

CB) Page 1 of 8 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0009 Replacing version tatel / version: 02.08.2021 / 0008 Valid from: 01.11.2021 PDF print date: 01.11.2021 COSMO® PU-160.540 COSMO® PU-160.690 COSMO® PU-160.710 COSMO® PU-160.720

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

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

1.1 Product identifier

COSMO® PU-160.540 COSMO® PU-160.690 COSMO® PU-160.710 COSMO® PU-160.720

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

1.3 Details of the supplier of the safety data sheet Weiss Chemie + Technik GmbH & Co. KG Hansastrasse 2 35708 Haiger Tel: +49 (0) 2773 / 815-0 msds@weiss-chemie.de www.weiss-chemie.de

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

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

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

# **SECTION 2: Hazards identification** 2.1 Classification of the substance or mixture

Classification a	according to Regulat	ion (EC) 1272/2008 (CLP)
Hazard class	Hazard category	Hazard statement
Eye Irrit.	2	H319-Causes serious eye irritation.
STOT SE	3	H335-May cause respiratory irritation.
Skin Irrit.	2	H315-Causes skin irritation.
Resp. Sens.	1	H334-May cause allergy or asthma
		symptoms or breathing difficulties if inhaled.
Skin Sens.	1	H317-May cause an allergic skin reaction.
Carc.	2	H351-Suspected of causing cancer.
STOT RE	2	H373-May cause damage to organs through
		prolonged or repeated exposure by
		inhalation (respiratory system).

2.2 Label elements

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



H319-Causes 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 allergic skin reaction. H351-Suspected of causing cancer. H373-May cause damage to organs through prolonged or repeated exposure by inhalation (respiratory system).

P201-Obtain special instructions before use. P260-Do not breathe vapours or spray. P280-Wear

P201-Obtain special instructions before Use. P200-D0 hot breather vapours or spray. P230-We protective gloves / protective clothing / eye protection / face protection. P284-Wear respiratory protection. P284-P382-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 cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313-IF exposed or concerned: Get medical advice / attention.

EUH204-Contains isocyanates. May produce an allergic reaction.

As from 24 August 2023 adequate training is required before industrial or professional use. Diphenylmethanediisocyanate, isomeres and homologues 4.4'-methylenediphenyl diisocyanate Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate Methylenediphenyl diisocyanate, modified 2.3 Other hazards 2.3 Utter nazaros The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %). The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %). The mixture does not contain any substance with endocrine disrupting properties (< 0,1 %).</p> **SECTION 3: Composition/information on ingredients** 

n.a. 3 2 Mixturos	
3.2 Mixtures Diphenylmethanediisocyanate, isomeres and	
nomologues Registration number (REACH)	
ndex	
INECS, ELINCS, NLP, REACH-IT List-No.	
AS ontent %	<u>9016-87-9</u> 10-<20
lassification according to Regulation (EC) 1272/2008	Acute Tox. 4, H332
CLP), M-factors	Skin Irrit. 2, H315 Eye Irrit. 2, H319
	Resp. Sens. 1, H334
	Skin Sens. 1, H317 Carc. 2, H351
	STOT SE 3, H335
	STOT RE 2, H373 (respiratory system) (as inhalation)
pecific 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 %
eaction mass of 4,4'-methylenediphenyl diisocyanate	
nd o-(p-isocyanatobenzyl)phenyl isocyanate	
egistration number (REACH)	01-2119457015-45-XXXX
Idex INECS, ELINCS, NLP, REACH-IT List-No.	905-806-4
AS	
ontent % lassification according to Regulation (EC) 1272/2008	5-<10 Acute Tox. 4, H332
CLP), M-factors	Skin Irrit. 2, H315
	Eye Irrit. 2, H319 Skin Sens. 1, H317
	Resp. Sens. 1, H334
	Carc. 2, H351 STOT SE 3, H335
	STOT RE 2, H373 (respiratory system) (as
pecific Concentration Limits and ATE	inhalation) Skin Irrit. 2, H315: >=5 %
pecific Concentration Limits and ATE	Eye Irrit. 2, H319: >=5 %
	Resp. Sens. 1, H334: >=0,1 %
	STOT SE 3, H335: >=5 %
Iethylenediphenyl diisocyanate, modified	01-2119457013-49-XXXX
Registration number (REACH) ndex	
INECS, ELINCS, NLP, REACH-IT List-No.	500-040-3
AS ontent %	25686-28-6 5-<10
Classification according to Regulation (EC) 1272/2008	Acute Tox. 4, H332
CLP), M-factors	Skin Irrit. 2, H315 Eye Irrit. 2, H319
	Skin Sens. 1, H317
	Resp. Sens. 1, H334 Carc. 2, H351
	STOT SE 3, H335
	STOT RE 2, H373 (respiratory system) (as inhalation)
pecific 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 %
ropylene carbonate	
egistration number (REACH)	01-2119537232-48-XXXX
Idex INECS, ELINCS, NLP, REACH-IT List-No.	607-194-00-1 203-572-1
AS	108-32-7
ontent %	5-<10 Evolveit 2 H210
lassification according to Regulation (EC) 1272/2008 CLP), M-factors	Eye Irrit. 2, H319
4 mothy long dishen yil dija a su su sta	
	01-2119457014-47-XXXX
egistration number (REACH) ndex	615-005-00-9
egistration number (REACH) ndex INECS, ELINCS, NLP, REACH-IT List-No.	615-005-00-9 202-966-0
egistration number (REACH) Idex INECS, ELINCS, NLP, REACH-IT List-No. AS ontent %	615-005-00-9 202-966-0 101-68-8 17
egistration number (REACH) Idex INECS, ELINCS, NLP, REACH-IT List-No. IAS ontent % Tassification according to Regulation (EC) 1272/2008	615-005-00-9 202-966-0 101-68-8 1-<7 Acute Tox. 4, H332
egistration number (REACH) Idex INECS, ELINCS, NLP, REACH-IT List-No. IAS ontent % Tassification according to Regulation (EC) 1272/2008	615-005-00-9 202-966-0 101-68-8 17
egistration number (REACH) Idex INECS, ELINCS, NLP, REACH-IT List-No. IAS ontent % Tassification according to Regulation (EC) 1272/2008	615-005-00-9 202-966-0 101-68-8 1-<7 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334
egistration number (REACH) Idex INECS, ELINCS, NLP, REACH-IT List-No. IAS ontent % lassification according to Regulation (EC) 1272/2008	615-005-00-9 202-966-0 101-68-8 1-<7 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319
egistration number (REACH) Idex INECS, ELINCS, NLP, REACH-IT List-No. IAS ontent % lassification according to Regulation (EC) 1272/2008	615-005-00-9 202-966-0 101-68-8 1-<7 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335
egistration number (REACH) Idex INECS, ELINCS, NLP, REACH-IT List-No. IAS ontent % lassification according to Regulation (EC) 1272/2008	615-005-00-9 202-966-0 101-68-8 1-<7 Acute Tox. 4, H332 Skin Irit. 2, H315 Eye Irit. 2, H319 Resp. Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT SE 2, H373 (respiratory system) (as
tegistration number (REACH) ndex INECS, ELINCS, NLP, REACH-IT List-No. AS ontent % Jassification according to Regulation (EC) 1272/2008 CLP), M-factors	615-005-00-9 202-966-0 101-68-8 1-<7 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373 (respiratory system) (as inhalation) Skin Irrit. 2, H315: >=5 %
k,4-methylenediphenyl diisocyanate Registration number (REACH) ndex INECS, ELINCS, NLP, REACH-IT List-No. SAS Jassification according to Regulation (EC) 1272/2008 CLP), M-factors	615-005-00-9 202-966-0 101-68-8 1-<7 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373 (respiratory system) (as inhalation)

a and additional information may have been taken into account in classifying and labelling Implifies, less data and additional information may neve been taken mice become a strategy in the product. For the text of the H-phrases and classification codes (GHS/CLP), see Section 16. The substances named in this section are given with their actual, appropriate classification!



