEL	0,08	mg/kg body weight/ day	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	0,00 3	mg/m3	
Consumer	Human - oral	Long term, systemic effects	DNEL	0,00 2	mg/kg body weight/ day	
Workers / employees	Human - dermal	Short term, systemic effects	DNEL	1	mg/kg body weight/ day	
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	0,07	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	0,2	mg/kg body weight/ day	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	0,01	mg/m3	

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

(Directive 2004/3//VEb.) WEL-STEL = WORPAGE Exposure Land, Close L

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

## 8.2 Exposure controls

8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction. If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.

Applies only if maximum permissible exposure values are listed here.

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

These are specified by e.g. EN 14042. EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

# 8.2.2 Individual protection measures, such as personal protective equipment General hygiene measures for the handling of chemicals are applicable. Wash hands before breaks and at end of work. Keep away from food, drink and animal feedingstuffs. Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection: Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection: Chemical resistant protective gloves (EN ISO 374).

Recommended

Protective nitrile gloves (EN ISO 374). Minimum layer thickness in mm: >= 0,35 Permeation time (penetration time) in minutes:

>= 480

The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical

The recommended maximum wearing time is 50% of breakthrough time. Protective hand cream recommended.

Skin protection - Other:

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

Respiratory protection:

Normally not necessary. If OES or MEL is exceeded. Filter A2 P2 (EN 14387), code colour brown, white

Observe wearing time limitations for respiratory protection equipment.

Thermal hazards

#### Not applicable

Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents. Selection of materials derived from glove manufacturer's indications. Final selection of glove material must be made taking the breakthrough times, permeation rates and

degradation into account.

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

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use. The exact breakthrough time of the glove material can be requested from the protective glove manufacturer

and must be observed

8.2.3 Environmental exposure controls No information available at pr

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

9.1 Information on basic physical and chemical properties Physical sta Colour: Pastelike Liquid Odour: Melting point/freezing point: Characteristic

