

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 29.07.2021 / 0012

Revision date / version: 23.07.2021 / 0012 Replacing version dated / version: 15.02.2021 / 0011 Valid from: 29.07.2021 PDF print date: 30.07.2021 COSMO PU-100.130

COSMO PU-100.131 COSMO PU-100.132 COSMO PU-100.140

(COSMOPUR 819 schwarz) (COSMOPUR 819 grau) (COSMOPUR 819 C)

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-100.130 COSMO PU-100.131 COSMO PU-100.132 **COSMO PU-100.140**

(COSMOPUR 819) (COSMOPUR 819 schwarz) (COSMOPUR 819 grau) (COSMOPUR 819 C)

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the substance or mixture:

Uses advised against:

1.3 Details of the supplier of the safety data sheet

Weiss Chemie + Technik GmbH & Co. KG Hansastrasse 2 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)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Hazard class Hazard category Hazard statement Eye Irrit. H319-Causes serious eye irritation. STOT SE H335-May cause respiratory irritation. Skin Irrit. H315-Causes skin irritation. H334-May cause allergy or asthma symptoms or breathing difficulties if inhaled. Resp. Sens. Skin Sens. 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)





Danger

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 protective gloves / protective clothing / eye protection / face protection. P284-Wear respiratory protection.

P302+P352-IF ON SKIN: Wash with plenty of water / soap. P304+P340-IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338-IF IN EYES: Rinse 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.

EUH211-Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

As from 24 August 2023 adequate training is required before industrial or professional use. 4,4'-methylenediphenyl diisocyanate 2,2'-methylenediphenyl diisocyanate o-(p-isocyanatobenzyl)phenyl isocyanate

Diphenylmethanediisocyanate, isomeres and homologues

2.3 Other hazards

2.3 UTHER NAZARGSThe mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

SECTION 3: Composition/information on ingredients

3.1 Substances

n.a. 3.2 Mixtures

	OLE MIXEURO	
	Propylene carbonate	
	Registration number (REACH)	01-2119537232-48-XXXX
	Index	607-194-00-1
	EINECS, ELINCS, NLP, REACH-IT List-No.	203-572-1
Г	CAS	108-32-7
	content %	1-<10
	Classification according to Regulation (EC) 1272/2008	Eye Irrit. 2, H319
	(CLP), M-factors	

4,4'-methylenediphenyl diisocyanate	
Registration number (REACH)	01-2119457014-47-XXXX
Index	615-005-00-9
EINECS, ELINCS, NLP, REACH-IT List-No.	202-966-0
CAS	101-68-8
content %	1-<10
Classification 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)

o-(p-isocyanatobenzyl)phenyl isocyanate	
Registration number (REACH)	01-2119480143-45-XXXX
Index	615-005-00-9
EINECS, ELINCS, NLP, REACH-IT List-No.	227-534-9
CAS	5873-54-1
content %	1-<10
Classification 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)

Diphenylmethanediisocyanate, isomeres and	
homologues	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	
CAS	9016-87-9
content %	1-<10
Classification 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)

Titanium dioxide (in powder form containing 1 % or more of particles with aerodynamic diameter <= 10 μm)	
Registration number (REACH)	01-2119489379-17-XXXX
Index	022-006-002
EINECS, ELINCS, NLP, REACH-IT List-No.	236-675-5
CAS	13463-67-7
content %	<5
Classification according to Regulation (EC) 1272/2008	Carc. 2, H351 (as inhalation)
(CLP), M-factors	

(CLP), M-factors	
	·
2,2'-methylenediphenyl diisocyanate	
Registration number (REACH)	01-2119927323-43-XXXX
Index	615-005-00-9
EINECS, ELINCS, NLP, REACH-IT List-No.	219-799-4
CAS	2536-05-2
content %	0,1-<1
Classification 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

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16. The substances named in this section are given with their actual, appropriate classification!

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



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SECTION 4: First aid measures

4.1 Description of first aid measures

First-aiders should ensure they are protected! Never pour anything into the mouth of an unconscious person!

Inhalation

Remove person from danger area.
Supply person with fresh air and consult doctor according to symptoms.
If the person is unconscious, place in a stable side position and consult a doctor.

Respiratory arrest - Artificial respiration apparatus necessary.

Skin contact

Wipe off residual product carefully with a soft, dry cloth.

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

Dab away with polyethylene glycol 400

Eve contact

Remove contact lenses.
Wash thoroughly for several minutes using copious water - call doctor immediately, have Data Sheet available.

Ingestion

Rinse the mouth thoroughly with water.

Do not induce vomiting - give copious water to drink. Consult doctor immediately

4.2 Most important symptoms and effects, both acute and delayed

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1. The following may occur:

Dermatitis (skin inflammation)

Drying of the skin.

Allergic contact eczema
Discoloration of the skin
Irritant to mucosa of the nose and throat

Coughing Headaches

Effect on the central nervous system Asthmatic symptoms

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

Respiratory distress In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours

4.3 Indication of any immediate medical attention and special treatment needed

In case of irritation of the lungs, perform first-aid with controlled-dosage aerosol dexamethasone Pulmonary oedema prophylaxis Medical supervision necessary due to possibility of delayed reaction.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

CO2 Extinction powder

Water jet spray

Unsuitable extinguishing media

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:
Oxides of carbon
Oxides of nitrogen

Isocvanates

Hydrocyanic acid (hydrogen cyanide)

of bursting (explosion) when heated

5.3 Advice for firefighters
In case of fire and/or explosion do not breathe fumes.
Protective respirator with independent air supply.

According to size of fire

Full protection, if necessary Cool container at risk with water

Dispose of contaminated extinction water according to official regulations

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure sufficient supply of air.
Avoid inhalation, and contact with eyes or skin. If applicable, caution - risk of slipping.

6.2 Environmental precautions

The leakage occurs, dam up.
Resolve leaks if this possible without risk.
Prevent surface and ground-water infiltration, as well as ground penetration.

Prevent from entering drainage system.

If accidental entry into drainage system occurs, inform responsible authorities

6.3 Methods and material for containment and cleaning up

ous earth, sawdust) and

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous ed dispose of according to Section 13. Allow to stand for a few days in an unclosed container until reaction no longer occurs. Keep moist.

Do not close packing drum.

CO2 formation in closed tanks causes pressure to rise.

6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

SECTION 7: Handling and storage

addition to information given in this section, relevant information can also be found in section 8 and 6.1.

7.1 Precautions for safe handling

7.1.1 General recommendations

Ensure good ventilation.
Avoid inhalation of the vapours.
If applicable, suction measures at the workstation or on the processing machine necessary.

If applicable, suction measures at the workstation or on the processing machine necessary. Avoid contact with eyes or skin. No contact with products of this type in case of allergies, asthma und chronic respiratory tract disorders. Eating, drinking, smoking, as well as food-storage, is prohibited in work-room. Observe directions on label and instructions for use. Use working methods according to operating instructions.

7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

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

7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals.

Not to be stored in gangways or stair wells.

Store product closed and only in original packing.

Keep protected from direct sunlight and temperatures over 50°C.

Only store at temperatures from to . Store in a dry place.

7.3 Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

WEL-TWA: 0,02 mg/m3 (Isocyanates

(GB) Chemica	al Name	4,4'-methylenediphenyl diisocyanate			Content	
						%:1-<10
WEL-TWA: 0	,02 mg/m3 (Iso	cyanates,	WEL-STEL: 0,07 mg/i	m3 (Isocyanates,		
all (as -NCO))			all (as -NCO))			
Monitoring prod	cedures:		ISO 16702 (Workplace air			
			isocyanate groups in air u		henylpiper	azine and
		-	liquid chromatography) - 2			
			MDHS 25/4 (Organic isoc	yanates in air – Lab	oratory me	thod using
			sampling either onto 2-(1-	methoxyphenylpipe	razine coa	ted glass
			fibre filters followed by sol			
			analysis using high perform	mance liquid chrom	atography)	- 2015 -
	 EU project BC/CEN/ENTR/000/2002-16 card 7-4 (2004) 					
- NIOSH 5521 (ISOCYAN			NIOSH 5521 (ISOCYANA	TES, MONOMERIC) - 1994	
		-	NIOSH 5522 (ISOCYANA			
		-	NIOSH 5525 (ISOCYANA	TES, TOTAL (MAP))) - 2003	
		-	OSHA 18 (Diisocyanates 2	2,4-TDI and MDI) -	1980	
 OSHA 47 (Methylene Bisphenyl Isocyanate (MDI)) - 1984 					4	
BMGV: 1 µm	ol isocyanate-d	erived diamii	ne/mol creatinine in urine	Other information	n: Sen	
(At the end of the	(At the end of the period of exposure) (Isocyanates, all (as -NCO)))	
			·			
GB Chemica	al Name	o-(p-isocy	anatobenzyl)phenyl isocya	nate		Content
_						%·110

WEL-STEL: 0,07 mg/m3 (Isocyanates

Other information: (Isocyanates, all (as -NCO))

(At the end of the period of exposure)			(Isocyanates, all	(as -NCO)	
GB Chemical Name Diphenylmethanediisocyanate, isomeres and homologues			es	Content	
			ŭ		%:1-<10
WEL-TWA: 0,02 mg/m3 (Iso	cvanates	WEL-STEL: 0,07 mg/r	m3 (Isocyanates		
all (as -NCO))	oyanatoo,	all (as -NCO))	no (roco) anatos,		
Monitoring procedures:		an (as 1400))			
			0.1	_	
BMGV: 1 µmol isocyanate-d		ne/mol creatinine in urine	Other information		
(At the end of the period of ex	posure)		(Isocyanates, all	(as -NCO))
			•	-	
(GB) Chemical Name	Titanium o	dioxide (in powder form con	taining 1 % or more	of	Content
	particles v	vith aerodynamic diameter	<= 10 µm)		%:<5
WEL-TWA: 10 mg/m3 (total	inhalable	WEL-STEL:	,		
dust), 4 mg/m3 (respirable dust					
Monitoring procedures:	,				
BMGV:			Other information	n:	
(GB) Chemical Name	2.2'-methy	lenediphenyl diisocyanate			Content
©		, ,			%:0.1-
					<1
11/51 71/1 0.00 / 0.//		14/51 OT51 0 07 /	0.0		< i
WEL-TWA: 0,02 mg/m3 (Iso	cyanates,	WEL-STEL: 0,07 mg/r	n3 (Isocyanates,		
all (as -NCO))		all (as -NCO))		1	

Monitoring procedures: --BMGV: 1 µmol isocyanate-derived diamine/mol creatinine in urine Other information:

Monitoring procedures: --BMGV: 1 µmol isocyanate-derived diamine/mol creatinine in urine

(At the end of the period of exposure)

GB) C	hemical Name	4,4'-meth	ylenediphenyl diisocyar	nate		Content
<u> </u>						%:
WEL-TV	VA: 0,02 mg/m3 (Iso	ocyanates,	WEL-STEL: 0,07	mg/m3 (Isocyanates,		
all (as -N	ICO))		all (as -NCO))			
Monitori	ng procedures:		ISO 16702 (Workplac	e air quality – determina	tion of tota	al
			isocyanate groups in a	air using 2-(1-methoxypl	nenylpiper	azine and
		-	liquid chromatography	r) - 2007		
			MDHS 25/4 (Organic i	isocyanates in air - Lab	oratory me	thod using
			sampling either onto 2	2-(1-methoxyphenylpipe	razine coa	ted glass
			fibre filters followed by	solvent desorption or in	nto impina	ers and
				erformance liquid chrom		
		_		NTR/000/2002-16 card		
		_		ANATES, MONOMERIC		
		_	NIOSH 5522 (ISOCYA		,	
		-		ANATES, TOTAL (MAP)) - 2003	
		_		tes 2,4-TDI and MDI) -		
		_		Bisphenyl Isocyanate (M		4
BMGV:	1 umol isocvanate-o	derived diami	ne/mol creatinine in urir			
	nd of the period of ex			(Isocyanates, all)
(с. п.е релесе с. с.			(1000) an iantes, an	(
(B) C	hemical Name	Silica, am	orphous			Content
			•			0/0.