GB Page 2 of 8 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II	Avoid inholation of the						
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II	Avoid inhalation of the	vapours. neasures at the workstation	on or on the processi	na machine	necessar	v	
Revision date / version: 01.11.2021 / 0009	Avoid contact with eye			ng maonine	neccosai	y.	
Replacing version dated / version: 02.08.2021 / 0008	No contact with produc	cts of this type in case of	allergies, asthma und	d chronic res	piratory ti	act disorde	rs.
Valid from: 01.11.2021		ing, as well as food-stora		ork-room.			
PDF print date: 01.11.2021 COSMO® PU-160.540		label and instructions for according to operating in					
COSMO® PU-160.690		eneral hygiene me		orkolaco			
COSMO® PU-160.710		sures for the handling of c			•		
COSMO® PU-160.720		eaks and at end of work.					
Encycle damae that are listed in annual in Musella 0.4 c(the completion (EQ) and 4070/0000 (OLD encycletion)	Keep away from food,	drink and animal feeding					
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.		clothing and protective e				ood is consi	umed.
The addition of the highest concentrations listed here can result in a classification. Only when this		or safe storage, ind		ompatibi	lities		
classification is listed in Section 2 does it apply. In all other cases the total concentration is below the	Keep out of access to	unauthorised individuals.					
classification.	Not to be stored in gan	ngways or stair wells. Ind only in original packin	a				
SECTION 4. Einst aid massures		irect sunlight and temper					
SECTION 4: First aid measures	Only store at temperat	ures from 15°C to 25°C.					
	Store in a dry place.						
4.1 Description of first aid measures	7.3 Specific end	use(s)					
First-aiders should ensure they are protected!	Adhesive						
Never pour anything into the mouth of an unconscious person!		ns for good working pract					
Inhalation	industry or different inc	ostance information syste	nis, e.g. nom tile pro	lessional as	SUCIALIUN	s, the chem	ICdi
Remove person from danger area.		ication (building materials	s, wood, chemistry, la	aboratory, lea	ather, me	tal).	
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.	Observe special requir	ements for isocyanates,					definition
Respiratory arrest - Artificial respiration apparatus necessary.	of protective measures	S.					
Skin contact	SECT	ION 8: Exposur	a controls/n	orsonal	nrote	ction	
Wipe off residual product carefully with a soft, dry cloth.	02011		c 00111 013/p	ci soniui	prote		
Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of							
irritation of the skin (flare), consult a doctor.	8.1 Control para	meters					
Dab away with polyethylene glycol 400	· ·						
Eye contact Remove contact lenses.	GB Chemical Name		anediisocyanate, isor				
Remove contact lenses. Wash thoroughly for several minutes using copious water - call doctor immediately, have Data Sheet available.	WEL-TWA: 0,02 mg/		VEL-STEL: 0,07 m	g/m3 (Isocya	inates,		
Ingestion	all (as -NCO)) Monitoring procedures		II (as -NCO))				
Rinse the mouth thoroughly with water.		anate-derived diamine/m	ol creatinine in urine	Other in	formation	n: Sen	
Do not induce vomiting - give copious water to drink. Consult doctor immediately.	(At the end of the perio					(as -NCO))	
4.2 Most important symptoms and effects, both acute and delayed		Deseties		a ha sa a di all'a a s			
If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1.	GB Chemical Name		s of 4,4'-methylenedi zyl)phenyl isocyanat		cyanate a	na o-(p-	
In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.	WEL-TWA: 0,02 mg/		VEL-STEL: 0,07 m		inates.		
4.3 Indication of any immediate medical attention and special treatment needed	all (as -NCO))	a	ll (as -NCO))	5 . ( , .	,		
In case of irritation of the lungs, perform first-aid with controlled-dosage aerosol dexamethasone. Pulmonary oedema prophylaxis	Monitoring procedures	: <u></u>		0.1			
Medical supervision necessary due to possibility of delayed reaction.	(At the end of the period	anate-derived diamine/m	ol creatinine in urine		nformation	i: Sen (as -NCO))	
					natos, an		
SECTION 5: Firefighting measures	GB Chemical Name		enyl diisocyanate, m				
	* WEL-TWA: 0,02 mg/ all (as -NCO))		VEL-STEL: 0,07 m II (as -NCO))	g/m3 (Isocya	inates,		
5.1 Extinguishing media	Monitoring procedures		16702 (Workplace a	air quality – q	determina	tion of total	
Suitable extinguishing media			yanate groups in air				zine and
CO2		- liqu	id chromatography) -	2007			
Extinction powder		MD	HS 25/4 (Organic iso	cyanates in	air – Lab	pratory meth	nod using
Water jet spray			npling either onto 2-( e filters followed by s				
Foam			lysis using high perfe				
Unsuitable extinguishing media		anate-derived diamine/m			formation		
High volume water jet	(At the end of the period	od of exposure)					
5.2 Special hazards arising from the substance or mixture	GB Chemical Name	4 4'-methylene	diphenyl diisocyanat	e			
In case of fire the following can develop: Oxides of carbon	WEL-TWA: 0,02 mg/		VEL-STEL: 0,07 m		inates,		
Oxides of nitrogen	all (as -NCO))	a	II (as -NCO))				
Isocyanates	Monitoring procedures	: ISC	16702 (Workplace a syanate groups in air				to a solution
Hydrocyanic acid (hydrogen cyanide)			id chromatography) -		lietnoxypr	ienyipipera.	zine and
Toxic gases Danger of bursting (explosion) when heated			HS 25/4 (Organic iso		air – Lab	oratory meth	nod using
5.3 Advice for firefighters			npling either onto 2-(				
For personal protective equipment see Section 8.			e filters followed by s lysis using high perfe				
In case of fire and/or explosion do not breathe fumes.			project BC/CEN/EN				2015 -
Protective respirator with independent air supply.			SH 5521 (ISOCYAN				
According to size of fire Full protection, if necessary.			SH 5522 (ISOCYAN				
Cool container at risk with water.			SH 5525 (ISOCYAN HA 18 (Diisocyanate				
Dispose of contaminated extinction water according to official regulations.			HA 18 (Dilsocyanate HA 47 (Methylene Bi				
SECTION 6: Accidental release measures		anate-derived diamine/m	ol creatinine in urine	Other in	nformation	n: Sen	
SECTION 6. ACCIDENTAL TELEASE INEASULES	(At the end of the period	od of exposure)		(Isocya	nates, all	(as -NCO))	
6.1 Personal precautions, protective equipment and emergency procedures							
6.1.1 For non-emergency personnel		ocyanate, isomeres and		Der 1	N	1114	Nete
In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to	Area of application	Exposure route / Environmental	Effect on health	Descri ptor	Valu e	Unit	Note
prevent contamination. Ensure sufficient ventilation, remove sources of ignition.		compartment	neaith	pior	e		
Avoid dust formation with solid or powder products.		Environment -		PNEC	3,7	µg/l	
Leave the danger zone if possible, use existing emergency plans if necessary.		freshwater					
Ensure sufficient supply of air.		Environment - marine		PNEC	0,37	µg/l	
Avoid inhalation, and contact with eyes or skin.		Environment -		PNEC	11,7	mg/kg	<u> </u>
If applicable, caution - risk of slipping. 6.1.2 For emergency responders		sediment, freshwater					
See section 8 for suitable protective equipment and material specifications.		Environment -		PNEC	1,17	mg/kg	
6.2 Environmental precautions		sediment, marine		DNEO	2.22	ma/ka	
If leakage occurs, dam up.	Workers /	Environment - soil Human - inhalation	Short term,	PNEC DNEL	2,33 0,1	mg/kg mg/m3	
Resolve leaks if this possible without risk.	employees		local effects	DINEL	0,1	ilig/ilio	
Prevent surface and ground-water infiltration, as well as ground penetration.	Workers /	Human - inhalation	Long term,	DNEL	0,05	mg/m3	
Prevent from entering drainage system.	employees		local effects				
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	Reaction mass of 4 4	-methylenediphenyl dii	socyanate and o-(n	-isocvanato	benzvi)n	henvl isoc	vanate
Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth, sawdust) and dispose of according to Section 13.	Area of application	Exposure route /	Effect on	Descri	Valu	Unit	Note
Allow to stand for a few days in an unclosed container until reaction no longer occurs.		Environmental	health	ptor	e		
Keep moist.		compartment			67		
Do not close packing drum.		Environment -		PNEC	37	µg/l	
CO2 formation in closed tanks causes pressure to rise.		freshwater Environment -		PNEC	0,37	µg/l	
6.4 Reference to other sections For personal protective equipment see Section 8 and for disposal instructions see Section 13.		marine					
		Environment - soil		PNEC	2,33	mg/kg	
SECTION 7: Handling and storage		Environment -		PNEC	1	mg/l	7
		sewage treatment					
In addition to information given in this section, relevant information can also be found in section 8 and 6.1				PNEC	3,7	µg/l	
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		sewage treatment plant Environment - water, sporadic		PNEC	3,7	µg/l	
7.1 Precautions for safe handling		sewage treatment plant Environment -		PNEC	3,7	µg/l	
		sewage treatment plant Environment - water, sporadic		PNEC	3,7	µg/I	



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	Environment - sediment, freshwater		PNEC	11,7	mg/kg dry weight	
	Environment - sediment, marine		PNEC	1,17	mg/kg dry weight	
Consumer	Human - inhalation	Long term, local effects	DNEL	0,02 5	mg/m3	
Consumer	Human - inhalation	Short term, local effects	DNEL	0,05	mg/m3	
Workers / employees	Human - inhalation	Short term, local effects	DNEL	0,1	mg/m3	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	0,05	mg/m3	

Area of application	Exposure route / Environmental compartment	Effect on health	Descri ptor	Valu e	Unit	Note
	Environment - sporadic (intermittent) release		PNEC	9	mg/l	
	Environment - marine		PNEC	0,09	mg/l	
	Environment - sediment, marine		PNEC	0,08 3	mg/l	
	Environment - soil		PNEC	0,81	mg/l	
	Environment - freshwater		PNEC	0,9	mg/l	
	Environment - sediment, freshwater		PNEC	0,83	mg/l	
	Environment - sewage treatment plant		PNEC	740 0	mg/l	
Consumer	Human - oral	Long term, systemic effects	DNEL	10	mg/kg	
Consumer	Human - dermal	Long term, systemic effects	DNEL	10	mg/kg	
Consumer	Human - inhalation	Long term, local effects	DNEL	10	mg/m3	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	17,4	mg/m3	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	70,5 3	mg/kg	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	176	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	20	mg/kg	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	20	mg/m3	

Area of application	Exposure route /	Effect on	Descri	Valu	Unit	Note	
	Environmental	health	ptor	e			
	compartment		<b>P</b>	-			
	Environment -		PNEC	3,7	µg/l		
	freshwater						
	Environment -		PNEC	0,37	µg/l		
	marine						
	Environment -		PNEC	1	mg/l		
	sewage treatment				-		
	plant						
	Environment - soil		PNEC	2,33	mg/kg		
					dw		
	Environment -		PNEC	37	µg/l		
	sporadic						
	(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					

 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). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (11) = Inhalable fraction (Directive 2004/37/CE). (12) = Inhalable fraction in those Member States that implement, on the date of the entry into force of this Directive automative to biomediate entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0.002 mg Cd/g creatinine in urine (Directive 2004/37/CE). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period).

(8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, (a) = initiaadier taction (2017/04/E0, 2017/2596/E0). (b) = Kespiratier faultin (2017/04/E0, 2017/2598/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage. = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with

(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 exposure to chemical and biological agents" Guide for the application and use of procedures for the assessment of

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.

Eve/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:

>= 120 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 themeteric to expect the second 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 manufacture

values inclining additional additional 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 pro

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

9.1 Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	Reddish
Odour:	Characteristic
Melting point/freezing point:	There is no information available on this parameter.
Boiling point or initial boiling point and boiling range:	There is no information available on this parameter.
Flammability:	Combustible.
Lower explosion limit:	There is no information available on this parameter.
Upper explosion limit:	There is no information available on this parameter.
Flash point:	There is no information available on this parameter.
Auto-ignition temperature:	There is no information available on this parameter.
Decomposition temperature:	There is no information available on this parameter.
pH:	Mixture reacts with water.
Kinematic viscosity:	4100 mPas (Dynamic viscosity)
Solubility:	Not miscible
Partition coefficient n-octanol/water (log value):	Does not apply to mixtures.
Vapour pressure:	There is no information available on this parameter.
Density and/or relative density:	~1,1 g/cm3 (20°C)
Relative vapour density:	There is no information available on this parameter.
Particle characteristics:	Does not apply to liquids.
9.2 Other information	
Explosives:	Product is not explosive.
Oxidising liquids:	No

# **SECTION 10: Stability and reactivity**

10.1 Reactivity 10.2 Chemical stability Stable with proper storage and handling. 10.3 Possibility of hazardous reactions Exothermic reaction possible with: Alcohols Amines Bases Acids Water Developement of:



