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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 19.10.2022 / 0015

Revision date / version: 19.1.0.202 / 001 Replacing version dated / version: 23.03.2022 / 0014 Valid from: 19.10.2022 PDF print date: 19.10.2022 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)

#### 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 COSMO® PU-100.390** 

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

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

Relevant identified uses of the substance or mixture:

Uses advised against:

No information available at present.

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

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

1.4 Emergency telephone number

Emergency information services / official advisory body:

Telephone number of the company in case of emergencies:

+49 (0) 700 / 24 112 112 (WIC) +1 872 5888271 (WIC)

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) 1272/2008 (CLP) Hazard class Hazard category Hazard statement

Eye Irrit. 2 H319-Causes serious eye irritation. STOT SE 3 H335-May cause respiratory irritation. 2 H315-Causes skin irritation Skin Irrit Resp. Sens. H334-May cause allergy or asthma 1 symptoms or breathing difficulties if inhaled. Skin Sens. H317-May cause an allergic skin reaction. Carc. 2 H351-Suspected of causing cancer. STOT RE H373-May cause damage to organs through 2 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

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 OTHER NAZATOS

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

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

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

#### **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

3.2	Mixtu	res

OLE IMIXIATOO	
Propylene carbonate	
Registration number (REACH)	01-2119537232-48-XXXX
Index	607-194-00-1
EINECS, ELINCS, NLP, REACH-IT List-No.	203-572-1
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)
Specific Concentration Limits and ATE	Skin Irrit. 2, H315: >=5 %
	Eye Irrit. 2, H319: >=5 %
	Resp. Sens. 1, H334: >=0,1 %
	STOT SE 3, H335: >=5 %

	010102 0,11000. >=0 /0
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)
Specific Concentration Limits and ATE	Skin Irrit. 2, H315: >=5 %
	Eye Irrit. 2, H319: >=5 %
	Resp. Sens. 1, H334: >=0,1 %
İ	STOT SE 3, H335: >=5 %
	ΔTF (as inhalation, Δerosol): 1.5 mg/l/4h

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)
Specific Concentration Limits and ATE	Skin Irrit. 2, H315: >=5 %
	Eye Irrit. 2, H319: >=5 %
	Resp. Sens. 1, H334: >=0,1 %
	STOT SE 3, H335: >=5 %

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	

2,2'-methylenediphenyl diisocyanate	
Registration number (REACH)	01-2119927323-43-XXXX
Index	615-005-00-9



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COSMO® PU-100.131 COSMO® PU-100.132 COSMO® PU-100 140

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

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
	inhalation)
Specific Concentration Limits and ATE	Skin Irrit. 2, H315: >=5 %
•	Eye Irrit. 2, H319: >=5 %
	Resp. Sens. 1, H334: >=0,1 %
	STOT SE 3, H335: >=5 %
	ATE (as inhalation, Aerosol): 1.5 mg/l

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

The substances named in this section are given with their actual, appropriate classification!

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

#### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

First-aiders should ensure they are protected!

Never pour anything into the mouth of an unconscious person!

#### Inhalation

Remove person from danger area.
Supply person with fresh air and consult doctor according to symptoms

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

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

#### Eye 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 hour 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 aero 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 Foam

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)

#### 5.3 Advice for firefighters

For personal protective equipment see Section 8. In case of fire and/or explosion do not breathe fumes. Protective respirator with independent air supply.

According to size of fire

Recording to size of the Full protection, if necessary.

Cool container at risk with water.

Dispose of contaminated extinction water according to official regulations

#### **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures 6.1.1 For non-emergency personnel

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

prevent contamination.

Ensure sufficient ventilation, remove sources of ignition.

Avoid dust formation with solid or powder products.

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

Ensure sufficient supply of air.

Avoid inhalation, and contact with eyes or skin.

If applicable, caution - risk of slipping.