							%:
WE	L-TWA: 6 mg/m3 (total ii	nh. dust),	WEL-STEL:				
2,4	mg/m3 (resp. dust)						
Mor	nitoring procedures:						
BM	GV:				Other information	1:	
(GB)	Chemical Name	o-(p-isocy	anatobenzyl)phe	nyl isocyar	nate		Conte
\sim							%:
\A/E	1 TM/A · 0.02 mα/m2 /loc	ovenetee	WEI STELL	0.07 ma/s	m2 (Iconyonator		

Monitoring procedures: BMGV: 1 µmol isocyanate-derived diamine/mol creatinine in urine Other information: Sen					
	(At the end of the period of ex	(Isocyanates, all (as -NCO))		
	GB Chemical Name	Calcium carbonate		Content	



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WEL-TWA: 4 mg/m3 (respirable dust), 10 mg/m3 (total inhalable dust) Monitoring procedures: BMGV: ---WEL-STEL: ---Other information: ---

(GB)	Chemical Name	Diphenylm	nethanediisocyanate, isome	eres and homologue	es	Content
9						%:
WEL-TWA: 0,02 mg/m3 (Isocyanates,			WEL-STEL: 0,07 mg/m3 (Isocyanates,			
all (as -NCO))			all (as -NCO))			
	Monitoring procedures:					
BMGV: 1 µmol isocyanate-derived diamine/mol creatinine in urine			Other information	n: Sen		
(At the end of the period of exposure)				(Isocyanates, all	(as -NCO))

Propylene carbonate Area of application	Exposure route /	Effect on	Descri	Valu	Unit	Note
	Environmental compartment	health	ptor	е		
	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 /	Human - inhalation	Long term,	DNEL	70,5	mg/kg	
employees		systemic effects		3		
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 compartment	health	ptor	е		
	Environment -		PNEC	1	mg/l	
	freshwater		FINEC	'	IIIg/I	
	Environment -		PNEC	0.1	mg/l	
	marine		TIVEC	0,1	mg/i	
	Environment -		PNEC	1	mg/l	
	sewage treatment			•	9/-	
	plant					
	Environment - soil		PNEC	1	mg/kg	
					dw	
	Environment -		PNEC	10	mg/l	
	sporadic				ŭ	
	(intermittent) release					
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	BNE	0.05	, ,	
Consumer	Human - inhalation	Short term,	DNEL	0,05	mg/m3	
0	I been and the best attention	systemic effects	DNEL	0.00		
Consumer	Human - inhalation	Long term,	DNEL	0,02	mg/m3	
Consumer	Human - inhalation	local effects Long term.	DNEL	5 0.02	mg/m3	
Consumer	numan - innaiation	systemic effects	DINEL	5	mg/ms	
Workers /	Human - dermal	Short term.	DNEL	28,7	mg/cm	
employees	riuman - deimai	local effects	DIVLL	20,1	2	
Workers /	Human - dermal	Short term.	DNEL	50	ma/ka	
employees	Trainan delilia	systemic effects	DIVLL	55	bw/dav	
Workers /	Human - inhalation	Short term.	DNEL	0.1	mg/m3	
employees		local effects	2	٠,٠	g,5	
Workers /	Human - inhalation	Short term.	DNEL	0.1	ma/m3	
employees		systemic effects		-,.		
Workers /	Human - inhalation	Long term,	DNEL	0,05	mg/m3	
employees		local effects		'	ŭ .	
Workers /	Human - inhalation	Long term,	DNEL	0,05	mg/m3	
employees		systemic effects			-	

ſ	o-(p-isocyanatobenzyl)phenyl isocyanate									
	Area of application	Exposure route / Environmental compartment	Effect on health	Descri ptor	Valu e	Unit	Note			
		Environment - freshwater		PNEC	1	mg/l				

	Environment - marine		PNEC	0,1	mg/l	
	Environment - sewage treatment		PNEC	1	mg/l	
	Environment - soil		PNEC	1	mg/kg dw	
	Environment - sporadic (intermittent) release		PNEC	10	mg/l	
Consumer	Human - oral	Short term, systemic effects	DNEL	20	mg/kg bw/day	
Consumer	Human - dermal	Short term, local effects	DNEL	17,2	mg/cm 2	
Consumer	Human - dermal	Short term, systemic effects	DNEL	25	mg/kg bw/d	
Consumer	Human - inhalation	Short term, local effects	DNEL	0,05	mg/m3	
Consumer	Human - inhalation	Short term, systemic effects	DNEL	0,05	mg/m3	
Consumer	Human - inhalation	Long term, local effects	DNEL	0,02 5	mg/m3	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	0,02 5	mg/m3	
Workers / employees	Human - dermal	Short term, systemic effects	DNEL	50	mg/kg bw/d	
Workers / employees	Human - dermal	Short term, local effects	DNEL	28,7	mg/cm 2	
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	0,1	mg/m3	
Workers / employees	Human - inhalation	Short term, local effects	DNEL	0,1	mg/m3	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	0,05	mg/m3	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	0,05	mg/m3	

μm)	powder form containing	•				
Area of application	Exposure route / Environmental compartment	Effect on health	Descri ptor	Valu e	Unit	Note
	Environment - freshwater		PNEC	0,18 4	mg/l	
	Environment - marine		PNEC	0,01 84	mg/l	
	Environment - water, sporadic (intermittent) release		PNEC	0,19 3	mg/l	
	Environment - sewage treatment plant		PNEC	100	mg/l	
	Environment - sediment, freshwater		PNEC	100 0	mg/kg dw	
	Environment - sediment, marine		PNEC	100	mg/kg dw	
	Environment - soil		PNEC	100	mg/kg dw	
	Environment - oral (animal feed)		PNEC	166 7	mg/kg feed	
Consumer	Human - oral	Long term, systemic effects	DNEL	700	mg/kg bw/d	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	10	mg/m3	

Area of application	Exposure route /	Effect on	Descri	Valu	Unit	Note
	Environmental	health	ptor	е		
	compartment					
	Environment -		PNEC	1	mg/l	
	freshwater					
	Environment -		PNEC	0,1	mg/l	
	marine					
	Environment -		PNEC	1	mg/l	
	sewage treatment					
	plant					
	Environment - soil		PNEC	1	mg/kg	
					dw	
	Environment -		PNEC	10	mg/l	
	water, sporadic					
	(intermittent) release					
Consumer	Human - oral	Short term,	DNEL	20	mg/kg	
0	Human - dermal	systemic effects	DNFL	17.2	bw/d	
Consumer	Human - dermal	Short term, local effects	DNEL	17,2	mg/cm	
•			DNEL	0.5	2	
Consumer	Human - dermal	Short term,	DNEL	25	mg/kg	
Consumer	Human - inhalation	systemic effects Short term.	DNEL	0,05	bw/d	
Consumer	numan - innaiation		DINEL	0,05	mg/m3	
Consumer	Human - inhalation	systemic effects Short term.	DNEL	0.05	mg/m3	
Consumer	numan - innaiation	local effects	DINEL	0,05	mg/ms	
Consumer	Human - inhalation	Long term,	DNEL	0,02	mg/m3	
Consumer	Human - imiaiation	systemic effects	DINEL	5	mg/ms	
Consumer	Human - inhalation	Long term.	DNEL	0.02	mg/m3	
Consumer	Tidilian - ililialation	local effects	DIVLL	5	mg/ms	
Workers /	Human - dermal	Short term.	DNEL	28.7	mg/cm	
employees	delilidi	local effects	J.,LL	20,7	2	
Workers /	Human - dermal	Short term.	DNEL	50	ma/ka	
employees		systemic effects	J.,		bw/d	
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		-,-	3	
Workers /	Human - inhalation	Long term.	DNEL	0.05	mg/m3	
employees		systemic effects		.,	5	
Workers /	Human - inhalation	Long term,	DNEL	0,05	mg/m3	
employees		local effects				

4,4'-methylenediphenyl diisocyanate									
Area of application	Exposure route / Environmental compartment	Environmental health r				Note			
	Environment - freshwater		PNEC	1	mg/l				



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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 29.07.2021 / 0012

Revision date / version: 23.07.2021 / 0012 Replacing version dated / version: 15.02.2021 / 0011 Valid from: 29.07.2021 PDF print date: 30.07.2021 COSMO PU-100.130 COSMO PU-100.131 COSMO PU-100.132 COSMO PU-100.140

(COSMOPUR 819 schwarz) (COSMOPUR 819 grau) (COSMOPUR 819 C)

	Environment - marine		PNEC	0,1	mg/l	
	Environment - soil		PNEC	1	mg/kg dw	
	Environment - sewage treatment plant		PNEC	1	mg/l	
	Environment - water, sporadic (intermittent) release		PNEC	10	mg/l	
Consumer	Human - dermal	Short term, systemic effects	DNEL	25	mg/kg bw/d	
Consumer	Human - inhalation	Short term, systemic effects	DNEL	0,05	mg/m3	
Consumer	Human - oral	Short term, systemic effects	DNEL	20	mg/kg bw/d	
Consumer	Human - dermal	Short term, local effects	DNEL	17,2	mg/cm 2	
Consumer	Human - inhalation	Short term, local effects	DNEL	0,05	mg/m3	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	0,02 5	mg/m3	
Consumer	Human - inhalation	Long term, local effects	DNEL	0,02 5	mg/m3	
Workers / employees	Human - dermal	Short term, systemic effects	DNEL	50	mg/kg bw/d	
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	0,1	mg/m3	
Workers / employees	Human - dermal	Short term, local effects	DNEL	28,7	mg/cm 2	
Workers / employees	Human - inhalation	Short term, local effects	DNEL	0,1	mg/m3	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	0,05	mg/m3	·
Workers / employees	Human - inhalation	Long term, local effects	DNEL	0,05	mg/m3	