According to specification There is no information available on this parameter



B) Page 4 of 8 Safety data sheet accord Revision date / version: - Replacing version dated Valid from: 19.10.2022 PDF print date: 19.10.20	19.10.2022 / version: 0	/ 0014		06, Annex II			Acute toxicity, by inhalation:	LC50	0,49	mg/l/ 4h	Rat		Mist, Dust:, Does not conform with EU classificati
COSMO® PU-180.120 COSMO® PU-180.121 (COSMOPUR 818)							Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosio	n. Irritant
Boiling point or initial boil Flammability: Lower explosion limit:	ling point ar	nd boiling rang	Co	mbustible.	mation available on th mation available on th	-	Respiratory or skin sensitisation:				Guinea pig	n) OECD 406 (Skin Sensitisation)	Yes (inhalation and skin
Upper explosion limit: Flash point:			Th	ere is no infor	mation available on th mation available on th	is parameter.	Germ cell				Salmonel	Regulation (EC)	contact) Negative
Auto-ignition temperature Decomposition temperature pH: Kinematic viscosity: Solubility: Partition coefficient n-oct	ure:	(log value):	n.a Th Mi Th Ins	a. ere is no infor xture reacts wi	mation available on th ith water. mation available on th	is parameter.	mutagenicity:				la typhimuri um	440/2008 B.13/B.14 (REVERSE MUTATION TEST USING BACTERIA)	Negative
Vapour pressure: Density and/or relative de Relative vapour density: Particle characteristics: 9.2 Other informat	-		~1 Th	,14 g/cm3 (20	mation available on th	-	Germ cell mutagenicity:				Rat	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative
Explosives: Oxidising liquids: Evaporation rate: Bulk density:			Pr No n.a n.a	a.	plosive.		Carcinogenicity:				Rat	OECD 453 (Combined Chronic Toxicity/Carcinog	Carc. 2
	SECTI	ON 10: S	Stabilit	y and rea	activity		Methylenediphenyl diis		nodified			enicity Studies)	
							Toxicity / effect	Endpo int	Value	Unit	Organis	Test method	Notes
10.1 Reactivity reacts with water 10.2 Chemical stal		lling					Acute toxicity, by oral route:	LD50	>2000	mg/k g	m Rat	OECD 401 (Acute Oral Toxicity)	Analogous conclusion
Stable with proper storage <b>10.3 Possibility of</b> Exothermic reaction possible Alcohols	hazardo		ons				Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosio n)	Skin Irrit. 2
Amines Bases Acids Water							Serious eye damage/irritation:				Rabbit	ÓECD 405 (Acute Eye Irritation/Corrosio n)	Eye Irrit. 2
Developement of: Carbon dioxide							Respiratory or skin sensitisation:				Mouse		Yes (inhalation
CO2 formation in closed Pressure increase will re							Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Yes (skin contact)
10.4 Conditions to See also section 7. Protect from humidity. Polymerisation due to hig T > ~ 260°C 10.5 Incompatible	o avoid	ossible.					Germ cell mutagenicity:				Salmonel la typhimuri um	Regulation (EC) 440/2008 B.13/B.14 (REVERSE MUTATION TEST USING	Negative