6.1.2 For emergency responders

#### See section 8 for suita able protective equipment and material specifications. 6.2 Environmental precautions

Resolve leaks if this possible without risk.
Prevent surface and ground-water infiltration, as well as ground penetration.
Prevent from entering drainage system.
If accidental entry into drainage system occurs, inform responsible authorities.

#### 6.3 Methods and material for containment and cleaning up

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous eadispose of according to Section 13.

Allow to stand for a few days in an unclosed container until reaction no longer occurs. is earth, sawdust) and

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**

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

### 7.1 Precautions for safe handling

#### 7.1.1 General recommendations

Ensure good ventilation. Avoid inhalation of the vapours

If applicable, suction measures at the workstation or on the processing machine necessary.

in applicable, souton measures at the workstation of 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.

Stole product cases 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

(GB) Chemical Name 4,4'-methylenediphenyl diisocyanate						
TVEL-TWA: 0,02 mg/m3 (Iso	WEL-TWA: 0,02 mg/m3 (Isocyanates,		m3 (Isocyanates,			
all (as -NCO))		all (as -NCO))				
Monitoring procedures:		ISO 16702 (Workplace air	quality - determina	ation of total		
		isocyanate groups in air us	sing 2-(1-methoxypl	henylpiperazine and		
	-	liquid chromatography) - 2	007			
		MDHS 25/4 (Organic isocy	anates in air - Lab	oratory method using		
		sampling either onto 2-(1-i	methoxyphenylpipe	razine coated glass		
		fibre filters followed by sol	vent desorption or i	nto impingers and		
	analysis using high performance liquid chromatography) - 2015 -					
	-	<ul> <li>EU project BC/CEN/ENTR/000/2002-16 card 7-4 (2004)</li> </ul>				
	_	NIOSH 5521 (ISOCYANATES, MONOMERIC) - 1994				
	- NIOSH 5522 (ISOCYANATES) - 1998					
	-	NIOSH 5525 (ISOCYANA		)) - 2003		
	_	OSHA 18 (Diisocvanates 2				
	- OSHA 47 (Methylene Bisphenyl Isocyanate (MDI)) - 1984					
BMGV: 1 µmol isocyanate-d						
(At the end of the period of ex			(Isocyanates, all			
(			(1000) an ionico, an	(35 115 5))		
GB Chemical Name	o-(p-isocy	ranatobenzyl)phenyl isocyar	nate	·		

l	WEL-TWA: 0,02 mg/m3 (Iso	cyanates,	WEL-STEL:	0,07 mg/r	m3 (Isocyanates,	
l	all (as -NCO))		all (as -NCO)	)		
ł	Monitoring procedures:					
	BMGV: 1 µmol isocyanate-derived diamine/mol creatinine in urine Other information: Se				n: Sen	
	(At the end of the period of exposure) (Isocyanates, all (a			(as -NCO))		
	(GB) Chemical Name Diphenylmethanediisocyanate, isomeres and homologues					

	WEL-TWA: 0,02 mg/m3 (Isocyanates,	WEL-STEL: 0,07 mg/i	m3 (Isocyanates,		
	all (as -NCO))	all (as -NCO))			
	Monitoring procedures:				
	BMGV: 1 µmol isocyanate-derived diamin	e/mol creatinine in urine	Other information	n: Sen	
1	(At the end of the period of exposure)		(Isocyanates, all	(as -NCO))	

Chemical Name Titanium dioxide (in powder form containing 1 % or more of				of	
	particles v	vith aerodynamic o	diameter <=	= 10 µm)	
WEL-TWA: 10 mg/m3 (total inhalable WEL-STEL:					
dust), 4 mg/m3 (respirable dust)					
Monitoring procedures:					
GV:				Other information	n:
	L-TWA: 10 mg/m3 (total it), 4 mg/m3 (respirable dus	L-TWA: 10 mg/m3 (total inhalable t), 4 mg/m3 (respirable dust) nitoring procedures:	particles with aerodynamic of L-TWA: 10 mg/m3 (total inhalable t), 4 mg/m3 (respirable dust)   WEL-STEL: t), 4 mg/m3 (respirable dust)   WEL-STEL: t)   WEL-	particles with aerodynamic diameter <	particles with aerodynamic diameter <= 10 µm)  L-TWA: 10 mg/m3 (total inhalable   WEL-STEL: total total