Area of application	Exposure route / Environmental	Effect on health	Descri ptor	Valu e	Unit	Note
	compartment	licaitii	ptoi	-		
	Environment -		PNEC	1	mg/l	
	freshwater		11120	'	mg/i	
	Environment -		PNEC	0.1	mg/l	
	marine			0,1	9/.	
	Environment - soil		PNEC	1	mg/kg	
					dry	
					weight	
	Environment -		PNEC	1	mg/l	
	sewage treatment					
	plant					
Consumer	Human - dermal	Short term,	DNEL	25	mg/kg	
		systemic effects			body	
					weight/	
					day	
Consumer	Human - inhalation	Short term,	DNEL	0,05	mg/m3	
		systemic effects				
Consumer	Human - oral	Short term,	DNEL	20	mg/kg	
		systemic effects			body	
					weight/	
					day	
Consumer	Human - dermal	Short term,	DNEL	17,2	mg/cm	
_		local effects			2	
Consumer	Human - inhalation	Long term,	DNEL	0,02	mg/m3	
_		systemic effects	D. I.E.	5		
Consumer	Human - inhalation	Long term,	DNEL	0,02	mg/m3	
Workers /	Human - dermal	local effects	DNEL	5 50		
	Human - dermai	Short term,	DNEL	50	mg/kg	
employees Workers /	Human - inhalation	systemic effects Short term.	DNEL	0.1	bw/day mg/m3	
employees	numan - innaiation	systemic effects	DINEL	0,1	mg/ms	
Workers /	Human - dermal	Short term.	DNEL	28.7	mg/cm	
	numan - demia	local effects	DINEL	20,1	2	
employees Workers /	Human - inhalation	Short term.	DNEL	0,1	mg/m3	
employees	numan - innaiation	local effects	DINEL	0,1	mg/ms	
Workers /	Human - inhalation	Long term,	DNEL	0.05	mg/m3	
employees	i iuman - iiiialalion	systemic effects	DIVEL	0,05	mg/ms	
Workers /	Human - inhalation	Long term,	DNEL	0.05	mg/m3	
employees		local effects	DINLL	0,00	/ilg/illo	

Diphenylmethanediisocyanate, isomeres and homologues								
Diphenylmethanediis	ocyanate, isomeres and	d homologues						
Area of application	Exposure route /	Effect on	Descri	Valu	Unit	Note		
	Environmental	health	ptor	e				
	compartment		•					
	Environment -		PNEC	1	mg/l			
	freshwater							
	Environment -		PNEC	0,1	mg/l			
	marine				_			
	Environment -		PNEC	10	mg/l			
	water, sporadic				_			
	(intermittent) release							
	Environment -		PNEC	1	mg/l			
	sewage treatment				"			
	plant							
	Environment - soil		PNEC	1	mg/kg			
Consumer	Human - oral	Short term,	DNEL	20	mg/kg			
		local effects			bw/d			
Consumer	Human - inhalation	Short term,	DNEL	0,05	mg/m3			
		local effects						

	1 11 11 11	01	51151	0.05	/ 0	
Consumer	Human - inhalation	Short term, systemic effects	DNEL	0,05	mg/m3	
Consumer	Human - inhalation	Long term,	DNEL	0.02	mg/m3	_
Consumer	Human - imalation	local effects	DINEL	5	IIIg/III3	
Consumer	Human - inhalation	Long term,	DNEL	0.02	mg/m3	_
Consumer	Human - imalation	systemic effects	DIVEL	5	IIIg/III3	
Consumer	Human - dermal	Short term,	DNEL	17.2	mg/cm	_
Consumer	ridilian - deliliai	local effects	DIVLL	17,2	2	
Consumer	Human - dermal		DNEL	25	_	
Consumer	Human - dermai	Short term,	DINEL	25	mg/kg	
		systemic effects			bw/d	_
Workers /	Human - inhalation	Short term,	DNEL	0,1	mg/m3	
employees		local effects				
Workers /	Human - inhalation	Short term,	DNEL	0,1	mg/m3	Τ
employees		systemic effects				
Workers /	Human - inhalation	Long term,	DNEL	0.05	mg/m3	_
emplovees		local effects		-,		
Workers /	Human - inhalation	Long term,	DNEL	0.05	mg/m3	_
employees		systemic effects		-,		
Workers /	Human - dermal	Short term,	DNFL	28.7	mg/cm	-
employees	Transari donnar	local effects	5.122		2	
Workers /	Human - dermal	Short term.	DNEL	50	mg/kg	-
employees	i idilian - deliliai		DIVEL	50	bw/d	
employees		systemic effects			DW/U	

(Directive 2004/37/CE). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period).

reterence period).

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

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

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

8.2 Exposure controls

8.2.1 Appropriate engineering controls

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

Applies only if maximum permissible exposure values are listed here.

Suitable assessment methods for reviewing the effectiveness of protection measures adopted include

metrological and non-metrological investigative techniques.

These are specified by e.g. EN 14042.

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

8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

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

Eve/face protection:

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

Skin protection - Hand protection:

Chemical resistant protective gloves (EN 374).

Recommended

Protective nitrile gloves (EN 374). Minimum layer thickness in mm:

>= 0,35
Permeation time (penetration time) in minutes:

>> 480
The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions

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

Skin protection - Other:

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

Respiratory protection:
Normally not necessary.
If OES or MEL is exceeded.
Filter A2 P2 (EN 14387), code colour brown, white
Observe wearing time limitations for respiratory protection equipment.

Thermal hazards Not applicable

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

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.

Selection of materials derived from glove manufacturer's indications

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into $\tilde{\text{account}}$. Selection of a suitable glove depends not only on the material but also on other quality characteristics and

varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested

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

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties Pastelike, Liquid Colour: Odour: Odour threshold: According to specification Characteristic Not determined pH-value: Melting point/freezing point: Initial boiling point and boiling range: Flash point: Not determined Not determined Not determined Evaporation rate: Flammability (solid, gas): n.a.



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Revision date/ version: 29.07.2021 / 0012
Replacing version dated / version: 15.02.2021 / 0011
Valid from: 29.07.2021
PDF print date: 30.07.2021
COSMO PU-100.130
COSMO PU-100.131 COSMO PU-100.131 COSMO PU-100.132 COSMO PU-100.140

(COSMOPUR 819) (COSMOPUR 819 schwarz) (COSMOPUR 819 grau) (COSMOPUR 819 C)

Lower explosive limit: Not determined Upper explosive limit: Not determined Not determined Upper explosive limit:
Vapour pressure:
Vapour density (air = 1):
Density:
Bulk density:
Solubility(ies):
Water solubility:
Partition coefficient (n-octanol/water):
Auto-ignition temperature:
Decomposition temperature:
Viscosity:
Explosive properties:
Oxidising properties: Not determined ~1,52 g/cm3 (20°C) n.a. Not determined Insoluble Not determined Not determined Not determined Not determined Not determined Product is not explosive.

Oxidising properties: 9.2 Other information

Not determined Miscibility: Fat solubility / solvent: Not determined Not determined Not determined Not determined Conductivity: Surface tension: Solvents content:

SECTION 10: Stability and reactivity

No

10.1 Reactivity

reacts with water

10.2 Chemical stability

Stable with proper storage and handling. 10.3 Possibility of hazardous reactions

Exothermic reaction possible with: Alcohols Amines Bases

Water Developement of:

Acids

Carbon dioxide
CO2 formation in closed tanks causes pressure to rise.
Pressure increase will result in danger of bursting.

10.4 Conditions to avoid

Protect from humidity. Polymerisation due to high heat is possible. $T > \sim 260^{\circ}C$

10.5 Incompatible materials

Acids Bases Amines Alcohols Water

10.6 Hazardous decomposition productsNo decomposition when used as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects
Possibly more information on health effects, see Section 2.1 (classification).
COSMO PU-100.130
COSMO PU-100.131
COSMO PU-100.132
COSMO PU-100.140

(COSMOPUR 819) (COSMOPUR 819 schwarz) (COSMOPUR 819 grau) (COSMOPUR 819 C)

Toxicity / effect	Endpo int	Value	Unit	Organis m	Test method	Notes
Acute toxicity, by oral	IIIL			- ""		n.d.a.
route:						
Acute toxicity, by						n.d.a.
dermal route:						
Acute toxicity, by	ATE	>20	mg/l/			Vapours,
inhalation:			4h			calculated
						value
Skin						n.d.a.
corrosion/irritation:						
Serious eye						n.d.a.
damage/irritation:						
Respiratory or skin						n.d.a.
sensitisation:						
Germ cell						n.d.a.
mutagenicity:						
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Specific target organ						n.d.a.
toxicity - single						
exposure (STOT-SE):						
Specific target organ						n.d.a.
toxicity - repeated						
exposure (STOT-RE):						
Aspiration hazard:						n.d.a.
Symptoms:						n.d.a.
Other information:						Classificati
						on
						according
						to
						calculation
						procedure.