(GB)													
Page 4 of 8 Safety data sheet accor Revision date / version: Replacing version datec Valid from: 01.11.2021 PDF print date: 01.11.21 COSMO® PU-160.540 COSMO® PU-160.590	01.11.2021 I / version: 0	/ 0009		06, Annex II			Specific target organ toxicity - single exposure (STOT-SE), inhalative: Specific target organ						Target organ(s): respiratory system, May cause respiratory irritation. Target
COSMO® PU-160.710 COSMO® PU-160.720							toxicity - repeated exposure (STOT-RE),						organ(s): respiratory
Carbon dioxide							inhalat.: Symptoms:						system breathing
CO2 formation in closed Pressure increase will re <b>10.4 Conditions t</b> e Protect from humidity. Polymerisation due to h	esult in dang o avoid	er of bursting					Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	LOAE L	1	mg/m 3	Rat	OECD 453 (Combined Chronic Toxicity/Carcinog	difficulties Aerosol, Analogous conclusion
T > ~ 260°C <b>10.5 Incompatible</b> Acids Bases	material	s					Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAE L	0,2	mg/m 3	Rat	enicity Studies) OECD 453 (Combined Chronic Toxicity/Carcinog	Aerosol, Analogous conclusion
Amines Alcohols												enicity Studies)	
Water 10.6 Hazardous d	ecompos	sition pro	ducts				Reaction mass of 4,4'-n Toxicity / effect	nethylened Endpo	iphenyl diisc Value	cyanate a Unit	nd o-(p-isocy Organis	anatobenzyl)phenyl Test method	isocyanate Notes
No decomposition when								int			m		Notes
	SECTIO	N 11: To	oxicolo	gical info	ormation		Acute toxicity, by oral route:	LD50	> 10000	mg/k g	Rat		
							Acute toxicity, by dermal route:	LD50	> 9400	mg/k g	Rabbit		
11.1. Information Possibly more information						1272/2008	Acute toxicity, by inhalation:	LC50	0,49	mg/l/ 4h	Rat		Mist, Dust:,
COSMO® PU-160.540 COSMO® PU-160.690 COSMO® PU-160.710 COSMO® PU-160.720													Does not conform with EU classificatio
Toxicity / effect	Endpo int	Value	Unit	Organis m	Test method	Notes	Skin				Rabbit	OECD 404	n. Irritant
Acute toxicity, by oral route: Acute toxicity, by						n.d.a.	corrosion/irritation:					(Acute Dermal Irritation/Corrosio n)	
dermal route: Acute toxicity, by inhalation:	ATE	>20	mg/l/ 4h			calculated value,	Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Yes (inhalation and skin
Skin corrosion/irritation:						Vapours n.d.a.	Germ cell mutagenicity:				Salmonel	Regulation (EC) 440/2008	contact) Negative
Serious eye						n.d.a.					typhimuri um	B.13/B.14 (REVERSE	
damage/irritation: Respiratory or skin						n.d.a.					un	MUTATION TEST USING	
sensitisation: Germ cell			-			n.d.a.	Germ cell				Rat	BACTERIA) OECD 474	Negotivo
mutagenicity: Carcinogenicity: Reproductive toxicity: Specific target organ						n.d.a. n.d.a. n.d.a.	mutagenicity:				Rat	(Mammalian Erythrocyte Micronucleus Test)	Negative
toxicity - single exposure (STOT-SE): Specific target organ toxicity - repeated						n.d.a.	Carcinogenicity:				Rat	OECD 453 (Combined Chronic	Carc. 2
												Toxicity/Carcinog	
exposure (STOT-RE): Aspiration hazard:						n.d.a.							
exposure (STOT-RE): Aspiration hazard: Symptoms:		moros and	homologu			n.d.a. n.d.a.	Methylenediphenyl diis Toxicity / effect		modified Value	Unit	Organis	Toxicity/Carcinog enicity Studies)	Notes
exposure (STOT-RE): Aspiration hazard:	Endpo	omeres and Value	homologue	Organis	Test method		Toxicity / effect	Endpo int	Value	Unit	Organis m Rat	Toxicity/Carcinog enicity Studies) Test method	Notes
exposure (STOT-RE): Aspiration hazard: Symptoms: Diphenylmethanediiso					OECD 401 (Acute Oral	n.d.a.	Toxicity / effect Acute toxicity, by oral route:	Endpo	modified Value >2000	Unit mg/k g	m Rat	Toxicity/Carcinog enicity Studies) Test method OECD 401 (Acute Oral Toxicity)	Analogous conclusion
exposure (STOT-RE): Aspiration hazard: Symptoms: Diphenylmethanediiso Toxicity / effect Acute toxicity, by oral	Endpo int	Value	Unit mg/k	Organis m	OECD 401 (Acute Oral Toxicity) OECD 402 (Acute Dermal	n.d.a.	Skin           corrosion/irritation:	Endpo int	Value	mg/k	m Rat Rabbit	Toxicity/Carcinog enicity Studies) Test method OECD 401 (Acute Oral Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n)	Analogous conclusion Skin Irrit. 2
exposure (STOT-RE): Aspiration hazard: Symptoms: Diphenylmethanediiso Toxicity / effect Acute toxicity, by oral route: Acute toxicity, by	Endpo int LD50	Value >5000	Unit mg/k g mg/k	Organis m Rat	OECD 401 (Acute Oral Toxicity) OECD 402	Aerosol, Does not conform	Toxicity / effect Acute toxicity, by oral route: Skin corrosion/irritation: Serious eye damage/irritation:	Endpo int	Value	mg/k	m Rat	Toxicity/Carcinog enicity Studies) Test method OECD 401 (Acute Oral Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio	Analogous conclusion Skin Irrit. 2 Eye Irrit. 2
exposure (STOT-RE): Aspiration hazard: Symptoms: Diphenylmethanediiso Toxicity / effect Acute toxicity, by oral route: Acute toxicity, by dermal route: Acute toxicity, by	Endpo int LD50 LD50	Value >5000 >5000 0,31-	Unit mg/k g mg/k g mg/l/	Organis m Rat Rabbit	OECD 401 (Acute Oral Toxicity) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation	n.d.a. Notes Aerosol, Does not conform with EU classificatio	Toxicity / effect Acute toxicity, by oral route: Skin corrosion/irritation: Serious eye	Endpo int	Value	mg/k	m Rat	Toxicity/Carcinog enicity Studies) Test method OECD 401 (Acute Oral Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n)	Analogous conclusion Skin Irrit. 2 Eye Irrit. 2 Yes (inhalation)
exposure (STOT-RE): Aspiration hazard: Symptoms: DiphenyImethanediiso Toxicity / effect Acute toxicity, by oral route: Acute toxicity, by dermal route: Acute toxicity, by inhalation: Skin	Endpo int LD50 LD50	Value >5000 >5000 0,31-	Unit mg/k g mg/k g mg/l/	Organis m Rat Rabbit	OECD 401 (Acute Oral Toxicity) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 404	n.d.a. Notes Aerosol, Does not conform with EU	Toxicity / effect Acute toxicity, by oral route: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitisation: Respiratory or skin sensitisation:	Endpo int	Value	mg/k	m Rat Rabbit Rabbit Mouse Guinea pig	Toxicity/Carcinog enicity Studies) Test method OECD 401 (Acute Oral Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 406 (Skin Sensitisation)	Analogous conclusion Skin Irrit. 2 Eye Irrit. 2 Yes
exposure (STOT-RE): Aspiration hazard: Symptoms: Diphenylmethanediiso Toxicity / effect Acute toxicity, by oral route: Acute toxicity, by dermal route: Acute toxicity, by inhalation:	Endpo int LD50 LD50	Value >5000 >5000 0,31-	Unit mg/k g mg/k g mg/l/	Organis m Rat Rabbit Rat	OECD 401 (Acute Oral Toxicity) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio	n.d.a.           Notes           Aerosol,           Does not           conform           with EU           classificatio           n.	Toxicity / effect Acute toxicity, by oral route: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin Respiratory or skin	Endpo int	Value	mg/k	m Rat Rabbit Rabbit Mouse Guinea	Toxicity/Carcinog enicity Studies) Test method OECD 401 (Acute Oral Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 406 (Skin	Analogous conclusion Skin Irrit. 2 Eye Irrit. 2 Yes (inhalation) Yes (skin
exposure (STOT-RE): Aspiration hazard: Symptoms: DiphenyImethanediiso 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 0,31-	Unit mg/k g mg/k g mg/l/	Organis m Rat Rabbit Rat Rabbit Rabbit	OECD 401 (Acute Oral Toxicity) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n)	n.d.a.       Notes       Aerosol,       Does not       conform       with EU       classificatio       n.       Skin Irrit. 2       Eye Irrit. 2	Toxicity / effect Acute toxicity, by oral route: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitisation: Respiratory or skin sensitisation: Germ cell	Endpo int	Value	mg/k	m Rat Rabbit Rabbit Mouse Guinea pig Salmonel	Toxicity/Carcinog enicity Studies) Test method OECD 401 (Acute Oral Toxicity) OECD 404 (Acute Dermal Initation/Corrosio n) OECD 405 (Acute Eye Initiation/Corrosio n) OECD 406 (Skin Sensitisation) Regulation (EC)	Analogous conclusion Skin Irrit. 2 Eye Irrit. 2 Yes (inhalation) Yes (skin contact)
exposure (STOT-RE): Aspiration hazard: Symptoms: Diphenylmethanediiso 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	Endpo int LD50 LD50	Value >5000 >5000 0,31-	Unit mg/k g mg/k g mg/l/	Organis m Rat Rabbit Rat Rabbit	OECD 401 (Acute Oral Toxicity) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 406 (Skin	n.d.a. Notes Aerosol, Does not conform with EU classificatio n. Skin Irrit. 2	Toxicity / effect Acute toxicity, by oral route: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitisation: Respiratory or skin sensitisation: Germ cell	Endpo int	Value	mg/k	m Rat Rabbit Rabbit Mouse Guinea pig Salmonel Ia typhimuri	Toxicity/Carcinog enicity Studies) Test method OECD 401 (Acute Oral Toxicity) OECD 404 (Acute Dermal Initation/Corrosio n) OECD 405 (Acute Eye Initiation/Corrosio n) OECD 406 (Skin Sensitisation) Regulation (EC) 440/2008 B.13/B.14 (REVERSE MUTATION TEST USING BACTERIA) OECD 474 (Mammalian Erythrocyte Micronucleus	Analogous conclusion Skin Irrit. 2 Eye Irrit. 2 Yes (inhalation) Yes (skin contact)
exposure (STOT-RE): Aspiration hazard: Symptoms: DiphenyImethanediiso Toxicity / effect Acute toxicity, by oral route: Acute toxicity, by dermal route: Acute toxicity, by inhalation: Skin corrosion/irritation: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitisation:	Endpo int LD50 LD50	Value >5000 >5000 0,31-	Unit mg/k g mg/k g mg/l/	Organis m Rat Rabbit Rat Rabbit Rabbit Mouse	OECD 401 (Acute Oral Toxicity) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 429 (Skin Sensitisation - Local Lymph Node Assay)	n.d.a.       Notes       Aerosol,       Does not       conform       with EU       classificatio       n.       Skin Irrit. 2       Eye Irrit. 2       Yes (skin       contact),       Analogous       conclusion	Toxicity / effect         Acute toxicity, by oral route:         Skin corrosion/irritation:         Serious eye damage/irritation:         Respiratory or skin sensitisation:         Respiratory or skin sensitisation:         Germ cell mutagenicity:         Germ cell mutagenicity:         Specific target organ	Endpo int	Value	mg/k g	m Rat Rabbit Rabbit Mouse Guinea pig Salmonel Ia typhimuri um	Toxicity/Carcinog enicity Studies) Test method OECD 401 (Acute Oral Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 406 (Skin Sensitisation) Regulation (EC) 440/2008 B.13/B.14 (REVERSE MUTATION EST USING BACTERIA) OECD 474 (Mammalian Erythrocyte Micronucleus Test) OECD 453	Analogous conclusion Skin Irrit. 2 Eye Irrit. 2 Yes (inhalation) Yes (skin contact) Negative
exposure (STOT-RE): Aspiration hazard: Symptoms: DiphenyImethanediiso 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 0,31-	Unit mg/k g mg/k g mg/l/	Organis m Rat Rabbit Rat Rabbit Rabbit Mouse Guinea pig Rat	OECD 401 (Acute Oral Toxicity) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity) 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	n.d.a.  Aerosol, Does not conform with EU classificatio n. Skin Irrit. 2  Yes (skin contact), Analogous conclusion Yes (skin (inhalation))	Toxicity / effect Acute toxicity, by oral route: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitisation: Respiratory or skin sensitisation: Germ cell mutagenicity: Specific target organ toxicity - repeated	Endpo int LD50	Value >2000	mg/k g	m Rat Rabbit Rabbit Mouse Guinea pig Salmonel Ia typhimuri um	Toxicity/Carcinog enicity Studies) Test method OECD 401 (Acute Oral Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 406 (Skin Sensitisation) Regulation (EC) 440/2008 B.13/B.14 (REVERSE MUTATION TEST USING BACTERIA) OECD 474 (Marmalian Erythrocyte Micronucleus Test)	Analogous conclusion Skin Irrit. 2 Eye Irrit. 2 Yes (inhalation) Yes (skin contact) Negative
exposure (STOT-RE): Aspiration hazard: Symptoms: DiphenyImethanediiso 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	Endpo int LD50 LD50	Value >5000 >5000 0,31-	Unit mg/k g mg/k g mg/l/	Organis m Rat Rabbit Rat Rabbit Rabbit Mouse Guinea pig	OECD 401 (Acute Oral Toxicity) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 429 (Skin Sensitisation - Local Lymph Node Assay) OECD 406 (Skin Sensitisation) OECD 474 (Mammalian Erythrocyte Micronucleus	n.d.a.       Notes       Aerosol,       Does not conform with EU classificatio n.       Skin Irrit. 2       Eye Irrit. 2       Yes (skin contact),       Analogous conclusion       Yes (skin contact)       Yes	Toxicity / effect         Acute toxicity, by oral route:         Skin         corrosion/irritation:         Serious eye damage/irritation:         Respiratory or skin sensitisation:         Respiratory or skin sensitisation:         Germ cell mutagenicity:         Germ cell mutagenicity:         Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	Endpo int LD50	Value >2000	mg/k g	m Rat Rabbit Rabbit Mouse Guinea pig Salmonel Ia typhimuri um	Toxicity/Carcinog enicity Studies) Test method OECD 401 (Acute Oral Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 406 (Skin Sensitisation) Regulation (EC) 440/2008 B.13/B.14 (REVERSE MUTATION TEST USING BACTERIA) OECD 474 (Mammalian Erythrocyte Michrocyte	Analogous conclusion Skin Irrit. 2 Eye Irrit. 2 Yes (inhalation) Yes (skin contact) Negative