(GB) Chemical Name 2,2'-methylenediphenyl diisocyanate							
WEL-TWA: 0,02 mg/m3 (Iso	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-d	BMGV: 1 µmol isocyanate-derived diamine/mol creatinine in urine Other information						
(At the end of the period of ex	(as -NCO))						
(GB) Chemical Name	4,4'-methy	lenediphenyl diisocyanate					

WEL-TWA: 0,02 mg/m3 (Isocyanates,	WEL-STEL: 0,07 mg/m3 (Isocyanates,	
all (as -NCO))	all (as -NCO))	
Monitoring procedures:	ISO 16702 (Workplace air quality - determina	ition of total
	isocyanate groups in air using 2-(1-methoxypl	nenylpiperazine and
-	liquid chromatography) - 2007	



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

> MDHS 25/4 (Organic isocyanates in air – Laboratory method using MDHs 25/4 (Organic isocyanates in air – Laboratory method usin-sampling either onto 2(1-methoxyphenylipperazine coated glass fibre filters followed by solvent desorption or into impingers and analysis using high performance liquid chromatography) - 2015 -EU project BC/CEN/ENTR/000/2002-16 card 7-4 (2004) NIOSH 5521 (ISOCYANATES, MONOMERIC) - 1994 NIOSH 5522 (ISOCYANATES) - 1998 NIOSH 5525 (ISOCYANATES, TOTAL (MAP)) - 2003 OSHA 18 (Discovanates 2 4-TI) and MDI) - 1980

OSHA 18 (Diisocyanates 2,4-TDl and MDl) - 1980
OSHA 47 (Methylene Bisphenyl Isocyanate (MDl)) - 1984
ne/mol creatinine in urine
Other information: Sen
(Isocyanates, all (as -NCO))

BMGV: 1 µmol isocyanate-derived diam (At the end of the period of exposure) | Chemical Name | Silicon dioxide | WEL-TWA: 6 mg/m3 (total inh. dust), | WEL-STEL: ---

2,4 mg/m3 (resp. dust)			
Monitoring procedures:			
BMGV:		Other information	n:
		•	
(GB) Chemical Name	o-(p-isocyanatobenzyl)phenyl isocy	anate	·
WEL-TWA: 0,02 mg/m3 (Isocya	anates, WEL-STEL: 0,07 mg	/m3 (Isocyanates,	
all (as -NCO))	all (as -NCO))		
Monitoring procedures:			
BMGV: 1 µmol isocyanate-deri	ved diamine/mol creatinine in urine	Other information	n: Sen
/At the end of the medeal of some	,		( 1100))

(At the end of the period of exp	(At the end of the period of exposure)				(as -NCO))
(GB) Chemical Name	Calcium c	arbonate			
WEL-TWA: 4 mg/m3 (respira	able dust),	WEL-STEL:			
10 mg/m3 (total inhalable dust	)				
Monitoring procedures:					

Monitoring procedures:					
BMGV:				Other information	n:
(GB) Chemical Name				eres and homologue	S
WEL-TWA: 0,02 mg/m3 (Iso	cyanates,	WEL-STEL:	0,07 mg/r	m3 (Isocyanates,	
all (as -NCO))	-	all (as -NCO))			
Monitoring procedures:					
BMGV: 1 µmol isocyanate-d	erived diamin	e/mol creatinine	in urine	Other information	n: Sen
(At the end of the period of ex	posure)			(Isocyanates, all	(as -NCO))