Propylene carbonate Troxicity / effect Endpo int Acute toxicity, by oral route: Acute toxicity, by oral route: Acute toxicity, by oral route: Skin Corrosion/irritation:							
Caute toxicity, by oral route:	Propylene carbonate		., .	1			
Acute toxicity, by oral route:	l oxicity / effect		value	Unit		Test method	Notes
Acute toxicity, by dermal route: Secondary Communication	Acute toxicity, by oral		>5000	ma/k		OECD 401	
Acute toxicity, by dermal route: Common		LDS0	>50000		ivat		
Acute toxicity, by defmal route: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitisation: Respiratory or skin sensitisation: Respiratory or skin sensitisation: Germ cell mutagenicity: Germ cell mutagenicity: Germ cell mutagenicity: Germ cell mutagenicity: Germ cell spanning spanni	Touto.			9			
Skin corrosion/irritation: Rabbit OECD 404 (Acute Dermal Irritation/Corrosion) Serious eye damage/irritation: Respiratory or skin sensitisation: Respiratory or skin sensitisation: Gern cell mutagenicity: Aspiration hazard: Symptoms: Specific target organ toxicity - repeated exposure (STOT-RE), oral: Specific target organ toxicity - repeated exposure (STOT-RE), oral: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Skin CECD 401 (Scute Experimental Toxicity Study) in Rodents) NOEC 100 mg/m OECD 413 (Subchronic Inhalation Toxicity - 90-Day Contal Toxicity - 90-	Acute toxicity, by	LD50	>2000	mg/k	Rabbit		
Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitisation: Referredle mutagenicity: Referredle mutagenicity: Referredle mutagenicity: Reproductive toxicity: Reproductive	dermal route:			g		(Acute Dermal	
Serious eye damage/irritation: Respiratory or skin sensitisation: Germ cell mutagenicity: Negative (Gen. Tox DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells in Vitro) Germ cell Carcinogenicity Studies Aspiration hazard: Symptoms: Symptoms: Specific target organ toxicity - repeated exposure (STOT-RE), oral: NOEC 100 mg/m OECD 413 (Repeated Dose 90-Day Oral Toxicity Study) Dust, Mist Sudchronic Inhalation Toxicity - 90-Day Decc) 413 (Subchronic Inhalation Toxicity - 90-Day						Toxicity)	
Serious eye damage/irritation: Serious eye damage/irritation: Respiratory or skin sensitisation: Gern cell mutagenicity: Aspiration harange and Repair, Unscheduled DNA Synthesis in Mammalian Cells in Vitro) GeCD 451 (Carcinogenicity Studies) Negative (Carcinogenicity Studies) Aspiration hazard: Symptoms: Specific target organ toxicity - repeated exposure (STOT-RE), oral: Specific target organ toxicity - repeated exposure (STOT-RE), oral: Specific target organ toxicity - repeated exposure (STOT-RE), oral: Specific target organ toxicity - repeated exposure (STOT-RE), oral: Specific target organ toxicity - repeated exposure (STOT-RE), oral: Specific target organ toxicity - repeated exposure (STOT-RE), oral: Specific target organ toxicity - repeated exposure (STOT-RE), oral: Specific target organ toxicity - repeated exposure (STOT-RE), oral: Specific target organ toxicity - repeated exposure (STOT-RE), oral: Specific target organ toxicity - repeated exposure (STOT-RE), oral: Specific target organ toxicity - repeated exposure (STOT-RE), oral: Specific target organ toxicity - repeated exposure (STOT-RE), oral: Specific target organ toxicity - repeated exposure (STOT-RE), oral: Specific target organ toxicity - repeated exposure (STOT-RE), oral: Specific target organ toxicity - repeated exposure (STOT-RE), oral: Specific target organ toxicity - repeated exposure (STOT-RE), oral: Sp					Rabbit		Not irritant
Serious eye damage/irritation: Respiratory or skin sensitisation: Respiratory or skin sensitisation: Germ cell mutagenicity: Germ cell (Gern Tox. DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells In Vitro) Germ cell (Gern Tox. DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells In Vitro) Germ cell mutagenicity: Germ cell (Gern Tox. DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells In Vitro) Germ cell (Gern Tox. DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells In Vitro) Gero 451 (Carcinogenicity Studies) Reproductive toxicity: NOAE 1000 mg/k g Rat OECD 414 (Prenatal Developmental Toxicity Study) Aspiration hazard: Symptoms: Specific target organ toxicity - repeated exposure (STOT-RE), oral: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat:	corrosion/irritation:						
Serious eye damage/irritation: Respiratory or skin sensitisation: Respiratory or skin sensitisation: Germ cell mutagenicity: Germ cell (Gen. Tox DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells In Vitro) Carcinogenicity: Gerc d42 (Gen. Tox DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells In Vitro) Carcinogenicity: Gerc d42 (Gen. Tox DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells In Vitro) Negative (Prenatal Developmental Toxicity Study) Aspiration hazard: Symptoms: Specific target organ toxicity - repeated exposure (STOT-RE), oral: Specific target organ toxicity - repeated exposure (STOT-RE), oral: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalation toxicity - repeated exposure							
Respiratory or skin Semistisation: Human Deing DECD 471 Regative Respiratory or skin Semistisation: Human Deing DECD 471 Regative Respiratory or skin Semistisation: DECD 471 Regative Respiratory or skin Reverse Mutation Test) Regative Respiratory or skin Reverse Mutation Test Reverse Mutation Test Reverse Mutation Test Reverse Mutation Test Respiratory Respi	Sorious ous				Dobbit		Irritant
Respiratory or skin sensitisation: Germ cell mutagenicity: Germ cell (Germ Tox - DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells In Vitro) Carcinogenicity: Germ cell (Gern Tox - DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells In Vitro) Carcinogenicity: Germ cell (Gern Tox - DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells In Vitro) Aspiration hazard: Specific target organ toxicity - repeated exposure (STOT-RE), oral: Specific target organ toxicity - repeated exposure (STOT-RE), oral: Specific target organ toxicity - repeated exposure (STOT-RE), oral: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: NOEC 100 mg/m OECD 413 (Subchronic Inhalation Toxicity - 90-Day of the contact of the c					Nabbit		IIIIIaiii
Respiratory or skin sensitisation: Germ cell mutagenicity: Germ cell cythrocyte Micronucleus Test) Gern Tox DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells In Vitro) Gero 451 (Carcinogenicity Studies) Reproductive toxicity: NoAE 1000 mg/k Rat OECD 414 (Prenatal Developmental Toxicity Study) Aspiration hazard: Symptoms: Specific target organ toxicity - repeated exposure (STOT-RE), oral: Specific target organ toxicity - repeated exposure (STOT-RE), oral: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicit	damage/imation.						
Respiratory or skin sensitisation: Germ cell mutagenicity: Mouse CeCD 482 (Gen. Tox DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells in Vitro) Germ cell mutagenicity: Carcinogenicity: Mouse CeCD 451 (Carcinogenicity Studies) Reproductive toxicity: Nogative (Prenatal Developmental Toxicity Study) Aspiration hazard: Symptoms: Specific target organ toxicity - repeated exposure (STOT-RE), oral: Specific target organ toxicity - repeated exposure (STOT-RE), oral: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Toxicity - Po-Day Nober of Stories and Stories							
Sensitisation: Germ cell mutagenicity: Germ cell CECD 482 (Gen. Tox DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells in Vitro) Carcinogenicity: Carcinogenicity: Reproductive toxicity: NOAE 1000 mg/k g Rat OECD 414 (Prenatal Developmental Toxicity Studies) Aspiration hazard: Symptoms: Symptoms: Specific target organ toxicity - repeated exposure (STOT-RE), oral: Specific target organ toxicity - repeated exposure (STOT-RE), oral: Specific target organ toxicity - repeated exposure (STOT-RE), oral: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repea	Respiratory or skin				Human	11)	No (skin
Germ cell mutagenicity: Mouse OECD 482 (Gen. Tox DNA Dambersis in Mammalian Cells in Vitro) Carcinogenicity: Carcinogenicity: Carcinogenicity: Reproductive toxicity: NOAE 1000 mg/k g					being		
Reverse Mutation Test) Germ cell mutagenicity: Germ cell (Mammalian Erythrocyte Micronucleus Test) Germ cell mutagenicity: Germ cell centrol for the following the following the following the following the following test of the follow						OECD 471	
Germ cell mutagenicity: Germ cell (Mammalian Erythrocyte Micronucleus Test) Germ cell (Mammalian Erythrocyte Micronucleus Test) Germ cell (Gen. Tox DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells in Vitro) Carcinogenicity: Mouse OECD 451 (Carcinogenicity Studies) Reproductive toxicity: NOAE 1000 mg/k g Reproductive toxicity: Aspiration hazard: Symptoms: Specific target organ toxicity - repeated exposure (STOT-RE), oral: Specific target organ toxicity - repeated exposure (STOT-RE), oral: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specif	mutagenicity:					(Bacterial	
Germ cell mutagenicity: Germ cell Enthrocyte Micronucleus Test) Germ cell Germ cell mutagenicity: Germ cell mutagenicity: Germ cell Micronucleus Test) Germ cell						Reverse	
mutagenicity: Germ cell mutagenicity: Germ cell mutagenicity: Germ cell mutagenicity: Carcinogenicity: Mouse CeCD 451 (Carcinogenicity Studies) Reproductive toxicity: L GeCD 414 (Prenatal Developmental Toxicity Study) Aspiration hazard: Symptoms: Specific target organ toxicity - repeated exposure (STOT-RE), oral: Specific target organ toxicity - repeated exposure (STOT-RE), oral: Specific target organ toxicity - repeated exposure (STOT-RE), oral: Specific target organ toxicity - repeated exposure (STOT-RE), oral: Specific target organ toxicity - repeated exposure (STOT-RE), oral: Specific target organ toxicity - repeated exposure (STOT-RE), oral: Specific target organ toxicity - repeated exposure (STOT-RE), oral: Specific target organ toxicity - repeated exposure (STOT-RE), oral: Specific target organ toxicity - repeated exposure (STOT-RE), oral: Specific target organ toxicity - repeated exposure (STOT-RE), oral: Specific target organ toxicity - repeated exposure (STOT-RE), oral: Specific target organ toxicity - repeated exposure (STOT-RE), oral: Specific target organ toxicity - repeated exposure (STOT-RE), oral: Specific target organ toxicity - repeated exposure (STOT-RE), oral: Specific target organ toxicity - repeated exposure (STOT-RE), oral: Specific target organ toxicity - repeated exposure (STOT-RE), oral: Specific target organ toxicity - repeated exposure (STOT-RE), oral: Specific target organ toxicity - repeated exposure (STOT-RE), oral: Specific target organ toxicity - repeated exposure (STOT-RE), oral: Specific target organ toxicity - repeated exposure (STOT-RE), oral: Specific target organ toxicity - repeated exposure (STOT-RE), oral: Specific target organ toxicity - repeated exposure (STOT-RE), oral: Specific target organ toxicity - repeated exposure (STOT-RE), oral: Specific target orga							
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Reproductive toxicity: NOAE 1000 mg/k g Rat OECD 414 (Prenatal Developmental Toxicity Study)							
Aspiration hazard: Symptoms: Aspiration hazard:							
Aspiration hazard: Symptoms: Developmental Toxicity Study	Reproductive toxicity:		1000		Rat		Negative
Aspiration hazard: Symptoms: Symptoms: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), oral: Specific target organ toxicity - repeated exposure (STOT-RE), oral: Specific target organ toxicity - repeated exposure (STOT-RE), oral: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalaticy - repeat		L		g			
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Symptoms: Symptoms:	Assistation bounds			-		Toxicity Study)	No
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: NOEC 100 mg/m OECD 413 (Subchronic Inhalatic) Toxicity Subchronic Inhalatic) Specific target organ toxicity - repeated exposure (STOT-RE), oral: Specific target organ toxicity - repeated exposure (STOT-RE), oral: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Toxicity Subchronic Inhalation Toxicity - 90-Day							
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toxicity - repeated exposure (STOT-RE), oral: Specific target organ toxicity - repeated exposure (STOT-RE), oral: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Inhalat: Toxicity - Study in Rodents) Subchronic Inhalation Toxicity - 90-Day							nausea
exposure (STOT-RE), oral: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Specific target organ toxicity - specific target organization and toxicity - specific target organizati		NOEL	>5000				
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Specific target organ toxicity - repeated exposure (STOT-RE), inhalat: Rodents Ro							
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toxicity - repeated system (Subchronic Inhalation Inhalation Toxicity - 90-Day	0	NOTO	400				Donat Mini
exposure (STOT-RE), Inhalation Toxicity - 90-Day		NOEC	100				Dust, Mist
inhalat.: Toxicity - 90-Day				3			
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							1