exposure (STOT-RE): Aspiration hazard: Symptoms: DiphenyImethanediiso Toxicity / effect Acute toxicity, by oral route: Acute toxicity, by dermal route: Acute toxicity, by inhalation: Skin corrosion/irritation: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitisation: Respiratory or skin sensitisation: Germ cell	Endpo int LD50 LD50	Value >5000 >5000 0,31-	Unit mg/k g mg/k g mg/l/	Organis         m         Rat         Rabbit         Rat         Rabbit         Rabbit         Mouse         Guinea         pig         Rat         Salmonel	OECD 401 (Acute Oral Toxicity) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 403 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 429 (Skin Sensitisation - Local Lymph Node Assay) OECD 406 (Skin Sensitisation) OECD 406 (Skin Sensitisation) OECD 406 (Skin Sensitisation)	n.d.a.  Notes  Aerosol, Does not conform with EU classificatio n. Skin Irrit. 2  Yes (skin contact), Analogus conclusion Yes (skin contact) Yes (inhalation) Negative, Analogous	Toxicity / effect         Acute toxicity, by oral route:         Skin         corrosion/irritation:         Serious eye damage/irritation:         Respiratory or skin sensitisation:         Respiratory or skin sensitisation:         Germ cell mutagenicity:         Germ cell mutagenicity:         Specific target organ toxicity - repeated exposure (STOT-RE),	Endpo int LD50	Value >2000	mg/k g	m Rat Rabbit Rabbit Mouse Guinea pig Salmonel la typhimuri um Rat Rat	Toxicity/Carcinog enicity Studies) Test method OECD 401 (Acute Oral Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 406 (Skin Sensitisation) Regulation (EC) 440/2008 B.13/B.14 (REVERSE MUTATION TEST USING BACTERIA) OECD 474 (Mammalian Erythrocyte Micronucleus Test) OECD 453 (Combined Chronic Toxicity/Carcinog	Analogous conclusion Skin Irrit. 2 Eye Irrit. 2 Yes (inhalation) Yes (skin contact) Negative
exposure (STOT-RE): Aspiration hazard: Symptoms: DiphenyImethanediiso 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 LC50	Value >5000 >5000 0.31- 0.49	Unit mg/k g mg/k g mg/l/	Organis m Rat Rabbit Rat Rabbit Rabbit Mouse Guinea pig Rat Rat Salmonel la typhimuri umi	OECD 401 (Acute Oral Toxicity) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 404 (Skin Sensitisation) OECD 474 (Mammalian Erythrocyte Micronucleus Test) OECD 471 (Bacterial Reverse Mutation Test)	n.d.a.         Notes         Aerosol,         Does not         conform         with EU         classificatio         n.         Skin Irrit. 2         Yes (skin         contact),         Analogous         Yes (skin         contact),         Negative,         Analogous         conclusion         Negative	Toxicity / effect         Acute toxicity, by oral route:         Skin         corrosion/irritation:         Serious eye damage/irritation:         Respiratory or skin sensitisation:         Respiratory or skin sensitisation:         Germ cell mutagenicity:         Germ cell mutagenicity:         Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:         Propylene carbonate	NOEC	Value >2000	mg/k g	m Rat	Toxicity/Carcinog enicity Studies) Test method OECD 401 (Acute Oral Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 406 (Skin Sensitisation) Regulation (EC) 440/2008 B.13/B.14 (REVERSE MUTATION BACTERIA) OECD 405 (Mammalian Erythrocyte Micronucleus Test) OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies) Test method OECD 401 (Acute Oral	Analogous conclusion Skin Irrit. 2 Eye Irrit. 2 Yes (inhalation) Yes (skin contact) Negative Negative
exposure (STOT-RE): Aspiration hazard: Symptoms: DiphenyImethanediiso Toxicity / effect Acute toxicity, by oral route: Acute toxicity, by dermal route: Acute toxicity, by inhalation: Skin corrosion/irritation: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitisation: Respiratory or skin sensitisation: Germ cell	Endpo int LD50 LD50	Value >5000 >5000 0,31-	Unit mg/k g mg/k g mg/l/	Organis         m         Rat         Rabbit         Rabbit         Rabbit         Rabbit         Mouse         Guinea         pig         Rat         Rat         Salmonel         la         System	OECD 401 (Acute Oral Toxicity) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 404 (Acute Eye Irritation/Corrosio n) OECD 429 (Skin Sensitisation - Local Lymph Node Assay) OECD 406 (Skin Sensitisation) OECD 474 (Mammalian Erythrocyte Micronucleus Test) OECD 474 (Marmalian Erythrocyte Micronucleus Test) OECD 414 (Prenatal Developmental	n.d.a.         Notes         Aerosol,         Does not         conform         with EU         classificatio         n.         Skin Irrit. 2         Yes (skin         contact),         Analogous         conclusion         Yes (skin         contact)         Yes (skin         conclusion	Toxicity / effect         Acute toxicity, by oral route:         Skin         corrosion/irritation:         Serious eye damage/irritation:         Respiratory or skin sensitisation:         Respiratory or skin sensitisation:         Germ cell mutagenicity:         Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:         Propylene carbonate Toxicity / effect         Acute toxicity, by oral	Endpo int LD50	Value >2000	mg/k g mg/m 3 Unit mg/k	m Rat Rabbit Rabbit Mouse Guinea pig Salmonel Ia typhimuri um Rat Rat	Toxicity/Carcinog enicity Studies) Test method OECD 401 (Acute Oral Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 406 (Skin Sensitisation) Regulation (EC) 440/2008 B.13/B.14 (REVERSE MUTATION TEST USING BACTERIA) OECD 474 (Mammalian Erythrocyte Micronucleus Test) OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies) Test method OECD 401 (Acute Oral Toxicity) OECD 402 (Acute Dermal	Analogous conclusion Skin Irrit. 2 Eye Irrit. 2 Yes (inhalation) Yes (skin contact) Negative Negative
exposure (STOT-RE): Aspiration hazard: Symptoms: DiphenyImethanediiso 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 LD50 LC50	Value >5000 >5000 0.31- 0.49	Unit mg/k 9 mg/k 9 mg/l/ 4h	Organis m Rat Rabbit Rat Rabbit Rabbit Mouse Guinea pig Rat Rat Salmonel la typhimuri umi	OECD 401 (Acute Oral Toxicity) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 429 (Skin Sensitisation - Local Lymph Node Assay) OECD 429 (Skin Sensitisation) OECD 429 (Skin Sensitisation) OECD 406 (Skin Sensitisation) OECD 406 (Skin Sensitisation) OECD 471 (Bacterial Reverse Mutation Test) OECD 414 (Prenatal Developmental Toxicity Study) OECD 414	n.d.a.         Notes         Aerosol,         Does not         conform         with EU         classificatio         n.         Skin Irrit. 2         Eye Irrit. 2         Yes (skin         contact),         Analogous         conclusion         Yes (skin         conclusion         Yes (skin         conclusion         Negative         Aerosol,         Negative         Aerosol,         Limited	Toxicity / effect         Acute toxicity, by oral route:         Skin         corrosion/irritation:         Serious eye damage/irritation:         Respiratory or skin sensitisation:         Respiratory or skin sensitisation:         Germ cell mutagenicity:         Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:         Propylene carbonate Toxicity / effect         Acute toxicity, by oral route:         Acute toxicity, by	Endpo int LD50	Value >2000	mg/k g mg/m 3 Unit mg/k g	m Rat Rabbit Rabbit Mouse Guinea pig Salmonel Ia typhimuri um Rat Rat	Toxicity/Carcinog enicity Studies) Test method OECD 401 (Acute Oral Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 406 (Skin Sensitisation) Regulation (EC) 440/2008 B.13/B.14 (REVERSE MUTATION REST USING BACTERIA) OECD 474 (Marmalian Erythrocyte Micronucleus Test) OECD 433 (Combined Chronic Toxicity/Carcinog enicity Studies) <b>Test method</b> OECD 401 (Acute Dermal Toxicity) OECD 404 (Acute Dermal	Analogous conclusion Skin Irrit. 2 Eye Irrit. 2 Yes (inhalation) Yes (skin contact) Negative Negative
exposure (STOT-RE): Aspiration hazard: Symptoms: DiphenyImethanediiso Toxicity / effect Acute toxicity, by oral route: Acute toxicity, by dermal route: Acute toxicity, by inhalation: Acute toxicity, by inhalation: Skin corrosion/irritation: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitisation: Respiratory or skin sensitisation: Germ cell mutagenicity: Reproductive toxicity:	Endpo int LD50 LD50 LD50 LC50	Value >5000 >5000 0.31- 0.49	Unit mg/k 9 mg/k 9 mg/l/ 4h	Organis         m         Rat         Rabbit         Rat         Rabbit         Rabbit         Mouse         Guinea         pig         Rat         Rat         Salmonel         Ia         Yphimuri         um         Rat	OECD 401 (Acute Oral Toxicity) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 429 (Skin Sensitisation - Local Lymph Node Assay) OECD 429 (Skin Sensitisation) OECD 429 (Skin Sensitisation) OECD 429 (Skin Sensitisation) OECD 420 (Skin Sensitisation) OECD 420 (Skin Sensitisation) OECD 420 (Skin Sensitisation) OECD 474 (Mammalian Erythrocyte Micronucleus Test) OECD 471 (Bacterial Reverse Mutation Test) OECD 413	n.d.a.         Notes         Aerosol,         Does not         conform         with EU         classification         n.         Skin Irrit. 2         Eye Irrit. 2         Yes (skin contact),         Analogous conclusion         Yes (skin contact),         Analogous conclusion         Yes (skin contact),         Negative,         Negative         Aerosol,         Negative         Aerosol,         Limited         evidence         of a         carcinogeni	Toxicity / effect         Acute toxicity, by oral route:         Skin         corrosion/irritation:         Serious eye damage/irritation:         Respiratory or skin sensitisation:         Respiratory or skin sensitisation:         Germ cell mutagenicity:         Specific target organ toxicity - repeated exposure (STOT-RE), inhalat:         Propylene carbonate Toxicity / effect         Acute toxicity, by oral route:         Skin corrosion/irritation:         Serious eye	Endpo int LD50	Value >2000	mg/k g mg/m 3 Unit mg/k g	m Rat Rabbit Rabbit Mouse Guinea pig Salmonel Ia typhimuri um Rat Rat Organis m Rat	Toxicity/Carcinog enicity Studies) Test method OECD 401 (Acute Oral Toxicity) OECD 404 (Acute Dermal Initiation/Corrosio n) OECD 405 (Acute Eye Initiation/Corrosio n) OECD 406 (Skin Sensitisation) Corrosio n) OECD 406 (Skin Sensitisation) Corrosio n) OECD 406 (Skin Sensitisation) Corrosio n) OECD 406 (Skin Sensitisation) Corrosio n) OECD 406 (Skin Sensitisation) Corrosio n) OECD 407 (Acute Eye MUTATION TEST USING BACTERIA) OECD 474 (Mammalian Erythrocyte Micronucleus Test) OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies) OECD 401 (Acute Oral Toxicity) OECD 402 (Acute Dermal Toxicity) OECD 404 (Acute Dermal Initiation/Corrosio n) OECD 405	Analogous conclusion Skin Irrit. 2 Eye Irrit. 2 Yes (inhalation) Yes (skin contact) Negative Negative Negative
exposure (STOT-RE): Aspiration hazard: Symptoms: DiphenyImethanediiso Toxicity / effect Acute toxicity, by oral route: Acute toxicity, by dermal route: Acute toxicity, by inhalation: Acute toxicity, by inhalation: Skin corrosion/irritation: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitisation: Respiratory or skin sensitisation: Germ cell mutagenicity: Reproductive toxicity:	Endpo int LD50 LD50 LD50 LC50	Value >5000 >5000 0.31- 0.49	Unit mg/k 9 mg/k 9 mg/l/ 4h	Organis         m         Rat         Rabbit         Rat         Rabbit         Rabbit         Mouse         Guinea         pig         Rat         Rat         Salmonel         Ia         Yphimuri         um         Rat	OECD 401 (Acute Oral Toxicity) OECD 402 (Acute Dermal Toxicity) OECD 403 (Acute Inhalation Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 404 (Acute Eye Irritation/Corrosio n) OECD 404 (Acute Eye Irritation/Corrosio n) OECD 429 (Skin Sensitisation - Local Lymph Node Assay) OECD 406 (Skin Sensitisation) OECD 406 (Skin Sensitisation) OECD 474 (Mammalian Erythrocyte Micronucleus Test) OECD 471 (Bacterial Reverse Mutation Test) OECD 414 (Prenatal Developmental Toxicity/Carcinog	n.d.a.         Notes         Aerosol,         Does not         conform         with EU         classificatio         n.         Skin Irrit. 2         Yes (skin         contact),         Analogous         contact),         Yes (skin         contact)         Yes (skin         contact)         Negative,         Aerosol,         Negative         Aerosol,         Limited         evidence         of a	Toxicity / effect         Acute toxicity, by oral route:         Skin         corrosion/irritation:         Serious eye damage/irritation:         Respiratory or skin sensitisation:         Respiratory or skin sensitisation:         Germ cell mutagenicity:         Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:         Propylene carbonate Toxicity / effect         Acute toxicity, by oral route:         Acute toxicity, by oral route:         Skin corrosion/irritation:	Endpo int LD50	Value >2000	mg/k g mg/m 3 Unit mg/k g	m Rat Rabbit Rabbit Mouse Guinea pig Salmonel la typhimuri um Rat Rat Organis m Rat Rabbit Rabbit	Toxicity/Carcinog enicity Studies) Test method OECD 401 (Acute Oral Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n) OECD 405 (Acute Eye Irritation/Corrosio n) OECD 406 (Skin Sensitisation) Regulation (EC) 440/2008 B.13/B.14 (REVERSE MUTATION TEST USING BACTERIA) OECD 474 (Mammalian Erythrocyte Micronucleus Test) OECD 433 (Combined Chronic Toxicity/Carcinog enicity Studies) Test method OECD 401 (Acute Dermal Toxicity) OECD 404 (Acute Dermal Toxicity) OECD 404 (Acute Dermal Toxicity)	Analogous conclusion Skin Irrit. 2 Eye Irrit. 2 Yes (inhalation) Yes (skin contact) Negative Negative Negative