Area of application	Exposure route /	Effect on	Descri	Valu	Unit	Note
	Environmental compartment	health	ptor	e		
	Environment -		PNEC	9	mg/l	
	sporadic				•	
	(intermittent) release					
	Environment -		PNEC	0,09	mg/l	
	marine					
	Environment -		PNEC	0,08	mg/l	
	sediment, marine			3		
	Environment - soil		PNEC	0,81	mg/l	
	Environment - freshwater		PNEC	0,9	mg/l	
	Environment -		PNEC	0,83	mg/l	
	sediment, freshwater					
	Environment -		PNEC	740	mg/l	
	sewage treatment			0		
Consumer	plant Human - oral	Long term,	DNEL	10		
Consumer	numan - orai	systemic effects	DINEL	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 /	Human - inhalation	Long term,	DNEL	176	mg/m3	
employees		systemic effects				
Workers /	Human - dermal	Long term,	DNEL	20	mg/kg	
employees		systemic effects	1	1		1

DNEL

20

mg/m3

Human - inhalation

employees Workers /

employees

Area of application	Exposure route / Environmental compartment	Effect on health	Descri ptor	Valu e	Unit	Not
	Environment - freshwater		PNEC	3,7	μg/l	
	Environment - marine		PNEC	0,37	μg/l	
	Environment - sewage treatment plant		PNEC	1	mg/l	
	Environment - soil		PNEC	2,33	mg/kg dw	
	Environment - sporadic (intermittent) release		PNEC	37	μg/l	
	Environment - sediment, freshwater		PNEC	11,7	mg/kg dry weight	
	Environment - sediment, marine		PNEC	1,17	mg/kg dry weight	
Consumer	Human - oral	Short term, systemic effects	DNEL	20	mg/kg bw/day	

systemic effects
Long term,
local effects

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/day	
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, local effects	DNEL	28,7	mg/cm 2	
Workers / employees	Human - dermal	Short term, systemic effects	DNEL	50	mg/kg bw/day	
Workers / employees	Human - inhalation	Short term, local effects	DNEL	0,1	mg/m3	
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	0,1	mg/m3	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	0,05	mg/m3	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	0,05	mg/m3	

Area of application	Exposure route / Environmental compartment	Effect on health	Descri ptor	Valu e	Unit	Note
	Environment - freshwater		PNEC	1	mg/l	
	Environment -		PNEC	0,1	mg/l	
	Environment - sewage treatment plant		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,	DNEL	0,05	mg/m3	

Titanium dioxide (in powder form containing 1 % or more of particles with aerodynamic diameter <= 10 μm)										
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					

2,2'-methylenediphenyl diisocyanate										
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 plant		PNEC	1	mg/l					
	Environment - soil		PNEC	1	mg/kg dw					
	Environment - water, sporadic (intermittent) release		PNEC	10	mg/l					
Consumer	Human - oral	Short term, systemic effects	DNEL	20	mg/kg bw/d					



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(COSMOPUR 819)

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

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, systemic effects	DNEL	0,05	mg/m3	
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, local effects	DNEL	28,7	mg/cm 2	
Workers / employees	Human - dermal	Short term, systemic effects	DNEL	50	mg/kg bw/d	
Workers / employees	Human - inhalation	Short term, local effects	DNEL	0,1	mg/m3	
Workers / employees	Human - inhalation	Short term, systemic 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	eyl diisocyanate 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 - 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	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,	DNEL	0,05	mg/m3	

Area of application	yl)phenyl isocyanate Exposure route /	Effect on	Descri	Valu	Unit	Note
Area or application	Environmental compartment	health	ptor	e	O.I.I.	14010
	Environment - freshwater		PNEC	1	mg/l	
	Environment - marine		PNEC	0,1	mg/l	
	Environment - soil		PNEC	1	mg/kg dry weight	
	Environment - sewage treatment plant		PNEC	1	mg/l	
Consumer	Human - dermal	Short term, systemic effects	DNEL	25	mg/kg body weight/ day	
Consumer	Human - inhalation	Short term, systemic effects	DNEL	0,05	mg/m3	
Consumer	Human - oral	Short term, systemic effects	DNEL	20	mg/kg body weight/ day	
Consumer	Human - dermal	Short term, local effects	DNEL	17,2	mg/cm 2	
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/day	
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 /	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				
Consumer	Human - inhalation	Short term,	DNEL	0,05	mg/m3	
		systemic effects				
Consumer	Human - inhalation	Long term,	DNEL	0,02	mg/m3	
		local effects		5		
Consumer	Human - inhalation	Long term,	DNEL	0,02	mg/m3	
		systemic effects		5		
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/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				
Workers /	Human - inhalation	Long term,	DNEL	0,05	mg/m3	
employees		local effects				
Workers /	Human - inhalation	Long term,	DNEL	0,05	mg/m3	
employees		systemic effects				
Workers /	Human - dermal	Short term,	DNEL	28,7	mg/cm	
employees		local effects			2	
Workers /	Human - dermal	Short term,	DNEL	50	mg/kg	
employees		systemic effects			bw/d	