See also section 7. Acids Bases Amines Alcohols		-					Germ cell mutagenicity:				Rat	BACTERIA) OECD 474 (Mammalian Erythrocyte Micronucleus	Negative
Water <b>10.6 Hazardous de</b> See also section 5.2 No decomposition when	•	•	lucts				Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOEC	0,2	mg/m 3	Rat	Test) OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies)	
S	ECTIO	N 11: To	xicolo	gical info	ormation		4,4'-methylenedipheny	l diisocvana	ate		1		
11.1 Information		4 0100000	aa dafir	od in Rog	ulation (EC) No.	1222/2009	Toxicity / effect	Endpo int	Value	Unit	Organis m	Test method	Notes
11.1. Information of Possibly more information COSMO® PU-180.120 COSMO® PU-180.121						127212008	Acute toxicity, by oral route:	LD50	>2000	mg/k g	Rat	Regulation (EC) 440/2008 B.1 (ACUTE ORAL TOXICITY)	Analogous conclusion
(COSMOPUR 818) Toxicity / effect	Endpo	Value	Unit	Organis	Test method	Notes	Acute toxicity, by dermal route:	LD50	>9400	mg/k g	Rabbit	OECD 402 (Acute Dermal Toxicity)	Analogous conclusion
Acute toxicity, by oral route: Acute toxicity, by dermal route:	int			m		n.d.a. n.d.a.	Acute toxicity, by inhalation:	LC50	0,368	mg/l/ 4h	Rat	OECD 403 (Acute Inhalation Toxicity)	Aerosol, Does not conform with EU
Acute toxicity, by inhalation:	ATE	>20	mg/l/ 4h			calculated value,	Agusto topicita hu	1050	15				classificati n.
Skin corrosion/irritation:						Vapours n.d.a.	Acute toxicity, by inhalation:	LC50	1,5	mg/l/ 4h	Derte		Aerosol, Expert judgement
Serious eye damage/irritation:						n.d.a.	Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosio	Skin Irrit. 2, Analogous
Respiratory or skin sensitisation:						n.d.a.	Respiratory or skin				Guinea	n)	conclusion
Germ cell mutagenicity:						n.d.a.	sensitisation: Respiratory or skin				pig Mouse	OECD 429 (Skin	(inhalation Skin Sens
Carcinogenicity: Reproductive toxicity: Specific target organ						n.d.a. n.d.a. n.d.a.	sensitisation:				WUUSE	Sensitisation - Local Lymph	1
toxicity - single exposure (STOT-SE):							Germ cell				Salmonel	Node Assay) OECD 471	Negative,
Specific target organ toxicity - repeated						n.d.a.	mutagenicity:				la typhimuri um	(Bacterial Reverse Mutation Test)	Analogous conclusion
exposure (STOT-RE): Aspiration hazard:						n.d.a.	Germ cell mutagenicity:				Rat	OECD 474 (Mammalian	Negativerr ale
Symptoms:		inhered		nd a (= )	anataho	n.d.a.	matagemony.					Erythrocyte Micronucleus	410
Reaction mass of 4,4'-r Toxicity / effect	Endpo	Value	Unit	Organis m	anatobenzyl)phenyl Test method	isocyanate Notes	Germ cell mutagenicity:				Rat	Test) OECD 489 (In Vivo Mammalian	Negativem
Acute toxicity, by oral	LD50 LD50	> 10000	mg/k g mg/k	Rat Rabbit							Rat	Alkaline Comet Assay) OECD 453	
route: Acute toxicity, by							Carcinogenicity:	1					Aerosol,