3D)														
B Page 5 of 8 Safety data sheet accord	ding to Regu	lation (EC) N	lo 1907/200	)6, Annex II			Specific target orga toxicity - single	n						May cause respiratory
Revision date / version: (	01.11.2021	/ 0009					exposure (STOT-SE	E),						irritation.
Replacing version dated Valid from: 01.11.2021	/ version: 02	2.08.2021 / 0	008				inhalative: Specific target orga	n NOA	E 0,2		mg/m	Rat	OECD 453	Aerosol,
PDF print date: 01.11.20 COSMO® PU-160.540	21						toxicity - repeated exposure (STOT-RI	L			3		(Combined Chronic	Analogous conclusion,
COSMO® PU-160.690							inhalat.:	_),					Toxicity/Carcinog	Target
COSMO® PU-160.710 COSMO® PU-160.720													enicity Studies)	organ(s): respiratory
			1			Nie (elde								system
Respiratory or skin sensitisation:				Human being		No (skin contact)	11.2. Informati	ion on oth	er haza	rds				
Germ cell mutagenicity:					OECD 471 (Bacterial	Negative	COSMO® PU-160.							
matagementy.					Reverse		COSMO® PU-160.0 COSMO® PU-160.0							
Germ cell					Mutation Test) OECD 474	Negative	COSMO® PU-160. Toxicity / effect	720 Endp	o Va	10	Unit	Organis	Test method	Notes
mutagenicity:					(Mammalian Erythrocyte			int		uc	onit	m		
					Micronucleus Test)		Endocrine disrupting properties:	g						Does not apply to
Germ cell					OECD 482	Negative	Other information:							mixtures. No other
mutagenicity:					(Gen. Tox DNA Damage		Guici momidadi.							relevant
					and Repair, Unscheduled									information available
					DNA Synthesis									on adverse effects on
					in Mammalian Cells In Vitro)									health.
Carcinogenicity:				Mouse	OECD 451 (Carcinogenicity	Negative		050		10. F-	- 1! -			
				_	Studies)			SEC		12: EC	ologi	cal inforr	nation	
Reproductive toxicity:	NOAE L	1000	mg/k g	Rat	OECD 414 (Prenatal	Negative	Possibly more infor	mation on env	ironment	al effects	see Sect	ion 2.1 (classif	fication)	
					Developmental Toxicity Study)		COSMO® PU-160.	540	Torinoria	ar encets,	300 0000	1011 2.1 (010331	ioution).	
Aspiration hazard:						No	COSMO® PU-160.0 COSMO® PU-160.0							
Symptoms:						breathing difficulties,	COSMO® PU-160. Toxicity / effect		Tim	Valu	Unit	Organism	Test	Notes
						headaches, gastrointes	-	t	e	e	Unit	Organism	method	
						tinal	12.1. Toxicity to fish:							n.d.a.
						disturbance s,	12.1. Toxicity to							n.d.a.
						dizziness, nausea	daphnia: 12.1. Toxicity to							n.d.a.
Specific target organ	NOEL	>5000	mg/k		OECD 408	nausea	algae: 12.2.							With water
toxicity - repeated exposure (STOT-RE),			g		(Repeated Dose 90-Day Oral		Persistence and							at the
oral:					Toxicity Study in		degradability:							interface, transforms
Specific target organ	NOEC	100	mg/m		Rodents) OECD 413	Dust, Mist								slowly with formation
toxicity - repeated exposure (STOT-RE),			3		(Subchronic Inhalation									of CO2
inhalat.:					Toxicity - 90-Day Study)									into a firm, insoluble
					Study)	·								reaction product
4,4'-methylenediphenyl Toxicity / effect	l diisocyana Endpo	ate Value	Unit	Organis	Test method	Notes								with a high melting
-	Int LD50	>2000		m										point
Acute toxicity, by oral route:	LD50	>2000	mg/k g	Rat	Regulation (EC) 440/2008 B.1	Analogous conclusion								(polycarba mide).
					(ACUTE ORAL TOXICITY)									According
Acute toxicity, by	LD50	>9400	mg/k	Rabbit	OECD 402	Analogous								to experience
dermal route:			g		(Acute Dermal Toxicity)	conclusion								available to date,
Acute toxicity, by inhalation:	LC50	0,368	mg/l/ 4h	Rat	OECD 403 (Acute Inhalation	Aerosol, Does not								polycarbam ide is inert
					Toxicity)	conform								and non-
						with EU classificatio								degradable
Acute toxicity, by						n.								
inhalation:	LC50	1.5	ma/l/			Aerosol.	12.3. Piococumulativo							n.d.a.
	LC50	1,5	mg/l/ 4h			Aerosol, Expert	Bioaccumulative potential:							
Skin	LC50	1,5		Rabbit	OECD 404	Expert judgement. Skin Irrit.	Bioaccumulative potential: 12.4. Mobility in soil:							n.d.a.
	LC50	1,5		Rabbit	OECD 404 (Acute Dermal Irritation/Corrosio	Expert judgement. Skin Irrit. 2,	Bioaccumulative potential: 12.4. Mobility in soil: 12.5. Results of							
Skin corrosion/irritation:	LC50	1,5			(Acute Dermal	Expert judgement. Skin Irrit. 2, Analogous conclusion	Bioaccumulative potential: 12.4. Mobility in soil: 12.5. Results of PBT and vPvB assessment							n.d.a. n.d.a.
Skin corrosion/irritation: Respiratory or skin sensitisation:	LC50	1,5		Guinea pig	(Acute Dermal Irritation/Corrosio n)	Expert judgement. Skin Irrit. 2, Analogous conclusion Yes (inhalation)	Bioaccumulative potential: 12.4. Mobility in soil: 12.5. Results of PBT and vPvB							n.d.a.
Skin corrosion/irritation: Respiratory or skin	LC50	1,5		Guinea	(Acute Dermal Irritation/Corrosio n) OECD 429 (Skin Sensitisation -	Expert judgement. Skin Irrit. 2, Analogous conclusion Yes	Bioaccumulative potential: 12.4. Mobility in soil: 12.5. Results of PBT and vPvB assessment 12.6. Endocrine disrupting properties:							n.d.a. n.d.a. Does not apply to mixtures.
Skin corrosion/irritation: Respiratory or skin sensitisation: Respiratory or skin	LC50	1,5		Guinea pig	(Acute Dermal Irritation/Corrosio n) OECD 429 (Skin Sensitisation - Local Lymph	Expert judgement. Skin Irrit. 2, Analogous conclusion Yes (inhalation) Skin Sens.	Bioaccumulative potential: 12.4. Mobility in soil: 12.5. Results of PBT and vPvB assessment 12.6. Endocrine disrupting							n.d.a. n.d.a. Does not apply to mixtures. No information
Skin corrosion/irritation: Respiratory or skin sensitisation: Respiratory or skin sensitisation: Germ cell	LC50	1,5		Guinea pig Mouse Salmonel	(Acute Dermal Irritation/Corrosio n) OECD 429 (Skin Sensitisation - Local Lymph Node Assay) OECD 471	Expert judgement. Skin Irrit. 2, Analogous conclusion Yes (inhalation) Skin Sens. 1 Negative,	Bioaccumulative potential: 12.4. Mobility in soil: 12.5. Results of PBT and VPvB assessment 12.6. Endocrine disrupting properties: 12.7. Other							n.d.a. n.d.a. Does not apply to mixtures. No
Skin corrosion/irritation: Respiratory or skin sensitisation: Respiratory or skin sensitisation:	LC50	1,5		Guinea pig Mouse	(Acute Dermal Irritation/Corrosio n) OECD 429 (Skin Sensitisation - Local Lymph Node Assay)	Expert judgement. Skin Irrit. 2, Analogous conclusion Yes (inhalation) Skin Sens. 1	Bioaccumulative potential: 12.4. Mobility in soil: 12.5. Results of PBT and VPvB assessment 12.6. Endocrine disrupting properties: 12.7. Other							n.d.a. n.d.a. Does not apply to mixtures. No information available on other adverse
Skin corrosion/irritation: Respiratory or skin sensitisation: Respiratory or skin sensitisation: Germ cell mutagenicity:	LC50	1,5		Guinea pig Mouse Salmonel Ia typhimuri um	(Acute Dermal Irritation/Corrosio n) OECD 429 (Skin Sensitisation - Local Lymph Node Assay) OECD 471 (Bacterial Reverse Mutation Test)	Expert judgement. Skin Irrit. 2, Analogous conclusion Yes (inhalation) Skin Sens. 1 Negative, Analogous conclusion	Bioaccumulative potential: 12.4. Mobility in soil: 12.5. Results of PBT and VPvB assessment 12.6. Endocrine disrupting properties: 12.7. Other							n.d.a. n.d.a. Does not apply to mixtures. No information available on other adverse effects on the
Skin corrosion/irritation: Respiratory or skin sensitisation: Respiratory or skin sensitisation: Germ cell		1,5		Guinea pig Mouse Salmonel la typhimuri	(Acute Dermal Irritation/Corrosio n) OECD 429 (Skin Sensitisation - Local Lymph Node Assay) OECD 471 (Bacterial Reverse Mutation Test) OECD 474 (Mammalian	Expert judgement. Skin Irrit. 2, Analogous conclusion Yes (inhalation) Skin Sens. 1 Negative, Analogous	Bioaccumulative potential: 12.4. Mobility in soil: 12.5. Results of PBT and VPvB assessment 12.6. Endocrine disrupting properties: 12.7. Other							n.d.a. n.d.a. Does not apply to mixtures. No information available on other adverse effects on
Skin corrosion/irritation: Respiratory or skin sensitisation: Respiratory or skin sensitisation: Germ cell Germ cell		1,5		Guinea pig Mouse Salmonel Ia typhimuri um	(Acute Dermal Irritation/Corrosio n) OECD 429 (Skin Sensitisation - Local Lymph Node Assay) OECD 471 (Bacterial Reverse Mutation Test) OECD 474 (Mammalian Erythrocyte	Expert judgement. Skin Irrit. 2, Analogous conclusion Yes (inhalation) Skin Sens. 1 Negative, Analogous conclusion Negativem	Bioaccumulative potential: 12.4. Mobility in soli: 12.5. Results of PBT and vPvB assessment 12.6. Endocrine disrupting properties: 12.7. Other adverse effects:							n.d.a. n.d.a. Does not apply to mixtures. No information available on other adverse effects on the
Skin corrosion/irritation: Respiratory or skin sensitisation: Respiratory or skin sensitisation: Germ cell mutagenicity: Germ cell mutagenicity:		1,5		Guinea pig Mouse Salmonel Ia typhimuri um Rat	(Acute Dermal Irritation/Corrosio n) OECD 429 (Skin Sensitisation - Local Lymph Node Assay) OECD 471 (Bacterial Reverse Mutation Test) OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Expert judgement. Skin Irrit. 2, Analogous conclusion Yes (inhalation) Skin Sens. 1 Negative, Analogous conclusion Negativem ale	Bioaccumulative potential: 12.4. Mobility in soil: 12.5. Results of PBT and VPvB assessment 12.6. Endocrine disrupting properties: 12.7. Other	diisocyanate, Endpoin	Tim	Valu	mologue: Unit	s Organism		n.d.a. n.d.a. Does not apply to mixtures. No information available on other adverse effects on the
Skin corrosion/irritation: Respiratory or skin sensitisation: Respiratory or skin sensitisation: Germ cell Germ cell		1,5		Guinea pig Mouse Salmonel Ia typhimuri um	(Acute Dermal Irritation/Corrosio n) OECD 429 (Skin Sensitisation - Local Lymph Node Assay) OECD 471 (Bacterial Reverse Mutation Test) OECD 474 (Marmalian Erythrocyte Micronucleus Test) OECD 489 (In Vivo Marmalian	Expert judgement. Skin Irrit. 2, Analogous conclusion Yes (inhalation) Skin Sens. 1 Negative, Analogous conclusion Negativem	Bioaccumulative potential: 12.4. Mobility in soil: 12.5. Results of PBT and vPvB assessment 12.6. Endocrine disrupting properties: 12.7. Other adverse effects: Diphenylmethanec Toxicity / effect	Endpoin t	Tim e	Valu e	Unit	Organism	method	n.d.a. n.d.a. Does not apply to mixtures. No information available on other adverse effects on the environmen t.
Skin corrosion/irritation: Respiratory or skin sensitisation: Respiratory or skin sensitisation: Germ cell mutagenicity: Germ cell mutagenicity:		1,5		Guinea pig Mouse Salmonel Ia typhimuri um Rat	(Acute Dermal Irritation/Corrosio n) OECD 429 (Skin Sensitisation - Local Lymph Node Assay) OECD 471 (Bacterial Reverse Mutation Test) OECD 474 (Mammalian Erythrocyte Micronucleus Test) OECD 489 (In Vivo Mammalian Aikaline Comet	Expert judgement. Skin Irrit. 2, Analogous conclusion Yes (inhalation) Skin Sens. 1 Negative, Analogous conclusion Negativem ale	Bioaccumulative potential: 12.4. Mobility in soil: 12.5. Results of PBT and vPvB assessment 12.6. Endocrine disrupting properties: 12.7. Other adverse effects: Diphenylmethaneot		Tim	Valu			io OECD 203 (Fish, Acute	n.d.a. n.d.a. Does not apply to mixtures. No information available on other adverse effects on the environmen t.
Skin corrosion/irritation: Respiratory or skin sensitisation: Respiratory or skin sensitisation: Germ cell mutagenicity: Germ cell mutagenicity:		1,5		Guinea pig Mouse Salmonel Ia typhimuri um Rat	(Acute Dermal Irritation/Corrosio n) OECD 429 (Skin Sensitisation - Local Lymph Node Assay) OECD 471 (Bacterial Reverse Mutation Test) OECD 474 (Mammalian Erythrocyte Micronucleus Test) OECD 489 (In Vivo Mammalian Alkaline Comet Assay) OECD 453	Expert judgement. Skin Irrit. 2, Analogous conclusion Yes (inhalation) Skin Sens. 1 Negative, Analogous conclusion Negativem ale Negativem ale	Bioaccumulative potential: 12.4. Mobility in soil: 12.5. Results of PBT and vPvB assessment 12.6. Endocrine disrupting properties: 12.7. Other adverse effects: Diphenylmethanec Toxicity / effect 12.1. Toxicity to	Endpoin t LC50	Tim e	<b>Valu</b> e >10	Unit	Organism Brachydani	io OECD 203	n.d.a. n.d.a. Does not apply to mixtures. No information available on other adverse effects on the environmen t.
Skin corrosion/irritation: Respiratory or skin sensitisation: Respiratory or skin sensitisation: Germ cell mutagenicity: Germ cell mutagenicity: Germ cell mutagenicity:		1,5		Guinea pig Mouse Salmonel la typhimuri um Rat Rat	(Acute Dermal Irritation/Corrosio n) OECD 429 (Skin Sensitisation - Local Lymph Node Assay) OECD 471 (Bacterial Reverse Mutation Test) OECD 471 (Mammalian Erythrocyte Micronucleus Test) OECD 489 (in Vivo Mammalian Alkaline Comet Assay) OECD 453 (Combined Chronic	Expert judgement. Skin Irrit. 2, Analogous conclusion Yes (inhalation) Skin Sens. 1 Negative, Analogous conclusion Negativem ale Aerosol, Analogous conclusion,	Bioaccumulative potential: 12.4. Mobility in soil: 12.5. Results of PBT and vPvB assessment 12.6. Endocrine disrupting properties: 12.7. Other adverse effects: Diphenylmethanec Toxicity / effect 12.1. Toxicity to	Endpoin t LC50 NOEC/N	Tim e	Valu e >10 00 >=1	Unit	Organism Brachydani rerio Daphnia	method           io         OECD 203           (Fish, Acute           Toxicity           Test)           OECD 211	n.d.a. n.d.a. Does not apply to mixtures. No information available on other adverse effects on the environmen t.
Skin corrosion/irritation: Respiratory or skin sensitisation: Respiratory or skin sensitisation: Germ cell mutagenicity: Germ cell mutagenicity: Germ cell mutagenicity:		1,5		Guinea pig Mouse Salmonel la typhimuri um Rat Rat	Acute Dermal Irritation/Corrosio n) OECD 429 (Skin Sensitisation - Local Lymph Node Assay) OECD 471 (Bacterial Reverse Mutation Test) OECD 474 (Mammalian Erythrocyte Micronucleus Test) OECD 489 (In Vivo Mammalian Aikaline Comet Assay) OECD 453 (Combined Chronic Toxicity/Carcinog	Expert judgement. Skin Irrit. 2, Analogous conclusion Yes (inhalation) Skin Sens. 1 Negative, Analogous Negativem ale Negativem ale	Bioaccumulative potential: 12.4. Mobility in soil: 12.5. Results of PBT and vPvB assessment 12.6. Endocrine disrupting properties: 12.7. Other adverse effects: <b>Diphenylmethanec</b> <b>Toxicity / effect</b> 12.1. Toxicity to fish:	Endpoin t LC50	<b>Tim</b> e 96h	Valu e >10 00	Unit mg/l	Organism Brachydani rerio	io OECD 203 (Fish, Acute Toxicity Test) OECD 211 (Daphnia magna	n.d.a. n.d.a. Does not apply to mixtures. No information available on other adverse effects on the environmen t.
Skin corrosion/irritation: Respiratory or skin sensitisation: Respiratory or skin sensitisation: Germ cell mutagenicity: Germ cell mutagenicity: Germ cell mutagenicity:	NOAE	4-12	4h	Guinea pig Mouse Salmonel la typhimuri um Rat Rat	(Acute Dermal Irritation/Corrosio n) OECD 429 (Skin Sensitisation - Local Lymph Node Assay) OECD 471 (Bacterial Reverse Mutation Test) OECD 474 (Mammalian Erythrocyte Micronucleus Test) OECD 489 (In Vivo Mammalian Aikaline Comet Assay) OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies) OECD 414	Expert judgement. Skin Irrit. 2, Analogous conclusion Yes (inhalation) Skin Sens. 1 Negative, Analogous conclusion Negativem ale Negativem ale Aerosol, Analogous conclusion, Carc. 2 Aerosol,	Bioaccumulative potential: 12.4. Mobility in soil: 12.5. Results of PBT and vPvB assessment 12.6. Endocrine disrupting properties: 12.7. Other adverse effects: Diphenylmethanec Toxicity / effect 12.1. Toxicity to	Endpoin t LC50 NOEC/N OEL	<b>Tim</b> <b>e</b> 96h 21d	Valu e >10 00 >=1	Unit mg/l	Organism Brachydani rerio Daphnia	method io OECD 203 (Fish, Acute Toxicity Test) OECD 211 (Daphnia magna Reproductio n Test)	n.d.a. n.d.a. Does not apply to mixtures. No information available on other adverse effects on the environmen t.
Skin corrosion/irritation: Respiratory or skin sensitisation: Respiratory or skin sensitisation: Germ cell mutagenicity: Germ cell mutagenicity: Germ cell mutagenicity: Carcinogenicity:			4h	Guinea pig Mouse Salmonel la typhimuri um Rat Rat Rat	(Acute Dermal Irritation/Corrosio n) OECD 429 (Skin Sensitisation - Local Lymph Node Assay) OECD 471 (Bacterial Reverse Mutation Test) OECD 471 (Marmalian Erythrocyte Micronucleus Test) OECD 474 (Marmalian Erythrocyte Micronucleus Test) OECD 489 (in Vivo Marmalian Alkaline Comet Assay) OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies) OECD 414 (Prenatal Developmental	Expert judgement. Skin Irrit. 2, Analogous conclusion Yes (inhalation) Skin Sens. 1 Negative, Analogous conclusion Negativem ale Aerosol, Analogous conclusion, Carc. 2	Bioaccumulative potential: 12.4. Mobility in soil: 12.5. Results of PBT and vPvB assessment 12.6. Endocrine disrupting properties: 12.7. Other adverse effects: <b>Diphenylmethanec</b> <b>Toxicity / effect</b> 12.1. Toxicity to daphnia: 12.1. Toxicity to	Endpoin t LC50 NOEC/N	<b>Tim</b> e 96h	Valu e >10 00 >=1 0 >10	Unit mg/l	Organism Brachydani rerio Daphnia magna Daphnia	method           io         OECD 203 (Fish, Acute Toxicity Test)           OECD 211 (Daphnia magna Reproductio n Test)         OECD 212	n.d.a. n.d.a. Does not apply to mixtures. No information available on other adverse effects on the environmen t.
Skin corrosion/irritation: Respiratory or skin Respiratory or skin sensitisation: Germ cell mutagenicity: Germ cell mutagenicity: Germ cell mutagenicity: Carcinogenicity: Reproductive toxicity:	NOAE	4-12	4h	Guinea pig Mouse Salmonel la typhimuri m Rat Rat Rat	Acute Dermal Irritation/Corrosio n) OECD 429 (Skin Sensitisation - Local Lymph Node Assay) OECD 471 (Bacterial Reverse Mutation Test) OECD 474 (Mammalian Erythrocyte Micronucleus Test) OECD 489 (In Vivo Mammalian Aikaline Comet Assay) OECD 453 (Combined Chronic Toxicity/Carcinog enicity/Studies) OECD 414 (Prenatal Developmental Toxicity Study)	Expert judgement. Skin Irrit. 2, Analogous conclusion Yes (inhalation) Skin Sens. 1 Negative, Analogous conclusion Negativem ale Aerosol, Analogous conclusion, Carc. 2 Aerosol, Analogous conclusion	Bioaccumulative potential: 12.4. Mobility in soil: 12.5. Results of PBT and vPvB assessment 12.6. Endocrine disrupting properties: 12.7. Other adverse effects: <b>Diphenylmethanec</b> <b>Toxicity / effect</b> 12.1. Toxicity to fish: 12.1. Toxicity to daphnia:	Endpoin t LC50 NOEC/N OEL	<b>Tim</b> <b>e</b> 96h 21d	Valu e >10 00 >=1 0	Unit mg/l mg/l	Organism Brachydani rerio Daphnia magna	method io OECD 203 (Fish, Acute Toxicity Test) OECD 211 (Daphnia magna Reproductio n Test) OECD 202 (Daphnia sp. Acute	n.d.a. n.d.a. Does not apply to mixtures. No information available on other adverse effects on the environmen t.
Skin corrosion/irritation: Respiratory or skin sensitisation: Respiratory or skin sensitisation: Germ cell mutagenicity: Germ cell mutagenicity: Carcinogenicity: Reproductive toxicity: Specific target organ toxicity - repeated	NOAE		4h	Guinea pig Mouse Salmonel la typhimuri um Rat Rat Rat	(Acute Dermal Irritation/Corrosio n) OECD 429 (Skin Sensitisation - Local Lymph Node Assay) OECD 471 (Bacterial Reverse Mutation Test) OECD 474 (Mammalian Erythrocyte Micronucleus Test) OECD 489 (In Vivo Mammalian Aikaline Comet Assay) OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies) OECD 414 (Prenatal Developmental Toxicity Study) OECD 414	Expert judgement. Skin Irrit. 2, Analogous conclusion Yes (inhalation) Skin Sens. 1 Negative, Analogous conclusion Negativem ale Negativem ale Aerosol, Analogous conclusion, Carc. 2 Aerosol, Analogous conclusion, Carc. 2	Bioaccumulative potential: 12.4. Mobility in soil: 12.5. Results of PBT and vPvB assessment 12.6. Endocrine disrupting properties: 12.7. Other adverse effects: Diphenylmethanec Toxicity / effect 12.1. Toxicity to daphnia: 12.1. Toxicity to	Endpoin t LC50 NOEC/N OEL	<b>Tim</b> <b>e</b> 96h 21d	Valu e >10 00 >=1 0 >10	Unit mg/l mg/l	Organism Brachydani rerio Daphnia magna Daphnia	method io OECD 203 (Fish, Acute Toxicity Test) OECD 211 (Daphnia magna Reproductio n Test) OECD 202 (Daphnia sp. Acute Immobilisati	n.d.a. n.d.a. Does not apply to mixtures. No information available on other adverse effects on the environmen t.
Skin corrosion/irritation: Respiratory or skin sensitisation: Respiratory or skin sensitisation: Germ cell mutagenicity: Germ cell mutagenicity: Carcinogenicity: Reproductive toxicity: Specific target organ	NOAE	4-12	4h	Guinea pig Mouse Salmonel la typhimuri m Rat Rat Rat	Acute Dermal Irritation/Corrosio n) OECD 429 (Skin Sensitisation - Local Lymph Node Assay) OECD 471 (Bacterial Reverse Mutation Test) OECD 474 (Mammalian Erythrocyte Micronucleus Test) OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies) OECD 414 (Prenatal Developmental Toxicity Study) OECD 453	Expert judgement. Skin Irrit. 2, Analogous conclusion Yes (inhalation) Skin Sens. 1 Negative, Analogous conclusion Negativem ale Aerosol, Analogous conclusion, Carc. 2 Aerosol, Analogous conclusion Aanalogous conclusion	Bioaccumulative potential: 12.4. Mobility in soil: 12.5. Results of PBT and vPvB assessment 12.6. Endocrine disrupting properties: 12.7. Other adverse effects: <b>Diphenylmethanec</b> <b>Toxicity / effect</b> 12.1. Toxicity to daphnia: 12.1. Toxicity to daphnia: 12.1. Toxicity to	Endpoin t LC50 NOEC/N OEL	<b>Tim</b> <b>e</b> 96h 21d	Valu e >10 00 >=1 0 >10 00 >10 00	Unit mg/l mg/l	Organism Brachydani rerio Daphnia magna Daphnia magna Scenedesn	method io OECD 203 (Fish, Acute Toxicity Test) OECD 211 (Daphnia sp. Acute Immobilisati on Test) Nettor	n.d.a. n.d.a. Does not apply to mixtures. No information available on other adverse effects on the environmen t.
Skin corrosion/irritation: Respiratory or skin sensitisation: Respiratory or skin sensitisation: Germ cell mutagenicity: Germ cell mutagenicity: Carcinogenicity: Reproductive toxicity: Specific target organ toxicity - repeated exposure (STOT-RE),	NOAE	4-12	4h	Guinea pig Mouse Salmonel la typhimuri m Rat Rat Rat	Acute Dermal Irritation/Corrosio n) OECD 429 (Skin Sensitisation - Local Lymph Node Assay) OECD 471 (Bacterial Reverse Mutation Test) OECD 471 (Mammalian Erythrocyte Micronucleus Test) OECD 489 (In Vivo Mammalian Aikaline Comet Assay) OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies) OECD 414 (Prenatal Developmental Toxicity Study) OECD 453 (Combined Chronic	Expert judgement. Skin Irrit. 2, Analogous conclusion Yes (inhalation) Skin Sens. 1 Negative, Analogous conclusion Negativem ale Negativem ale Aerosol, Analogous conclusion, Carc. 2 Aerosol, Analogous conclusion	Bioaccumulative potential: 12.4. Mobility in soil: 12.5. Results of PBT and vPvB assessment 12.6. Endocrine disrupting properties: 12.7. Other adverse effects: <b>Diphenylmethanec</b> <b>Toxicity / effect</b> 12.1. Toxicity to fish: 12.1. Toxicity to daphnia: 12.1. Toxicity to daphnia:	Endpoin t LC50 NOEC/N OEL EC50	<b>Tim</b> <b>e</b> 96h 21d 24h	Valu e >10 00 >=1 0 >10 00	Unit mg/l mg/l	Organism Brachydani rerio Daphnia magna Daphnia magna	method           io         OECD 203 (Fish, Acute Toxicity Test)           OECD 211 (Daphnia magna Reproductio n Test)           OECD 202 (Daphnia sp. Acute Immobilisati on Test)           n Test)           n OECD 201 (Alga,	n.d.a. n.d.a. Does not apply to mixtures. No information available on other adverse effects on the environmen t.