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) E140. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).

(8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (11) = Inhalable fraction (Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg CQT ceratinine in urine (Directive 2004/37/CE). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period).

(Directive 2004/3//CE). | WEL-STEL = WORKPIAGE EXPOSURE LIMIT - GROUPERING SPASSION IN THE REPORT OF THE WORLD AND THE PROPERTY OF THE WORLD AND THE WORLD A

the goal of revision.

(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.

Applies only if maximum permissible exposure values are listed nere.

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

These are specified by e.g. EN 14042.

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

### 8.2.2 Individual protection measures, such as personal protective equipment

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

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

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

Protective nitrile gloves (EN ISO 374).

Minimum layer thickness in mm:
>= 0,35

Permeation time (penetration time) in minutes:

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

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

Skin protection - Other:

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

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



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Thermal hazards: Not applicable

Additional information on hand protection - No tests have been performed. In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents. Selection of materials derived from glove manufacturer's indications. Final selection of glove material must be made taking the breakthrough times, permeation rates and

degradation into account.

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

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

before use.

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed

#### 8.2.3 Environmental exposure controls

No information available at present

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

There is no information available on this parameter. There is no information available on this parameter There is no information available on this parameter. 
There is no information available on this parameter

There is no information available on this parameter There is no information available on this parameter. Substance reacts with water.

There is no information available on this parameter.

Does not apply to mixtures.

There is no information available on this parameter.

1,52 g/cm3 (relative density)
There is no information available on this parameter.
Does not apply to liquids.

# 9.1 Information on basic physical and chemical properties

Paste, liquid. According to specification

Odour: Characteristic

Melting point/freezing point:
Boiling point or initial boiling point and boiling range:
Flammability:
Lower explosion limit:
Upper explosion limit:
Flank point:

Flash point:

Auto-ignition temperature:
Decomposition temperature:

pH: Kinematic viscosity:

Solubility:

Partition coefficient n-octanol/water (log value): Vapour pressure:

Vapour pressure:
Density and/or relative density:
Relative vapour density:
Particle characteristics:

9.2 Other information

No information available at present.

Acute toxicity, by inhalation:	ATE	>20	mg/l/ 4h	Vapours, calculated value
Skin	<b>†</b>			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.

Symptoms:						n.d.a.
Propylene carbonate						
Toxicity / effect	Endpo int	Value	Unit	Organis m	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/k g	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	>2000	mg/k g	Rabbit	OECD 402 (Acute Dermal 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)	Irritant
Respiratory or skin sensitisation:				Human being	,	No (skin contact)
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative
Germ cell mutagenicity:					OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative
Germ cell mutagenicity:					OECD 482 (Gen. Tox DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells In Vitro)	Negative
Carcinogenicity:				Mouse	OECD 451 (Carcinogenicity Studies)	Negative
Reproductive toxicity:	NOAE L	1000	mg/k g	Rat	OECD 414 (Prenatal Developmental Toxicity Study)	Negative
Aspiration hazard: Symptoms:						No breathing
зупринь.						difficulties, headaches gastrointe tinal disturbanc
						s, dizziness, nausea
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOEL	>5000	mg/k g		OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)	
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOEC	100	mg/m 3		OECD 413 (Subchronic Inhalation Toxicity - 90-Day Study)	Dust, Mist