Toxicity / effect	Endpo int	Value	Unit	Organis m	Test method	Notes	
Acute toxicity, by oral route:	LD50	>2000	mg/k g	Rat	Regulation (EC) 440/2008 B.1 (ACUTE ORAL TOXICITY)	Analogo conclusi	
Acute toxicity, by dermal route:	LD50	>9400	mg/k g	Rabbit	OECD 402 (Acute Dermal Toxicity)	Analogo conclusi	
Acute toxicity, by inhalation:	LC50	0,368	mg/l/ 4h	Rat	OECD 403 (Acute Inhalation Toxicity)	Aerosol, Does no conform with EU classifican.	
Acute toxicity, by inhalation:	sity, by ATE		mg/l/ 4h			Aerosol, Expert judgeme	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosio n)	Skin Irrit 2, Analogo conclusi	
Respiratory or skin				Guinea		Yes	
sensitisation:				pig		(inhalatio	
Respiratory or skin sensitisation:				Mouse	OECD 429 (Skin Sensitisation - Local Lymph Node Assay)	Skin Ser 1	
Germ cell mutagenicity:				Salmonel la typhimuri um	OECD 471 (Bacterial Reverse Mutation Test)	Negative Analogo conclusi	
Germ cell mutagenicity:				Rat	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative ale	
Germ cell mutagenicity:				Rat	OECD 489 (In Vivo Mammalian Alkaline Comet Assay)	Negative ale	
Carcinogenicity:				Rat	OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies)	Aerosol, Analogo conclusion Carc. 2	
Reproductive toxicity:	NOAE L	4-12	mg/m 3	Rat	OECD 414 (Prenatal Developmental Toxicity Study)	Aerosol, Analogo conclusi	



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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision date / version: 29.07.2021 / 0012
Replacing version dated / version: 15.02.2021 / 0011
Valid from: 29.07.2021
PDF print date: 30.07.2021
COSMO PU-100.130
COSMO PU-100.131
COSMO PU-100.132
COSMO PU-100.140

(COSMOPUR 819) (COSMOPUR 819 schwarz) (COSMOPUR 819 grau) (COSMOPUR 819 C)

inhalat.:					Toxicity/Carcinog enicity Studies)	Target organ(s):
exposure (STOT-RE),	-				Chronic	conclusion,
Specific target organ toxicity - repeated	NOAE	0,2	mg/m 3	Rat	OECD 453 (Combined	Aerosol, Analogous
						respiratory system
THOUSE.					enicity Studies)	organ(s):
exposure (STOT-RE), inhalat.:					Chronic Toxicity/Carcinog	conclusion, Target
toxicity - repeated	L		3	rtat	(Combined	Analogous
inhalative: Specific target organ	LOAE	1	mg/m	Rat	OECD 453	Aerosol,
exposure (STOT-SE),						irritation.
Specific target organ toxicity - single						May cause respiratory

TOXICITY / ETIECT	int	value	Oilit	m	restilletilou	Holes
Acute toxicity, by oral route:	LD50	>2000	mg/k g	Rat	Regulation (EC) 440/2008 B.1 (ACUTE ORAL TOXICITY)	Analogous conclusion
Acute toxicity, by dermal route:	LD50	>9400	mg/k g	Rabbit	OECD 402 (Acute Dermal Toxicity)	Analogous conclusion
Acute toxicity, by inhalation:	LC50	0,387	mg/l/ 4h	Rat		Aerosol, Does not conform with EU classificati n.
Acute toxicity, by inhalation:	ATE	1,5	mg/l/ 4h			Aerosol, Expert judgement
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosio n)	Skin Irrit. 2, Analogous conclusior
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosio n)	Not irritant Analogous conclusior Does not conform with EU classificati
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	No (skin contact), Analogous conclusion
Respiratory or skin sensitisation:				Guinea pig		Yes (inhalation Analogou conclusio
Respiratory or skin sensitisation:				Mouse	OECD 429 (Skin Sensitisation - Local Lymph Node Assay)	Yes (skin contact), Analogous conclusion
Germ cell mutagenicity:				Salmonel la typhimuri um	OECD 471 (Bacterial Reverse Mutation Test)	Negative, Analogous conclusion
Germ cell mutagenicity:				Rat	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative, Analogous conclusior male
Carcinogenicity:				Rat	OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies)	Aerosol, Analogous conclusior Carc. 2
Reproductive toxicity:	NOAE L	4-12	mg/k g	Rat	OECD 414 (Prenatal Developmental Toxicity Study)	Aerosol, Analogous conclusion
Symptoms:						mucous membrane irritation, breathing difficulties, coughing, asthmatic symptoms
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAE L	0,2	mg/m 3	Rat	OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies)	Aerosol, Analogous conclusior Target organ(s): respiratory system
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	LOAE L	1	mg/m 3	Rat	OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies)	Aerosol, Analogous conclusior Target organ(s): respiratory system

Diphenylmethanediiso	rvanato isc	mores and	homologue	16		
Toxicity / effect	Endpo	Value	Unit	Organis	Test method	Notes
Toxiony / oncor	int	• 4.40	0	m		
Acute toxicity, by oral route:	LD50	>5000	mg/k g	Rat	OECD 401 (Acute Oral	
Acute toxicity, by	LD50	>5000	mg/k	Rabbit	Toxicity) OECD 402	
dermal route:	LD30	>5000	g	Nabbit	(Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	0,31	mg/l/ 4h	Rat	OECD 403 (Acute Inhalation Toxicity)	Aerosol, Does not conform with EU classificatio n.
Acute toxicity, by inhalation:	ATE	1,5	mg/l/ 4h			Expert judgement.
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosio n)	Skin Irrit. 2
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosio n)	Not irritant, Analogous conclusion, Does not conform with EU classificatio n.
Respiratory or skin sensitisation:				Mouse	OECD 429 (Skin Sensitisation - Local Lymph Node Assay)	Yes (skin contact), Analogous conclusion
Respiratory or skin sensitisation:				Guinea pig Rat	OECD 406 (Skin Sensitisation)	No (skin contact)
Respiratory or skin sensitisation:					·	Yes (inhalation)
Germ cell mutagenicity:				Rat	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative, Analogous conclusion
Germ cell mutagenicity:				Salmonel la typhimuri um	OECD 471 (Bacterial Reverse Mutation Test)	Negative
Carcinogenicity:				Rat	OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies)	Aerosol, Limited evidence of a carcinogeni c effect.
Reproductive toxicity:	NOAE L	4	mg/m 3	Rat	OECD 414 (Prenatal Developmental Toxicity Study)	Aerosol, Negative
Specific target organ toxicity - repeated exposure (STOT-RE):	LOAE L	1		Rat	OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies)	Aerosol, Analogous conclusion
Specific target organ toxicity - repeated exposure (STOT-RE):	NOAE L	0,2		Rat	OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies)	Aerosol, Analogous conclusion
Aspiration hazard: Specific target organ			1			Negative Target
Specific target organ toxicity - single exposure (STOT-SE), inhalative:						rarget organ(s): respiratory system, May cause respiratory irritation.
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:						Target organ(s): respiratory system, Positive
Titanium dioxide (in po	wder form	containing 1	% or more	of particles	with aerodynamic di	ameter <= 10

						Positive
Titanium dioxide (in po	wder form	containing '	l % or more	e of particles	with aerodynamic dia	ameter <= 10
Toxicity / effect	Endpo	Value	Unit	Organis m	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/k g	Rat	OECD 425 (Acute Oral Toxicity - Up- and-Down Procedure)	
Acute toxicity, by dermal route:	LD50	>5000	mg/k g	Rabbit		
Acute toxicity, by inhalation:	LD50	>6,8	mg/l/ 4h	Rat		
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosio n)	Not irritant
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosio n)	Not irritant, Mechanical irritation possible.
Respiratory or skin sensitisation:				Mouse	OECD 429 (Skin Sensitisation - Local Lymph Node Assay)	Not sensitizisin g
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	No (skin contact)
Germ cell mutagenicity:				Mouse	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative
Germ cell mutagenicity:				Mammali an	OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative



GB Page 7 of 14 NOAE OECD 453 Specific target organ 0,2 Rat mg/m 3 Aerosol. Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 29.07.2021 / 0012 Target toxicity - repeate (Combined organ(s): respiratory system, Analogous exposure (STOT-RE). Chronic Revision date / version: 23.07.2021 / 0012 Replacing version dated / version: 15.02.2021 / 0011 Valid from: 29.07.2021 PDF print date: 30.07.2021 COSMO PU-100.130 Toxicity/Carcinog enicity Studies) inhalat.: conclusion OECD 453 Specific target organ LOAE COSMO PU-100.131 mg/m 3 Rat Aerosol. toxicity - repeated exposure (STOT-RE), inhalat.: (Combined Chronic Toxicity/Carcinog enicity Studies) Target organ(s): respiratory COSMO PU-100.132 COSMO PU-100.140 (COSMOPUR 819) (COSMOPUR 819 schwarz) (COSMOPUR 819 grau) system, Analogous conclusion (COSMOPUR 819 C) 4,4'-methylenediphenyl diisocyan
Toxicity / effect Endpo (Ames-Test) Negative Test method Notes Germ cell Organis mutagenicity: int LD50 tvphimuri >10000 OECD 401 Acute toxicity, by oral mg/k Rat (Acute Oral Germ cell mutagenicity: Toxicity)
Regulation (EC) OECD 476 (In Negative Acute toxicity, by oral LD50 >2000 mg/k Mammalian Cell 440/2008 B.1 (ACUTE ORAL route: g Gene Mutation Test) TOXICITY) OFCD 471 Acute toxicity, by dermal route: Germ cell Negative LD50 >9400 Rabbi (Bacterial Reverse Mutation Test) OECD 414 mutagenicity: (Acute Dermal Toxicity) OECD 403 LC50 >2,24 Acute toxicity, by mg/l/ Rat Aerosol Rat Reproductive toxicity inhalation: 4h (Acute Inhalation Toxicity)
OECD 403
(Acute Inhalation
Toxicity) (Prenatal indications toxicity): Developmental of such an Acute toxicity, by inhalation: LC50 0,368 Does not conform with EU Toxicity Study) Specific target organ toxicity - single (respiratory classification exposure (STOT-SE): tract). mucous Skin Rahhit OFCD 404 Irritant membrane (Acute Dermal Irritation/Corrosio Analogous conclusion corrosion/irritation: irritation, coughing, n) OECD 405 respiratory Serious eye Rabbit Irritant. damage/irritation: distress. (Acute Eve Analogous drying of the skin. Irritation/Corrosio conclusion NOAE 3500 Rat OECD 429 (Skin Specific target organ Respiratory or skin toxicity - repeated exposure (STOT-RE), Sensitisation contact), Local Lymph Analogous conclusion Yes Node Assay) OECD 429 (Skir Specific target organ Respiratory or skin sensitisation: NOAE 10 mg/m 3 Rat 90d Mouse (inhalation and skin toxicity - repeated exposure (STOT-RE), c Sensitisation Local Lymph inhalat.: Node Assay) contact), Analogous conclusion

Negative,
Analogous
conclusion 2,2'-methylenediphenyl diisocyanate
Toxicity / effect Endpo Value Unit Organis Test method Notes OECD 471 (Bacterial Reverse mutagenicity: int LD50 m Rat Acute toxicity, by ora mg/ Regulation (EC) Analogous route: g 440/2008 B.1 conclusion Mutation Test) OECD 453 (ACUTE ORAL Carcinogenicity: Analogous conclusion. (Combined OECD 402 (Acute Dermal Chronic
Toxicity/Carcinog
enicity Studies) Limited evidence of a carcinogeni Acute toxicity, by dermal route: LD50 >9400 Rabbi Analogous conclusion mg/ Toxicity) OECD 403 LC50 0,527 Acute toxicity, by Aerosol, mg/l Rat c effect.