B) Page 5 of 8 Safety data sheet accord			lo 1907/200	06, Annex II			Toxicity / effect	End	bo Va	lue	Unit	Organis m	Test method	Notes
Revision date / version: Replacing version dated Valid from: 19.10.2022 PDF print date: 19.10.20 COSMO® PU-180.120 COSMO® PU-180.121	19.10.2022 / version: 01	/ 0014					Acute toxicity, by or route:			2000	mg/k g	Rat	OECD 423 (Acute Oral Toxicity - Acute Toxic Class Method) OECD 402	
							Acute toxicity, by dermal route:	LD5	,   >:	2000	mg/k g	Rat	(Acute Dermal	
(COSMOPUR 818) Reproductive toxicity:	NOAE L	4-12	mg/m 3	Rat	OECD 414 (Prenatal	Aerosol, Analogous	Skin corrosion/irritation:					Rabbit	Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio	Not irrita
Specific target organ toxicity - single					Developmental Toxicity Study)	conclusion May cause respiratory	Serious eye damage/irritation:					Rabbit	n) OECD 405 (Acute Eye Irritation/Corrosio	Not irrita
exposure (STOT-SE), inhalative:						irritation.	Germ cell						n) OECD 471	Negative
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	LOAE L	1	mg/m 3	Rat	OECD 453 (Combined Chronic Toxicity/Carcinog	Aerosol, Analogous conclusion, Target	mutagenicity: Aspiration hazard:						(Bacterial Reverse Mutation Test)	No
					enicity Studies)	organ(s): respiratory	11.2. Informat	ion on oth	er haz	ards				110
Specific target organ	NOAE	0,2	mg/m	Rat	OECD 453	system Aerosol,	COSMO® PU-180. COSMO® PU-180.							
oxicity - repeated exposure (STOT-RE), nhalat.:	L		3		(Combined Chronic Toxicity/Carcinog	Analogous conclusion, Target	(COSMOPUR 818)							
in naidt.					enicity Studies)	organ(s): respiratory	Toxicity / effect	End	po Va	lue	Unit	Organis m	Test method	Notes
•						system	Endocrine disruptin properties:	g						Does no apply to mixtures
Titanium dioxide (in po µm) Toxicity / effect	Endpo	Value	Unit	of particles Organis	Test method	Ameter <= 10	Other information:							No othe relevant
Acute toxicity, by oral	LD50	>5000	mg/k	m Rat	OECD 425	110163								informat availab
route:	2000	10000	g	, at	(Acute Oral Toxicity - Up- and-Down Procedure)									on adve effects o health.
Acute toxicity, by dermal route:	LD50	>5000	mg/k q	Rabbit	T TOCEDUTE)			SEC	TION	12: Eo	cologi	cal infor	mation	
Acute toxicity, by inhalation:	LC50	>6,8	9 mg/l/ 4h	Rat			Possibly more infor	mation on en	vironmen	tal effects	, see Sec	tion 2.1 (class	fication).	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosio	Not irritant	COSMO® PU-180. COSMO® PU-180.	120			,			
Serious eye damage/irritation:				Rabbit	n) OECD 405 (Acute Eye Irritation/Corrosio	Not irritant, Mechanical irritation	(COSMOPUR 818) Toxicity / effect 12.1. Toxicity to	Endpoin t	Tim e	Valu e	Unit	Organism	Test method	Notes
Respiratory or skin sensitisation:				Mouse	n) OECD 429 (Skin Sensitisation - Local Lymph	possible. Not sensitizisin g	fish: 12.1. Toxicity to daphnia: 12.1. Toxicity to							n.d.a. n.d.a.
Respiratory or skin				Guinea	Node Assay) OECD 406 (Skin	No (skin	algae: 12.2.							With wa
sensitisation: Germ cell mutagenicity:				pig Mouse	Sensitisation) OECD 474 (Mammalian Erythrocyte Micronucleus Test)	contact) Negative	Persistence and degradability:							at the interface transfor slowly w formatio
Germ cell mutagenicity:				Mammali an	OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative								of CO2 into a fin insolubl reaction product with a h
Germ cell mutagenicity:				Salmonel la typhimuri um	(Ames-Test)	Negative								melting point (polycar mide).
Germ cell mutagenicity:					OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative								Accordi to experie availabl
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative								to date, polycarl ide is in and nor degrada
Reproductive toxicity (Developmental				Rat	OECD 414 (Prenatal	No indications	12.3.							n.d.a.
toxicity):					Developmental Toxicity Study)	of such an effect.	Bioaccumulative potential:							
Specific target organ toxicity - single exposure (STOT-SE):						Not irritant (respiratory tract).	12.4. Mobility in soil:							n.d.a.
Symptoms:						mucous membrane	12.5. Results of PBT and vPvB assessment							n.d.a.
						irritation, coughing,	12.6. Endocrine disrupting							Does no apply to
						respiratory distress, drying of	properties: 12.7. Other							mixture: No
Specific target organ	NOAE	3500	mg/k	Rat		the skin. 90d	adverse effects:							informat availab
oxicity - repeated exposure (STOT-RE), oral:	L		g/d											on othe adverse effects o the
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAE C	10	mg/m 3	Rat		90d								environr t.
Dibutyltin dilaurate			1	1			Reaction mass of Toxicity / effect	4,4'-methyle Endpoin	Tim	Valu	yanate ar Unit	nd o-(p-isocya Organism		isocyanate Notes
Toxicity / effect	Endpo int	Value	Unit	Organis m	Test method	Notes	12.2. Bereistopen and	t	<b>e</b> 28d	<b>e</b> 0	%	activated	OECD 302	
Skin corrosion/irritation:				Rat		Corrosive	Persistence and degradability:					sludge	C (Inherent Biodegradab ility -	
Respiratory or skin sensitisation: Aspiration hazard:				Guinea pig	OECD 406 (Skin Sensitisation)	Sensitising							Modified MITI Test	
assuration bazard.	1		1			Negative			1	1		1	(II))	