4,4'-methylenedipheny	4,4'-methylenediphenyl diisocyanate								
Toxicity / effect	Endpo	Value	Unit	Organis	Test method	Notes			
Acute toxicity, by oral	int LD50	>2000	mg/k	m Rat	Regulation (EC)	Analogous			
route:	LD30		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	0,368	mg/l/ 4h	Rat	OECD 403 (Acute Inhalation Toxicity)	Aerosol, Does not conform with EU classificatio n.			
Acute toxicity, by inhalation:	LC50	1,5	mg/l/ 4h			Aerosol, Expert judgement.			
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosio n)	Skin Irrit. 2, Analogous conclusion			
Respiratory or skin sensitisation:				Guinea pig		Yes (inhalation)			
Respiratory or skin sensitisation:				Mouse	OECD 429 (Skin Sensitisation - Local Lymph Node Assay)	Skin Sens. 1			

Study)

#### **SECTION 10: Stability and reactivity**

Insoluble

#### 10.1 Reactivity

#### 10.2 Chemical stability

Stable with proper storage and handling.

10.3 Possibility of hazardous reactions

Exothermic reaction possible with: Alcohols Amines

Bases Acids

Water

Developement of:
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.

10.5 Incompatible materials

Alcohols

10.6 Hazardous decomposition products

No decomposition when used as directed

### **SECTION 11: Toxicological information**

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008
Possibly more information on health effects, see Section 2.1 (classification).
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Toxicity / effect	Endpo	Value	Unit	Organis	Test method	Notes
	int			m		
Acute toxicity, by oral						n.d.a.
route:						
Acute toxicity, by						n.d.a.
dermal route:						



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(COSMOPUR 819)
(COSMOPUR 819 Schwarz)
(COSMOPUR 819 C)

Germ cell mutagenicity:				Salmonel la typhimuri um	OECD 471 (Bacterial Reverse Mutation Test) OECD 474	Negative, Analogous conclusion
mutagenicity:				Rat	(Mammalian Erythrocyte Micronucleus Test)	Negativem ale
Germ cell mutagenicity:				Rat	OECD 489 (In Vivo Mammalian Alkaline Comet Assay)	Negativem ale
Carcinogenicity:				Rat	OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies)	Aerosol, Analogous conclusion, Carc. 2
Reproductive toxicity:	NOAE L	4-12	mg/m 3	Rat	OECD 414 (Prenatal Developmental Toxicity Study)	Aerosol, Analogous conclusion
Specific target organ toxicity - single exposure (STOT-SE), inhalative:						May cause respiratory irritation.
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 conclusion, Target organ(s): respiratory system
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 conclusion, Target organ(s): respiratory system

o-(p-isocyanatobenzyl) Toxicity / effect	Endpo	Value	Unit	Organis	Test method	Notes
TOXICITY / CITECT	int	value	O I III	m	restilletilou	Notes
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 judgemen
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 n.
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 conclusion 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 conclusion, 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 conclusion, Target organ(s): respiratory system

					oniony oragino)	respiratory system
Diphenylmethanediiso	cvanata ico	mores and l	homologue	ne .		
Toxicity / effect	Endpo int	Value	Unit	Organis m	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/k g	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	>5000	mg/k g	Rabbit	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	0,31- 0,49	mg/l/ 4h	Rat	OECD 403 (Acute Inhalation Toxicity)	Aerosol, Does not conform with EU classificatio n.
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)	Eye Irrit. 2
Respiratory or skin sensitisation:				Mouse	OECD 429 (Skin Sensitisation - Local Lymph Node Assay)	Yes (skin contact), Analogous conclusion
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Yes (skin contact)
Respiratory or skin sensitisation:				Rat		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
Reproductive toxicity:	NOAE L	4	mg/m 3	Rat	OECD 414 (Prenatal Developmental Toxicity Study)	Aerosol, Negative
Carcinogenicity:				Rat	OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies)	Aerosol, Limited evidence of a carcinogeni c effect.
Specific target organ toxicity - single exposure (STOT-SE), inhalative:						Target organ(s): respiratory system, May cause respiratory irritation.
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:						Target organ(s): respiratory system
Symptoms:						breathing difficulties
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 conclusion
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 conclusion