Negative,
Analogous
conclusion inhalation: 4h (Acute Inhalation Does not conform with EU classificatio Toxicity) Reproductive toxicity NOAE Rat OFCD 414 Toxicity Study) n. Aerosol, ATE 1,5 respiratory Acute toxicity, by mg/ Symptoms: Expert judgement Skin Irrit. 2 inhalation: distress coughing, mucous membrane OECD 404 (Acute Dermal Irritation/Corrosio Skin corrosion/irritation: Rabbi irritation Specific target organ Irritation of OECD 405 toxicity - single exposure (STOT-SE), inhalative: Specific target organ Serious eye damage/irritation: Slightly Rabbit respiratory tract Irritation of n) Respiratory or skin Guinea toxicity - single exposure (STOT-SE), the sensitisation: pig (inhalation) respiratory Analogous inhalative tract. Target organ(s): respiratory conclusion Yes (skin Mouse OECD 429 (Skir Respiratory or skin sensitisation Sensitisation contact) Local Lymph system Node Assay) OECD 471 Germ cell mutagenicity: Salmon Negative Silica, amorphous Toxicity / effect Endpo Value Unit Organis Notes typhimur Reverse int LD50 m Rat Mutation Test) OECD 474 OECD 423 Acute toxicity, by oral >5000 ma/k um Rat (Acute Oral Toxicity - Acute Toxic Class Method) OECD 402 Germ cell Negative, route g mutagenicity: (Mammalian Analogous Erythrocyte Micronucleus conclusion LD50 Acute toxicity, by > 2000 mg/k Rat Test) OECD 453 Carcinogenicity Analogous dermal route g (Acute Dermal (Combined conclusion. Toxicity) OECD 404 Chronic Toxicity/Carcinog enicity Studies) OECD 414 Aerosol, Carc. 2 Rabbi Not irritant (Acute Dermal Irritation/Corrosio corrosion/irritation Reproductive toxicity mg/m OECD 405 indications Serious eye damage/irritation: (Prenatal Rabbit Not irritant (Acute Eye Irritation/Corrosio Developmental of such an Toxicity Study) effect. Aerosol, Analogous n) OECD 471 Germ cell Negative conclusion mutagenicity: (Bacterial Symptoms: respiratory . Reverse distress. Mutation Test) coughing, mucous membrane Aspiration hazard No o-(p-isocyanatobenzyl)phenyl isocyanate
Toxicity / effect Endpo Value irritation Unit Organis Test method Notes int



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(COSMOPUR 819) (COSMOPUR 819 schwarz) (COSMOPUR 819 grau) (COSMOPUR 819 C)

Acute toxicity, by oral	LD50	>2000	mg/k	Rat	Regulation (EC)	Analogous
route:			g		440/2008 B.1 (ACUTE ORAL TOXICITY)	conclusion
Acute toxicity, by dermal route:	LD50	>9400	mg/k g	Rabbit	OECD 402 (Acute Dermal Toxicity)	Analogous conclusion
Acute toxicity, by inhalation:	LC50	0,387	mg/l/ 4h	Rat		Does not conform with EU classificatio n.
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosio n)	Irritant, Analogous conclusion
Respiratory or skin sensitisation:				Mouse	OECD 429 (Skin Sensitisation - Local Lymph Node Assay)	Sensitising (skin contact), Analogous conclusion
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Yes (inhalation), Analogous conclusion
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative, Analogous conclusion
Carcinogenicity:					OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies)	Analogous conclusion, Limited evidence of a carcinogeni c effect.
Reproductive toxicity:					OECD 414 (Prenatal Developmental Toxicity Study)	Negative
Symptoms:						asthmatic symptoms, mucous membrane irritation
Specific target organ toxicity - single exposure (STOT-SE), inhalative:						Target organ(s): respiratory tract, Irritant

Toxicity / effect	Endpo int	Value	Unit	Organis m	Test method	Notes
Acute toxicity, by oral route:	LD50	>2000	mg/k g	Rat	OECD 420 (Acute Oral toxicity - Fixe Dose Procedure)	
Acute toxicity, by oral route:	LD50	> 5000	mg/k g	Rat	·	
Acute toxicity, by dermal route:	LD50	>2000	mg/k g	Rat	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	>3	mg/l/ 4h	Rat	OECD 403 (Acute Inhalation Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosio n)	Not irritant
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosio n)	Not irritant Mechanica irritation possible.
Respiratory or skin sensitisation:					·	No (skin contact)
Germ cell mutagenicity:					in vitro	Negative
Carcinogenicity:						Negative, administer d as Ca- lactate
Reproductive toxicity:						Negative, administer d as Ca- carbonate

Toxicity / effect	Endpo int	Value	Unit	Organis	Test method	Notes
Acute toxicity, by oral route:	LD50	>10000	mg/k g	m Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	>9400	mg/k g	Rabbit	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	0,49	mg/l/ 4h	Rat	OECD 403 (Acute Inhalation Toxicity)	Aerosol, Does not conform with EU classificati n.

Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosio	Irritant
Serious eye damage/irritation:				Rabbit	n) OECD 405 (Acute Eye Irritation/Corrosio n)	Mild irritant
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Yes (skin contact)
Germ cell mutagenicity:					OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative
Carcinogenicity:		1	mg/m 3	Rat	OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies)	Positive
Reproductive toxicity:	NOAE L	12	mg/m 3	Rat	OECD 414 (Prenatal Developmental Toxicity Study)	Negative, Aerosol
Reproductive toxicity (Developmental toxicity):		4		Rat	OECD 414 (Prenatal Developmental Toxicity Study)	Negative
Reproductive toxicity (Effects on fertility):				Rat	OECD 414 (Prenatal Developmental Toxicity Study)	Negative
Specific target organ toxicity - single exposure (STOT-SE):						Irritation of the respiratory tract
Specific target organ toxicity - repeated exposure (STOT-RE):	NOEC	0,2	mg/k g		OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies)	
Aspiration hazard:					,	No
Symptoms:						fever, coughing, headaches, nausea and vomiting., dizziness, breathing difficulties, laryngeal oedema, abdominal pain, diarrhoea
Specific target organ toxicity - single exposure (STOT-SE), inhalative:						Target organ(s): respiratory organs, May cause respiratory irritation.

SECTION 12: Ecological information

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

COSMO PU-100.130

COSMO PU-100.131

COSMO PU-100.132

COSMO PU-100.140

(COSMOPUR 819) (COSMOPUR 819 schwarz) (COSMOPUR 819 grau)

Toxicity / effect	Endpoin	Tim	Valu e	Unit	Organism	Test method	Notes
12.1. Toxicity to	t	е	e			method	n.d.a.
ish:							II.u.a.
12.1. Toxicity to							n.d.a.
daphnia:							11.0.0.
12.1. Toxicity to							n.d.a.
algae:							
12.2.							With wa
Persistence and							at the
degradability:							interfac
,							transfor
							slowly v
							formatio
							of CO2
							into a fi
							insolubl
							reaction
							product
							with a h
							melting
							point
							(polyca
							mide).
							Accordi
							to
							experie
							availabl
							to date,
							polycari
							ide is in
							and nor
							degrada
12.3.					1		n.d.a.
Bioaccumulative							
otential:							
12.4. Mobility in							n.d.a.
soil:			1		1	1	1



								12.1. Toxicity to fish:	LC50	96h	>10 00	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity Test)	Analogou conclusio
sh:			00		rerio	(Fish, Acute Toxicity Test)	conclusion	Toxicity / effect	Endpoin t	Tim e	Valu e	Unit	Organism	Test method	Notes
2.4. Mobility in oil: 2.1. Toxicity to	H (Henry) LC50	96h	0,02 29 >10 00	Pa*m 3/mol mg/l	Brachydanio	OECD 203 (Fish Acute	Analogous	o-(p-isocyanatobe	enzyl)phenvl i	socvana	te			Toxicity Tests)	
							point (polycarba mide).	Toxicity to annelids:	EC50	14d	>10 00	mg/k g	Eisenia foetida	OECD 207 (Earthworm, Acute	Analogoi conclusio
							product with a high melting	Tovicituda	EC50	4.42		gas as Al-	Einenia	Toxicity Tests)	A
							insoluble reaction	Toxicity to annelids:	NOEC/N OEL	14d	> 100 0	mg/k g	Lumbricus terrestris	OECD 207 (Earthworm, Acute	Analogo conclusi
							formation of CO2 into a firm,					Ĺ		Plants, Growth Test)	
							interface, transforms slowly with	Other organisms:	NOEC/N OEL	14d	>10 00	mg/k g	Avena sativa	Test) OECD 208 (Terrestrial	Analogo
							available to date, polycarbam ide is inert and non- degradable ., With water at the	Other organisms:	NOEC/N OEL	14d	>10 00	mg/k g	Lactuca sativa	(Carbon and Ammonium Oxidation)) OECD 208 (Terrestrial Plants, Growth	Analogo conclus
ther formation:						memou	According to experience						- Sanga	Sludge, Respiration Inhibition Test	
4'-methylenedipl oxicity / effect	henyl diisocy Endpoin t	/anate Tim e	Valu e	Unit	Organism	Test method	Notes	Toxicity to bacteria:	EC50	3h	>10 0	mg/l	activated sludge	OECD 209 (Activated	water. Analogo conclus
							organically bound halogens which can contribute to the AOX value in waste water.	information:							contain any organics bound haloger which contribu to the A value in waste
ther formation:	AOX		0	%	as pullua	1.0	Does not contain any	assessment	AOX						No vPvl substan Does no
oxicity to acteria:	EC10	16h	740 0	mg/l	Pseudomon as putida	DIN 38412 T.8	substance	12.5. Results of PBT and vPvB						(ESIS)	No PBT substan
2.5. Results of BT and vPvB sessment							value No PBT substance, No vPvB	12.3. Bioaccumulative potential:	BCF	28d	200		Cyprinus caprio	Test) IUCLID Chem. Data Sheet	Not to b expecte
otential:							unlikely (LogPow < 1)., calculated	12.1. Toxicity to algae:	ErC50	72h	>16 40	mg/l	Desmodesm us subspicatus	OECD 201 (Alga, Growth Inhibition	Analogo
egradability: 2.3. ioaccumulative	Log Pow		- 0,48			Biodegradab ility - DOC Die-Away Test)	Bioaccumul ation is								on potentia has to b expecte (LogPov 3).
2.2. ersistence and	DOC	14d	90- 100	%		ility - Co2 Evolution Test) OECD 301 A (Ready		12.3. Bioaccumulative potential:	Log Pow		5,22			Immobilisati on Test)	A notab
2.2. ersistence and egradability:			83,5 -87- 7	%		Inhibition Test) OECD 301 B (Ready Biodegradab	Readily biodegrada ble29d	12.1. Toxicity to daphnia:	NOEC/N OEL	21d	>10	mg/l	Daphnia magna	Immobilisati on Test) OECD 202 (Daphnia sp. Acute	Analogo conclus
2.1. Toxicity to	EC50	72h	>90 0	mg/l	Desmodesm us subspicatus	Immobilisati on Test) OECD 201 (Alga, Growth		12.1. Toxicity to daphnia:	EC50	24h	>10 00	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute	Analogo conclusi
sh: 2.1. Toxicity to aphnia:	EC50	48h	>10 >10 00	mg/l	caprio Daphnia magna	OECD 202 (Daphnia sp. Acute									and nor degrada ., Analogo
oxicity / effect 2.1. Toxicity to	Endpoin t LC50	Tim e 96h	Valu e >10	Unit mg/l	Organism Cyprinus	Test method 92/69/EC	Notes								to date, polycarb ide is inc
2.6. Other dverse effects:							n.d.a.								Accordir to experier available
2.5. Results of BT and vPvB ssessment							n.d.a.								melting point (polycar mide).,
COSMOPUR 819) COSMOPUR 819 (COSMOPUR 819 (COSMOPUR 819 (schwarz) grau)														into a fir insoluble reaction product with a hi
PDF print date: 30.0 COSMO PU-100.13 COSMO PU-100.13 COSMO PU-100.13 COSMO PU-100.14	30 31 32													MITI Test (II))	interface transforr slowly w formatio of CO2
Safety data sheet a Revision date / vers Replacing version o Valid from: 29.07.20	sion: 29.07.20 dated / version 021	21 / 001	2		o, Alliex II			Persistence and degradability:						C (Inherent Biodegradab ility - Modified	biodegra ble, With water at the