B) Page 6 of 8 Safety data sheet a Revision date / vers Replacing version o	sion: 01.11.20 dated / versior	21 / 0009	9		s, Annex II			12.1. Toxicity to fish:	LC50	96h	>10 00	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity Test)	
/alid from: 01.11.20 PDF print date: 01.7 COSMO® PU-160.7 COSMO® PU-160.7 COSMO® PU-160.7	11.2021 540 690							12.1. Toxicity to daphnia:	NOEC/N OEL	21d	>=1 0	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproductio n Test)	
COSMO® PU-160. 2.2. Persistence and degradability:	720	28d	0	%	activated sludge	OECD 302 C (Inherent Biodegradab ility - Modified	Not biodegrada ble, According to	12.2. Persistence and degradability:		28d	0	%	activated sludge	OECD 302 C (Inherent Biodegradab ility - Modified MITI Test (II))	
						MITI Test (II))	experience available to date, polycarbam ide is inert	12.3. Bioaccumulative potential:	BCF		200			OECD 305 (Bioconcentr ation - Flow- Through Fish Test)	Not to be expected
							and non- degradable ., With water at the interface, transforms slowly with formation of CO2	Toxicity to bacteria:	EC50	3h	>10 0	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	
							into a firm, insoluble	Propylene carbon					- ·	<b>-</b>	<b>NI</b> 4
							reaction product with a bigh	Toxicity / effect	Endpoin t	Tim e	Valu e	Unit	Organism	Test method	Notes
							with a high melting	12.1. Toxicity to fish:	LC50	96h	>10	mg/l	Cyprinus caprio	92/69/EC	
12.3.	BCF	42d	<14		Cyprinus	OECD 305 (Bioconcentr	point (polycarba mide). Not to be	12.1. Toxicity to daphnia:	EC50	48h	>10 00	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisati	
Bioaccumulative potential: 12.5. Results of					carpio	ation - Flow- Through Fish Test)	expected No vPvB	12.1. Toxicity to algae:	EC50	72h	>90 0	mg/l	Desmodesm us subspicatus	on Test) OECD 201 (Alga, Growth Inhibition	
PBT and vPvB assessment							substance, No PBT	12.2.			83,5	%		Test) OECD 301	Readily
Toxicity to bacteria:	EC50	3h	>10 0	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration	substance	Persistence and degradability:			-87- 7			B (Ready Biodegradab ility - Co2 Evolution Test)	biodegra ble29d
						Inhibition Test (Carbon and Ammonium Oxidation))		12.2. Persistence and degradability:	DOC	14d	90- 100	%		OECD 301 A (Ready Biodegradab ility - DOC Die-Away Test)	
Other organisms: Other organisms:	NOEC/N OEL NOEC/N	14d 14d	>10 00 >10	mg/k g mg/k	Avena sativa	OECD 208 (Terrestrial Plants, Growth Test) OECD 208		12.3. Bioaccumulative potential:	Log Pow		- 0,41				Bioaccur ation is unlikely (LogPow 1)., calculate
-	OEL		00	g	sativa	(Terrestrial Plants, Growth Test)		12.5. Results of PBT and vPvB assessment							value No PBT substanc No vPvB
Toxicity to annelids:	NOEC/N OEL	14d	>10 00	mg/k g	Lumbricus terrestris	OECD 207 (Earthworm, Acute Toxicity Tests)		Toxicity to bacteria: Other	EC10 AOX	16h	740 0 0	mg/l %	Pseudomon as putida	DIN 38412 T.8	substanc
Reaction mass of	4.4'-methyler	nediphen	vl diisoc	vanate an	d o-(p-isocvanat		isocvanate	information:							contain any organica
Toxicity / effect	Endpoin t	Tim e	Valu e	Unit	Organism	Test method	Notes								bound
12.1. Toxicity to fish:	LC50 NOEC/N	96h	> 100 0	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity Test) OECD 211									which car contribute to the AC value in
12.1. Toxicity to daphnia:	OEL	21d	>10	mg/l	Daphnia magna	(Daphnia magna									waste water.
						Reproductio n Test)		4,4'-methylenedip Toxicity / effect	henyl diisocy Endpoin	anate Tim	Valu	Unit	Organism	Test	Notes
12.1. Toxicity to daphnia:	EC50	24h	> 100 0	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisati		12.1. Toxicity to fish:	t LC50	<b>e</b> 96h	<b>e</b> >10 00	mg/l	Brachydanio rerio	method OECD 203 (Fish, Acute Toxicity	Analogou conclusio
12.2. Persistence and degradability:		28d	0	%	activated sludge	on Test) OECD 302 C (Inherent Biodegradab ility -		12.1. Toxicity to daphnia:	EC50	24h	>10 00	mg/l	Daphnia magna	Test) OECD 202 (Daphnia sp. Acute Immobilisati	Analogo conclusio
12.3.	BCF		200			Modified MITI Test (II))	Not to be	12.1. Toxicity to daphnia:	NOEC/N OEL	21d	>10	mg/l	Daphnia magna	on Test) OECD 211 (Daphnia magna	Analogou conclusio
Bioaccumulative potential: Toxicity to	EC50	3h	>10	mg/l	activated	OECD 209	expected	12.1. Toxicity to	ErC50	72h	>16	ma/!	Desmodesm	Reproductio n Test) OECD 201	Analaa
oacteria:	ECSU	30	0	mgn	sludge	(Activated Sludge, Respiration Inhibition Test (Carbon		algae:	ErC50	72n	>16 40	mg/l	Us subspicatus	(Alga, Growth Inhibition Test)	Analogoi conclusio
						and Ammonium Oxidation))									
Methylenedipheny	l diisocyana Endpoin	te, modif Tim	ied Valu	Unit	Organism	Test	Notes								
Toxicity / effect		e	e			method									