Page 6 of 8 Safety data sheet a Revision date / vers Replacing version C Valid from: 19.10.21 PDF print date: 19. COSMO® PU-180. COSMO® PU-180. (COSMOPUR 818)	sion: 19.10.20 dated / versior 022 10.2022 120 121	22 / 0014	4		5, Annex II			12.2. Persistence and degradability:		28d	0	%		OECD 302 C (Inherent Biodegradab ility - Modified MITI Test (II))	Not biodegrada ble, With water at the interface, transforms slowly with formation of CO2
12.3.	BCF		200				Not to be								into a firm, insoluble
Bioaccumulative potential:							expected								reaction product
12.1. Toxicity to fish:	LC50	96h	> 100 0	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity									with a high melting point
12.1. Toxicity to daphnia:	NOEC/N OEL	21d	>10	mg/l	Daphnia magna	Test) OECD 211 (Daphnia magna Reproductio n Test)									(polycarba mide)., According to experience available
12.1. Toxicity to daphnia:	EC50	24h	> 100 0	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisati on Test)									to date, polycarban ide is inert and non- degradable
Toxicity to bacteria:	EC50	3h	>10 0	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration									., Analogous conclusion
						Inhibition Test (Carbon and		12.1. Toxicity to daphnia:	EC50	24h	>10 00	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisati on Test)	Analogous conclusion
						Ammonium Oxidation))		12.1. Toxicity to	NOEC/N	21d	>10	mg/l	Daphnia	OECD 202	Analogous
Methylenedipheny Toxicity / effect	yl diisocyana Endpoin t	te, modif Tim e	ied Valu e	Unit	Organism	Test method	Notes	daphnia:	OEL				magna	(Daphnia sp. Acute Immobilisati on Test)	conclusion
12.2. Persistence and degradability:		28d	0	%	activated sludge	OECD 302 C (Inherent Biodegradab ility - Modified MITI Test (II))		12.3. Bioaccumulative potential:	Log Pow		5,22				A notable biological accumulati on potential has to be expected
12.3. Bioaccumulative potential:	BCF		200			OECD 305 (Bioconcentr ation - Flow-	Not to be expected	12.1. Toxicity to algae:	ErC50	72h	>16 40	mg/l	Desmodesm	OECD 201 (Alga,	(LogPow > 3). Analogous conclusion
12.1. Toxicity to fish:	LC50	96h	>10 00	mg/l	Brachydanio rerio	Through Fish Test) OECD 203 (Fish, Acute							subspicatus	Growth Inhibition Test)	
12.1. Toxicity to daphnia:	NOEC/N OEL	21d	>=1	mg/l	Daphnia magna	Toxicity Test) OECD 211 (Daphnia		12.3. Bioaccumulative potential:	BCF	28d	200		Cyprinus caprio	IUCLID Chem. Data Sheet (ESIS)	Not to be expected
Toxicity to	EC50	3h	>10	ma/l	activated	magna Reproductio n Test) OECD 209		12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
bacteria:			0	mg/l	sludge	(Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))		Other information:	AOX						Does not contain any organically bound halogens which can contribute to the AOX
4,4'-methylenedip			Valu	Unit	Organiam	Test	Natas								value in waste water.
Other information:	Endpoin t	Tim e	Valu e	Unit	Organism	Test method	Notes According to experience available	Toxicity to bacteria:	EC50	3h	>10 0	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition	Analogous conclusion
							to date, polycarbam ide is inert and non- degradable ., With	Other organisms:	NOEC/N	14d	>10	mg/k	Lactuca	Test (Carbon and Ammonium Oxidation)) OECD 208	Analogous
							water at the interface, transforms		OEL		00	g	sativa	(Terrestrial Plants, Growth Test)	conclusion
							slowly with formation of CO2 into a firm, insoluble	Other organisms:	NOEC/N OEL	14d	>10 00	mg/k g	Avena sativa	OECD 208 (Terrestrial Plants, Growth Test)	Analogous conclusion
							reaction product with a high melting point	Toxicity to annelids:	NOEC/N OEL	14d	> 100 0	mg/k g	Lumbricus terrestris	OECD 207 (Earthworm, Acute Toxicity Tests)	Analogous conclusion
		1					(polycarba mide).	Toxicity to annelids:	EC50	14d	>10 00	mg/k g	Eisenia foetida	OECD 207 (Earthworm, Acute	Analogous conclusion
12.4. Mobility in soil:	H (Henry)		0,02	Pa*m 3/mol										Toxicity	
soil: 12.1. Toxicity to	H (Henry) LC50	96h	29 >10	Pa*m 3/mol mg/l	Brachydanio	OECD 203	Analogous							Tests)	
soil:	(Henry)	96h	29	3/mol	Brachydanio rerio	(Fish, Acute Toxicity	Analogous conclusion	Titanium dioxide (	(in powder fo	rm conta	aining 1 %	% or more	of particles with	Tests)	ameter <= 10
soil: 12.1. Toxicity to	(Henry)	96h	29 >10	3/mol		(Fish, Acute		Titanium dioxide ( μm) Toxicity / effect	(in powder fo Endpoin	orm conta	aining 1 % Valu e	6 or more Unit	of particles with Organism	Tests)	ameter <= 10 Notes