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(COSMOPUR 819) (COSMOPUR 819 schwarz) (COSMOPUR 819 grau) (COSMOPUR 819 C)

12.1. Toxicity to daphnia:	EC50	24h	>10 00	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisati on Test)	Analogous conclusion
12.1. Toxicity to daphnia:	NOEC/N OEL	21d	>10	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisati on Test)	Analogous conclusion
12.1. Toxicity to algae:	ErC50	72h	>16 40	mg/l	Scenedesm us subspicatus	OECD 201 (Alga, Growth Inhibition Test)	Analogous conclusion
12.2. Persistence and degradability:		28d	0	%		OECD 302 C (Inherent Biodegradab ility - Modified MITI Test (II))	Not biodegrada bile, Analogous conclusion, 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).
12.3. Bioaccumulative potential:	BCF	28d	200		Cyprinus caprio	OECD 305 (Bioconcentr ation - Flow- Through Fish Test)	Not to be expected, Analogous conclusion
12.4. Mobility in soil:	H (Henry)		0,02 29	Pa*m 3/mol		,	
12.5. Results of PBT and vPvB assessment	7/						No PBT substance, No vPvB substance
Toxicity to bacteria:	EC50	3h	>10 0	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	Analogous conclusion
Other organisms:	NOEC/N OEL	14d	>10 00	mg/k g	Avena sativa	OECD 208 (Terrestrial Plants, Growth Test)	Analogous conclusion
Other organisms:	NOEC/N OEL	14d	>10 00	mg/k g	Lactuca sativa	OECD 208 (Terrestrial Plants, Growth Test)	Analogous conclusion
Toxicity to annelids:	NOEC/N OEL	14d	>10 00	mg/k g	Eisenia foetida	OECD 207 (Earthworm, Acute Toxicity Tests)	Analogous conclusion
Dinhonylmothana							

Diphenylmethanediisocyanate, isomeres and homologues							
Toxicity / effect	Endpoin	Tim	Valu	Unit	Organism	Test	Notes
Other organisms:	NOEC/N	e 14d	e >10	mg/k	Avena sativa	method OECD 208	
ÿ	OEL		00	g		(Terrestrial Plants, Growth Test)	
12.1. Toxicity to fish:	LC50	96h	>10 00	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	NOEC/N OEL	21d	>10	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisati on Test)	

12.1. Toxicity to	EC50	24h	>10	mg/l	Daphnia	OECD 202	
daphnia:			00		magna	(Daphnia	
						sp. Acute	
						Immobilisati on Test)	
12.1. Toxicity to	ErC50	72h	>16	mg/l	Scenedesm	OECD 201	
algae:	21000	7211	40	1119/1	us	(Alga,	
· ·					subspicatus	Growth	
						Inhibition	
						Test)	
12.2.		28d	0	%	activated	OECD 302	Not
Persistence and					sludge	C (Inherent	biodegrada
degradability:						Biodegradab ility -	ble, According
						Modified	to
						MITI Test	experience
						(II))	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).
12.3.	BCF	42d	<14		Cyprinus	OECD 305	Not to be
Bioaccumulative					carpio	(Bioconcentr	expected
potential:						ation - Flow-	
						Through	
12.5. Results of						Fish Test)	Negative
PBT and vPvB							regulive
assessment							
Toxicity to	EC50	3h	>10	mg/l	activated	OECD 209	
bacteria:			0		sludge	(Activated	
						Sludge,	
						Respiration	
						Inhibition Test	
						(Carbon	
						and	
						Ammonium	
						Oxidation))	
Other organisms:	NOEC/N	14d	>10	mg/k	Lactuca	OECD 208	
	OEL		00	g	sativa	(Terrestrial	
						Plants,	
						Growth	
Taviaituta	NOEC/N	444	. 10		Lumphainus	Test)	
Toxicity to annelids:	NOEC/N OEL	14d	>10 00	mg/k	Lumbricus terrestris	OECD 207 (Earthworm,	
annenus.	JEL		00	g	(CITESUIS	Acute	
						Toxicity	
						Tests)	
						•	
Titanium dioxide (in nowder for	rm conta	ining 1 9	or more	of particles with	aerodynamic di	ameter <= 10

μm) Toxicity / effect	Endpoin t	Tim e	Valu e	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	>10 0	mg/l	Oncorhynch us mykiss	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	LC50	48h	>10 0	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisati on Test)	
12.1. Toxicity to algae:	EC50	72h	16	mg/l	Pseudokirch neriella subcapitata	U.S. EPA- 600/9-78- 018	
12.2. Persistence and degradability:							Not relevant for inorganic substances
12.3. Bioaccumulative potential:	BCF	42d	9,6				Not to be expected
12.3. Bioaccumulative potential:	BCF	14d	19- 352				Oncorhyno hus mykiss
12.4. Mobility in soil:							Negative
12.5. Results of PBT and vPvB assessment							No PBT substance No vPvB substance
Toxicity to bacteria:			>50 00	mg/l	Escherichia coli		
Toxicity to bacteria:	LC0	24h	>10 000	mg/l	Pseudomon as fluorescens		
Toxicity to annelids:	NOEC/N OEL		>10 00	mg/k g	Eisenia foetida		
Water solubility:							Insoluble2

2,2-metnylenedipnenyi diisocyanate								
Toxicity / effect	Endpoin t	Tim e	Valu e	Unit	Organism	Test method	Notes	



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(COSMOPUR 819) (COSMOPUR 819 schwarz) (COSMOPUR 819 grau) (COSMOPUR 819 C) 12.5. Results of PBT and vPvB

12.5. Results of PBT and vPvB assessment							No PBT substance No vPvB substance
12.4. Mobility in	H (Hoppy)		0,02	Pa*m 3/mol			
soil: 12.1. Toxicity to fish:	(Henry) LC50	96h	29 >10 00	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity Test)	Analogou: conclusion
12.1. Toxicity to daphnia:	NOEC/N OEL	21d	>10	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisati on Test)	Analogous conclusion
12.1. Toxicity to daphnia:	EC50	24h	>10 00	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisati on Test)	Analogous conclusion
12.1. Toxicity to algae:	EC50	72h	>16 40	mg/l	Scenedesm us subspicatus	OECD 201 (Alga, Growth Inhibition Test)	Analogou conclusio
12.2. Persistence and degradability:		28d	0	%	activated sludge	OECD 302 C (Inherent Biodegradab ility - Modified MITI Test (II))	With wate at the interface, transforms forms forms form slowly with formation of CO2 into a firm insoluble reaction product with a high melting polycarba mide) According to experienc available to date, polycarba ide is iner and nondegradabl Analogou conclusion
12.3. Bioaccumulative potential:	Log Pow		5,22				A notable biological accumula on potential has to be expected (LogPow 3).
12.3. Bioaccumulative potential:	BCF	28d	200		Cyprinus caprio	OECD 305 (Bioconcentr ation - Flow- Through Fish Test)	Not to be expected, Analogou conclusion
Toxicity to bacteria:	EC50	3h	>10 0	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	Analogous conclusion
Other organisms:	NOEC/N OEL	14d	>10 00	mg/k g	Avena sativa	OECD 208 (Terrestrial Plants, Growth Test)	Analogou conclusio
Other organisms:	NOEC/N OEL	14d	>10 00	mg/k g	Lactuca sativa	OECD 208 (Terrestrial Plants, Growth Test)	Analogou conclusio
Toxicity to annelids:	NOEC/N OEL	14d	>10 00	mg/k g	Eisenia foetida	OECD 207 (Earthworm, Acute Toxicity Tests)	Analogou conclusio

4,4'-methylenediphenyl diisocyanate								
Toxicity / effect	Endpoin	Tim	Valu	Unit	Organism	Test	Notes	
	t	e	e			method		
12.1. Toxicity to fish:	LC50	96h	>10 00	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity Test)		

12.1 Toviol* : to	100	OCF	-10	ma/l	Brachudania	OECD 202	Apologo
12.1. Toxicity to fish:	LC0	96h	>10 00	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity Test)	Analogous
12.1. Toxicity to daphnia:	EC50	24h	>10 00	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisati on Test)	Analogous conclusion
12.1. Toxicity to algae:	EC50	72h	1,5	mg/l		OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	EC50	72h	164 0	mg/l	Desmodesm us subspicatus	OECD 201 (Alga, Growth Inhibition Test)	Analogous conclusion
12.1. Toxicity to algae:	NOEC/N OEL	72h	164 0	mg/l	Desmodesm us subspicatus	OECD 201 (Alga, Growth Inhibition	Analogous conclusion
12.2. Persistence and degradability:		28d	0	%		Test) OECD 302 C (Inherent Biodegradab ility - Modified MITI Test (II))	With water at the interface, transforms slowly with formation of CO2 into a firm, insoluble reaction product with a high melting point (polycarba mide). According to experience available to discuss the color of th
12.2. Persistence and degradability:	BOD	28d	0	%		OECD 302 C (Inherent Biodegradab iity - Modified MITI Test (II))	With water at the interface, transforms slowly with formation of CO2 into a firm, insoluble reaction product with a high melting point (polycarbar do date, polycarbar date). According to experience available to date, polycarbar and non-degradable.
12.3. Bioaccumulative potential:	BCF	28d	200		Cyprinus caprio	OECD 305 (Bioconcentr ation - Flow- Through Fish Test)	A notable biological accumulat on potential has to be expected (LogPow >
12.3. Bioaccumulative potential:	Log Pow		5,22			OECD 117 (Partition Coefficient (n- octanol/wate r) - HPLC method)	3). A notable biological accumulat on potential has to be expected (LogPow > 3).
12.5. Results of PBT and vPvB assessment							No PBT substance No vPvB substance
Toxicity to bacteria:	EC50	3h	>10 0	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	
Toxicity to bacteria:	EC50	3h	>10 0	mg/l	activated sludge	ORGANION)) OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium	Analogous conclusion