Replacing version Valid from: 01.11.2 PDF print date: 01. COSMO® PU-160. COSMO® PU-160. COSMO® PU-160.	021 11.2021 540 690 710	n: 02.08.2	2021 / 00	08			
12.2. Persistence and degradability:		28d	0	%		OECD 302 C (Inherent Biodegradab liity - Modified MITI Test (II))	Not biodeg ble, W water the slowly formata for
12.3. Bioaccumulative potential:	Log Pow		5,22				A nota biologi accum on potent has to expect (LogPo 3).
12.3. Bioaccumulative potential:	BCF	28d	200		Cyprinus caprio	IUCLID Chem. Data Sheet (ESIS)	Not to expect
12.4. Mobility in soil:	H (Henry)		0,02 29	Pa*m 3/mol		(2010)	
12.5. Results of PBT and vPvB assessment	(nony)		20	<u>o</u> mor			No PB substa No vP substa
Toxicity to bacteria:	EC50	3h	>10 0	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	Analog conclu
Other organisms:	NOEC/N OEL	14d	>10 00	mg/k g	Lactuca sativa	OECD 208 (Terrestrial Plants, Growth Test)	Analog conclu
Other organisms:	NOEC/N OEL	14d	>10 00	mg/k g	Avena sativa	OECD 208 (Terrestrial Plants, Growth Test)	Analog conclu
Other information:	AOX						Does i contain any organi bound haloge which contrib to the value i