Page 7 of 8 Safety data sheet a Revision date / ver Replacing version of Valid from: 19.10.2 PDF print date: 19. COSMO® PU-180. COSMO® PU-180. (COSMOPUR 818)	sion: 19.10.20 dated / versior 022 10.2022 120 121	22 / 0014	4		5, Annex II	
12.1. Toxicity to daphnia:	LC50	48h	>10 0	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisati on Test)
12.1. Toxicity to algae:	EC50	72h	16	mg/l	Pseudokirch neriella subcapitata	U.S. EPA- 600/9-78- 018
12.2. Persistence and degradability:						
12.3. Bioaccumulative	BCF	42d	9,6			

ആ

potential: 12.3.

Bioaccumulative

potential: 12.4. Mobility in

soil: 12.5. Results of PBT and vPvB

assessment

Toxicity to

bacteria: Toxicity to

bacteria

Toxicity to

BCF

LC0

NOEC/N

14d 19

24h

352

>50

>t 00 10

000

>10

annelids:	OEL		00	g	foetida		
Water solubility:							Insoluble20 °C
Dibutyltin dilaurat	e						
Toxicity / effect	Endpoin	Tim	Valu	Unit	Organism	Test	Notes
	t	e	e			method	
12.1. Toxicity to algae:	EC50	72h	>1	mg/l	Desmodesm us subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		28d	22	%		OECD 301 F (Ready Biodegradab ility - Manometric Respirometr y Test)	Not readily biodegrada ble

mg/l

mg/

ma/k

Escherichia

coli Pseudo

Eisenia

as fluorescens

Silicon dioxide Toxicity / effect Endpoin Tim Valu Unit Organism Test Notes							
roxiony / circor	t	e	e	onic	organishi	method	Holes
12.1. Toxicity to fish:	EC0	96h	>10 000	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	EC0	24h	>10 00	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisati on Test)	
12.1. Toxicity to algae:	ErC50	72h	>=1 000 0	mg/l	Scenedesm us subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:							Inorganic products cannot be eliminated from water through biological purificatior methods.
12.5. Results of PBT and vPvB assessment							No PBT substance No vPvB substance

## **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. Ne waste doues are recommendations baces on the schedule dae 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 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 substances					
SECTION 14: Transport information					
General statements					
14.1. UN number or ID number:	Not applicable				
Transport by road/by rail (ADR/R	ID)				
14.2. UN proper shipping name:	)				
14.3. Transport hazard class(es):	n.a.				
14.4. Packing group:	Not applicable				
Classification code:	Not applicable				
LQ:	Not applicable				
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:	Not applicable				
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:	Not applicable				
14.5. Environmental hazards:	Not applicable				
14.6. Special precautions for user					
Unless specified otherwise, general measures for safe 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:

Not relevant for inorganic substances Not to be

expected

Oncorhync

hus mykiss

Negative

No PBT substance, No vPvB

substance

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 Reaction mass of 4.4<sup>--</sup>methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate Methylenediphenyl diisocyanate, modified

4,4'-methylenediphenyl diisocyanate

Dibutyltin dilaurate Regulation (EU) No 649/2012 'concerning the export and import of hazardous chemicals' must be adhered to, as the product contains a substance that falls within the scope of this Regulation. Comply with national regulations/laws governing maternity protection (national implementation of the Directive 92/85/EEC)!

Comply with trade association/occupational health regulations.

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

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):

8

Classification in accordance with regulation (EC) No. 1272/2008 (CLP)	Evaluation method used
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.
STOT RE 2, H373	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). H314 Causes severe skin burns and eye damage.

H30FD Values Server skin burnis and eye damage. H30FD May damage fertillity. May damage the unborn child. H351 Suspected of causing cancer by inhalation. H375 May cause damage to organs through prolonged or repeated exposure by inhalation. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation

H319 Causes serious eye irritation.

H332 Harmful if inhaled

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation. H341 Suspected of causing genetic defects.

H370 Causes damage to organs. H372 Causes damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life.

Eye Irrit. — Eye irritation STOT SE — Specific target organ toxicity - single exposure - respiratory tract irritation

Skin Irrit. - Skin irritation Resp. Sens. — Respiratory sensitization Skin Sens. — Skin sensitization Carc. — Carcinogenicity

Carc. — Carcinogenicity STOT RE — Specific target organ toxicity - repeated exposure Acute Tox. — Acute toxicity - inhalation Skin Corr. — Skin corrosion