B) Page 12 of 14 Safety data sheet a			(EC) ::	1007/5				Toxicity to	EC50	3h	>10	mg/l	activated	OECD 209	Analogous
Safety data sheet a Revision date / vers Replacing version of Valid from: 29.07.2: PDF print date: 30.1 COSMO PU-100.1: COSMO PU-100.1: COSMO PU-100.1:	sion: 29.07.20 dated / versior 021 07.2021 30 31	21 / 001:	2 ′		5, Annex II			bacteria:			0		sludge	(Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium	conclusion
COSMO PU-100.14 (COSMOPUR 819) (COSMOPUR 819 (COSMOPUR 819	schwarz) grau)							Other organisms:	NOEC/N OEL	14d	>10 00		Lumbricus terrestris	Oxidation)) OECD 207 (Earthworm, Acute Toxicity	Analogous conclusion
(COSMOPUR 819 Other	C)						Does not	Calcium carbonat	e					Tests)	
information:							contain any	Toxicity / effect	Endpoin t	Tim e	Valu e	Unit	Organism	Test method	Notes
							organically bound halogens which can contribute	12.1. Toxicity to daphnia:	EC50	48h	>10 0	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisati on Test)	
Toxicity to	EC50	14d	>10	mg/k	Eisenia	OECD 207	to the AOX value in waste water.	12.1. Toxicity to algae:	EC50	72h	>14	mg/l	Desmodesm us subspicatus	OECD 201 (Alga, Growth Inhibition	
annelids:	ECSU	140	00	g g	foetida	(Earthworm, Acute Toxicity Tests)		Toxicity to bacteria:	EC50	3h	>10 00	mg/l	activated sludge	Test) OECD 209 (Activated Sludge, Respiration	
Silica, amorphous														Inhibition Test	
Toxicity / effect 12.1. Toxicity to fish:	Endpoin t EC0	Tim e 96h	Valu e >10 000	Unit mg/l	Organism Brachydanio rerio	Test method OECD 203 (Fish, Acute	Notes							(Carbon and Ammonium Oxidation))	
12.1. Toxicity to daphnia:	EC0	24h	>10 00	mg/l	Daphnia magna	Toxicity Test) OECD 202 (Daphnia		Toxicity to annelids:					Eisenia foetida	OECD 207 (Earthworm, Acute Toxicity	Negative
12.1. Toxicity to	ErC50	72h	>=1	mg/l	Scenedesm	sp. Acute Immobilisati on Test) OECD 201		12.3. Bioaccumulative potential:						Tests)	Not relevant for
algae:			000		us subspicatus	(Alga, Growth Inhibition Test)		12.4. Mobility in							inorganic substance
12.2. Persistence and degradability:						Test)	Inorganic products cannot be eliminated from water	soil:							relevant for inorganic substance
12.5. Results of							through biological purification methods. No PBT	12.5. Results of PBT and vPvB assessment							Not relevant for inorganic substance
PBT and vPvB assessment							substance, No vPvB substance	12.1. Toxicity to fish:	LC50	96h	>10 000	mg/l	Oncorhynch us mykiss		·
o-(p-isocyanatobe	enzyl)phenyl i	socyana	ite					12.1. Toxicity to fish:	LC50	96h	>10 0	mg/l	Oncorhynch us mykiss	OECD 203 (Fish, Acute	
Toxicity / effect	Endpoin t	Tim e	Valu e	Unit	Organism	Test method	Notes						,	Toxicity Test)	
12.1. Toxicity to fish:	LC0	96h	> 100 0	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity	Analogous conclusion	12.1. Toxicity to daphnia: 12.1. Toxicity to	EC50 EC50	48h 72h	>10 00 >20	mg/l mg/l	Daphnia magna Desmodesm		
12.1. Toxicity to daphnia:	EC50	24h	>10 00	mg/l	Daphnia magna	Test) OECD 202 (Daphnia sp. Acute Immobilisati	Analogous conclusion	algae: 12.2. Persistence and degradability:			0		us subspicatus		Inorganic products cannot be
12.1. Toxicity to daphnia:	NOEC/N OEL	21d	>10	mg/l	Daphnia magna	on Test) OECD 202 (Daphnia sp. Acute Immobilisati on Test)	Analogous conclusion								eliminated from wate through biological purification methods.
12.1. Toxicity to algae:	ErC50	72h	>16 40	mg/l	Scenedesm us	OECD 201 (Alga,	Analogous conclusion	Diphenylmethane	diisocyanate.	isomere	es and ho	mologues	3		
,					subspicatus	Growth Inhibition		Toxicity / effect	Endpoin t	Tim e	Valu e	Unit	Organism	Test method	Notes
12.2. Persistence and degradability:		28d	0	%		Test) OECD 302 C (Inherent Biodegradab	With water at the interface,	12.1. Toxicity to fish:	LC50	96h	>10 00	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity Test)	
aog.adabiii.y.						ility - Modified MITI Test (II))	transforms slowly with formation of CO2 into a firm,	12.1. Toxicity to daphnia:	NOEC/N OEL	21d	>10	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproductio n Test)	
							insoluble reaction product with a high melting	12.1. Toxicity to daphnia:	EC50	24h	>10 00	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisati on Test)	
							point (polycarba mide)., Analogous conclusion	12.1. Toxicity to algae:	EC50	72h	>16 40	mg/l	Scenedesm us subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.3. Bioaccumulative potential:	BCF	28d	200		Cyprinus caprio	OECD 305 (Bioconcentr ation - Flow- Through Fish Test)	Not to be expected, Analogous conclusion	12.2. Persistence and degradability:		28d	0	%		OECD 301 C (Ready Biodegradab ility - Modified	Not biodegrad ble
12.5. Results of PBT and vPvB							No PBT substance, No vPvB							MITI Test (I))	



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Revision date / version: 23.07.2021 / 0012 Replacing version dated / version: 15.02.2021 / 0011 Valid from: 29.07.2021 PDF print date: 30.07.2021 COSMO PU-100.130

COSMO PU-100.131 COSMO PU-100.132 COSMO PU-100.140

(COSMOPUR 819 schwarz) (COSMOPUR 819 grau) (COSMOPUR 819 C)

12.3. Bioaccumulative potential:	BCF	42d	<14		Cyprinus caprio	OECD 305 (Bioconcentr ation - Flow- Through Fish Test)	A notable biological accumulati on potential is not to be expected (LogPow 1-3). No PBT
PBT and vPvB assessment							substance
Toxicity to bacteria:	EC50	3h	>10 0	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	
Other organisms:	NOEC/N OEL	14d	>10 00	mg/k g	Eisenia foetida	OECD 207 (Earthworm, Acute Toxicity Tests)	
Other information:	BOD	28d	<10	%		OECD 302 C (Inherent Biodegradab ility - Modified MITI Test (II))	
Other information:							Does not contain any organically bound halogens which can contribute to the AOX value in waste water.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

For the substance / mixture / residual amounts

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU)

08 04 09 waste adhesives and sealants containing organic solvents or other hazardous substances

08 05 01 waste isocyanates Recommendation:

Recommendations
Sewage disposal shall be discouraged.
Pay attention to local and national official regulations.
E.g. suitable incineration plant.

Hardened product:

E.g. dispose at suitable refuse site.

For contaminated packing material

Pay attention to local and national official regulations.

Empty container completely

Uncontaminated packaging can be recycled.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

15 01 10 packaging containing residues of or contaminated by hazardous substances

SECTION 14: Transport information

General statements

14.1. UN number n.a. Transport by road/by rail (ADR/RID) 14.2. UN proper shipping name:
14.3. Transport hazard class(es):

n.a. 14.4. Packing group:
14.4. Packing group:
Classification code:
LQ:
14.5. Environmental hazards:
Tunnel restriction code: n.a. n.a. n.a. Not applicable

Transport by sea (IMDG-code)

14.2. UN proper shipping name: 14.3. Transport hazard class(es): n.a. 14.4. Packing group:
Marine Pollutant:
14.5. Environmental hazard

n.a Not applicable

Transport by air (IATA)

14.2. UN proper shipping name:
14.3. Transport hazard class(es): n.a. 14.4. Packing group: 14.5 Environmental hazards Not applicable

14.6. Special precautions for user

rwise, general measures for safe transport must be followed.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code Non-dangerous material according to Transport Regulations

SECTION 15: Regulatory information

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

Observe restrictions:

Coserve 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

4,4'-methylenediphenyl diisocyanate

o-(p-isocyanatobenzyllphenyl isocyanate
Diphenylmethanediisocyanate, isomeres and homologues
2,2"-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.

Directive 2010/75/EU (VOC):

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections:

2 15

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

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

Classification in accordance with regulation (EC) No. 1272/2008 (CLP)	Evaluation method used
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).

H351 Suspected of causing cancer by inhalation.

H331 May cause damage to organs through prolonged or repeated exposure by inhalation. H315 Causes skin irritation. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H324 Harmful if inhaled.

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

H335 May cause respiratory irritation

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

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)
Adsorbable organic halogen compounds

approx approximately 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

BAM

Testing, Germany) Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health

BAuA

and Safety, Germany)
BSEF The International Bromine Council BSEF

but 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)

carcinogenic, mutagenic, reproductive toxic Derived Minimum Effect Level Derived No Effect Level CMR

DMEL

DNEL dw

dry weight for example (abbreviation of Latin 'exempli gratia'), for instance

e.g. EC European Community European Chemicals Agency ECHA

European Economic Community
European Economic Community
European Inventory of Existing Commercial Chemical Substances
European List of Notified Chemical Substances
European Norms

EEC EINECS ELINCS EN

EPA United States Environmental Protection Agency (United States of America)

etc. EU et cetera European Union

Ethylene-vinyl alcohol copolymer Fax number

EVAL Fax.

gen. GHS general
Globally Harmonized System of Classification and Labelling of Chemicals

GWP Global warming potential



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(COSMOPUR 819) (COSMOPUR 819 schwarz) (COSMOPUR 819 grau) (COSMOPUR 819 C)

International Agency for Research on Cancer

IATA International Air Transport Association
IBC (Code) International Bulk Chemical (Code)
IMDG-code International Maritime Code for Dangerous Goods

incl. IUCLID

International Maritime Code for Dangerous Goods including, inclusive International Uniform Chemical Information Database International Union for Pure Applied Chemistry Lethal Concentration to 50 % of a test population Lethal Dose to 50% of a test population (Median Lethal Dose) IUPAC LC50 LD50

Limited Quantities

LQ MARPOL

International Convention for the Prevention of Marine Pollution from Ships not applicable not available

n.a. n.av. n.c. n.d.a. OECD not checked

not checked
not checked
no data available
Organisation for Economic Co-operation and Development
organic
persistent, bioaccumulative and toxic
Polyethylene
Predicted No Effect Concentration PE PNEC

PNEC Predicted No Effect Concentration parts per million parts per

VOC

Volatile organic compounds very persistent and very bioaccumulative wet weight vPvB

The statements made here should describe the product with regard to the necessary safety precautions - they

are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge. No responsibility. These statements were made by:

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