Other information:							According to experience available to date, polycarbam 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 melting point (polycarba mide).
Toxicity to annelids:	NOEC/N OEL	14d	> 100 0	mg/k g	Lumbricus terrestris	OECD 207 (Earthworm, Acute Toxicity Tests)	Analogous conclusion
Toxicity to annelids:	EC50	14d	>10 00	mg/k g	Eisenia foetida	OECD 207 (Earthworm, Acute Toxicity Tests)	Analogous conclusion

# **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.

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 o, suitable isocians o long

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

E.g. unspose at suitable feruse 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

Transport by road/by rail (ADR/RID)			
14.1. UN number or ID number:	Not applicable		
14.2. UN proper shipping name:			
Not applicable			
14.3. Transport hazard class(es):	Not applicable		
14.4. Packing group:	Not applicable		
14.5. Environmental hazards:	Not applicable		
Tunnel restriction code:	Not applicable		
Classification code:	Not applicable		
LQ:	Not applicable		
Transport category:	Not applicable		
Transport by sea (IMDG-code)			
14.1. UN number or ID number:	Not applicable		
14.2. UN proper shipping name:			
Not applicable			
14.3. Transport hazard class(es):	Not applicable		
14.4. Packing group:	Not applicable		
14.5. Environmental hazards:	Not applicable		
Marine Pollutant:	Not applicable		
EmS:	Not applicable		
Transport by air (IATA)			
14.1. UN number or ID number:	Not applicable		
14.2. UN proper shipping name:			
Not applicable			
14.3. Transport hazard class(es):	Not applicable		
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 Regula

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 Diphenylmethanedilisocyanate, isomeres and homologues Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate Methylenediphenyl diisocyanate, modified 4,4'-methylenediphenyl diisocyanate Comply with national regulations/laws governing maternity protection (national implementation of the Directive 92/85/EEC)!

Comply with trade association/occupational health regulations.



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GB Page 8 of 8 Sofatu data about according to Degulation	
Safety data sheet according to Regulation	(EC) No 1907/2006, Annex II
Revision date / version: 01.11.2021 / 000	
Replacing version dated / version: 02.08.2	021 / 0008
Valid from: 01.11.2021	
PDF print date: 01.11.2021	
COSMO® PU-160.540	
COSMO® PU-160.690	
COSMO® PU-160.710	
COSMO® PU-160.720	
Regulation (EU) No 649/2012 'concerning as the product contains a substance that f	the export and import of hazardous chemicals' must be adhered to alls within the scope of this Regulation.
Directive 2010/75/EU (VOC):	3,96 g/l
Directive 2010/75/EU (VOC):	0,36 %
National requirements/regulations on safe equipment.	y and health protection must be applied when using work
15.2 Chemical safety assessme	ent
A chemical safety assessment is not provi	ded for mixtures.
SECTIO	N 16: Other information
Revised sections:	1-16
These details refer to the product as it is d	elivered.
Employee instruction/training in handling h	azardous 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
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).

All the Consultation (specified in Declarol 2 and 5). H373 May cause damage to organs through prolonged or repeated exposure by inhalation. H315 Causes skin irritation. H317 May cause an allergic skin reaction. 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. H351 Suspected of causing cancer.

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 STOT RE — Specific target organ toxicity - repeated exposure 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). Safety data sheets for the constituent substances.

ECHA Homepage - Information about chemicals. 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 Art., Art. no.Article number ASTM ASTM International (American Society for Testing and Materials)

Acute Toxicity Estimate Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and ATE BAM

Testing, Germany) BAuA Bundesans and Safety, Germany) BCF Bioconcen Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health Bioconcentration factor

BSEF The International Bromine Council

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 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.q.	for example (abbreviation of Latin 'exempli gratia'), for instance	
EbCx, EyC:	x, EbLx (x = 10, 50) Effect Concentration/Level of x % on reduction of the biomass	
(algae, plar	(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)	
	c, ErLx (x = 10, 50) Effect Concentration/Level of x % on inhibition of the growth rate	
(algae, plar 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	
	International Bulk Chemical (Code)	
	International Maritime Code for Dangerous Goods	
incl.	including, inclusive	
IUCLID IUPAC	International Uniform Chemical Information Database 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, L		
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 EL No Observed Effect Concentration/Level	
NOEC, NO 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 (=	
	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	

UN RTDG United Nations Recommendations on the Transport of Dangerous Goods

VOC vPvB Volatile organic compounds 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 h

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