GB         Page 8 of 8         Safety data sheet according to Regulation (EC) No 1907/2006, Annex II         Revision date / version: 19.10.2022 / 0014         Replacing version dated / version: 01.11.2021 / 0013         Valid from: 19.10.2022         PDF print date: 19.10.2022         COSMO® PU-180.120         COSMO® PU-180.121	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         Total organic carbon         UN RTDG         United Nations Recommendations on the Transport of Dangerous Goods           VOC         Volatile organic compounds         volatile organic compounds           VPB         very persistent and very bioaccumulative
	wwt wet weight
(COSMOPUR 818) Eye Dam. — Serious eye damage Muta. — Germ cell mutagenicity Repr. — Reproductive toxicity STOT SE — Specific target organ toxicity - single exposure Aquatic Acute — Hazardous to the aquatic environment - acute Aquatic Chronic — Hazardous to the aquatic environment - chronic	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 GmbH, Chemical Check Platz 1-7, D-32839 Steinheim, Tel.: +49 5332 04 17 00
Key literature references and sources	5233 94 17 0, Fax: +49 5233 94 17 90 © by Chemical Check GmbH Gefahrstoffberatung. The copying or changing of this document
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	is forbidden except with consent of the Chemical Check GmbH Gefahrstoffberatung.
(ECHA). Safety data sheets for the constituent substances.	
ECHA Homepage - Information about chemicals. GESTIS Substance Database (Germany).	
German Environment Agency "Rigoletto" information site on substances that are hazardous to water (Germany).	
EU Occupation Exposure Limits Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164, (EU) 2019/1831, each as amended.	
National Lists of Occupational Exposure Limits for each country as amended. Regulations on the transport of hazardous goods by road, rail, sea and air (ADR, RID, IMDG, IATA) as	
amended.	_
Any abbreviations and acronyms used in this document:	_
acc., acc. to according, according to ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (=	
European Agreement concerning the International Carriage of Dangerous Goods by Road)	
AOX Adsorbable organic halogen compounds approx. approximately	
Art., Art. no.Article number ASTM ASTM International (American Society for Testing and Materials)	
ATE Acute Toxicity Estimate BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and	
Testing, Germany) BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health	
and Safety, Germany) BCF Bioconcentration factor	
BSEF The International Bromine Council bw body weight	
CAS Chemical Abstracts Service CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification,	
labelling and packaging of substances and mixtures)	
CMR carcinogenic, mutagenic, reproductive toxic DMEL Derived Minimum Effect Level	
DNEL Derived No Effect Level DOC Dissolved organic carbon	
dw dry weight e.g. for example (abbreviation of Latin 'exempli gratia'), for instance	
EbCx, EyCx, EbLx (x = 10, 50) Effect Concentration/Level of x % on reduction of the biomass (algae, plants)	
EC European Community ECHA European Chemicals Agency	
ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect EEC European Economic Community	
EINECS European Inventory of Existing Commercial Chemical Substances ELINCS European List of Notified Chemical Substances	
EN European Norms EPA United States Environmental Protection Agency (United States of America)	
ErCx, EµCX, ErLx (x = 10, 50) Effect Concentration/Level of x % on inhibition of the growth rate (algae, plants)	
etc. et cetera	
EU European Union EVAL Ethylene-vinyl alcohol copolymer	
Fax. Fax number gen. general	
GHS Globally Harmonized System of Classification and Labelling of Chemicals GWP Global warming potential	
Koc Adsorption coefficient of organic carbon in the soil Kow octanol-water partition coefficient	
IARC International Agency for Research on Cancer IATA International Air Transport Association	
IBC (Code) International Bulk Chemical (Code) IMDG-code International Maritime Code for Dangerous Goods	
incl. including, inclusive IUCLID International Uniform Chemical Information Database	
IUPAC International Union for Pure Applied Chemistry LC50 Lethal Concentration to 50 % of a test population	
LD50 Lethal Dose to 50% of a test population (Median Lethal Dose) Log Koc Logarithm of adsorption coefficient of organic carbon in the soil	
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	
n.c. not checked n.d.a. no data available	
NIOSH National Institute for Occupational Safety and Health (USA) NLP No-longer-Polymer	
NOEC, NOEL No Observed Effect Concentration/Level OECD Organisation for Economic Co-operation and Development	
org. organic OSHA Occupational Safety and Health Administration (USA)	
PBT persistent, bioaccumulative and toxic PE Polyethylene	
PNEC Predicted No Effect Concentration ppm parts per million	
PVC Polyvinylchloride	
REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)	
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