Toxicity / effect	Endpo	Value	Unit	Organis	Test method	Notes
	int			m		
Acute toxicity, by oral	LD50	>5000	mg/k	Rat	OECD 425	
route:			g		(Acute Oral	
			-		Toxicity - Up-	
					and-Down	
					Procedure)	
Acute toxicity, by	LD50	>5000	mg/k	Rabbit	, and the second	
dermal route:			g			
Acute toxicity, by	LC50	>6,8	mg/l/	Rat		
inhalation:			4h			
Skin				Rabbit	OECD 404	Not irritan
corrosion/irritation:					(Acute Dermal	
					Irritation/Corrosio	
					n)	



Analogous

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COSMO® PU-100.131 OECD 453 Carcinogenicity: Rat COSMO® PU-100.131 COSMO® PU-100.132 COSMO® PU-100 140 (COSMOPUR 819) (COSMOPUR 819 schwarz) (COSMOPUR 819 grau) (COSMOPUR 819 C) Serious eye Rabbit OECD 405 Not irritant, damage/irritation: (Acute Eye Irritation/Corrosio Mechanical irritation possible. OECD 429 (Skin Respiratory or skin Mouse sensitizisin g sensitisation: Sensitisation -Local Lymph Node Assay) OECD 406 (Skin Respiratory or skin Guinea No (skin sensitisation:
Germ cell
mutagenicity: Sensitisation) pig Mouse (Mammalian Erythrocyte Micronucleus Test) OECD 473 (In Germ cell Mammali Negative Vitro Mammalian Chromosome mutagenicity: Aberration Test) (Ames-Test) Germ cell Salmone Negative la typhimuri OECD 476 (In Germ cell Negative mutagenicity: Vitro Mammalian Cell Gene Mutation Test) OECD 471 Negative Germ cell mutagenicity: (Bacterial Reverse Mutation Test) OECD 414 Reproductive toxicity Rat (Prenatal Developmental indications (Developmental toxicity): of such an Toxicity Study) effect. Not irritant Specific target organ toxicity - single exposure (STOT-SE): Symptoms: (respiratory tract). membrane irritation. coughing, respiratory distress, drying of the skin. 3500 Specific target organ NOAE mg/k g/d Rat toxicity - repeated exposure (STOT-RE), oral: Specific target organ NOAE C 90d Rat mg/m toxicity - repeated exposure (STOT-RE), inhalat.: 2,2'-methylenediphenyl diisocyanate
Toxicity / effect Endpo Value Unit Test method Organis Notes int LD50 m Rat Acute toxicity, by oral Regulation (EC) 440/2008 B.1 (ACUTE ORAL >2000 Analogous conclusion TOXICITY) OECD 402 LD50 >9400 Acute toxicity, by mg/k Rabbit Analogous conclusion dermal route: (Acute Dermal Toxicity) OECD 403 Acute toxicity, by inhalation: LC50 0,527 Aerosol, Does not mg/l 4h (Acute Inhalation Toxicity) conform with EU classification Acute toxicity, by inhalation: ATE 1,5 Aerosol, Expert mg/ judgement Skin Irrit. 2 OECD 404 Rabbit (Acute Dermal Irritation/Corrosio corrosion/irritation: n) OECD 405 Slightly Serious eye damage/irritation: (Acute Eye Irritation/Corrosio irritant Respiratory or skin sensitisation: pig Analogous conclusion
Yes (skin contact) OECD 429 (Skin Respiratory or skin sensitisation: Mouse Node Assay) OECD 471 Germ cell Salmonel Negative mutagenicity: (Bacterial typhimuri Reverse Mutation Test)
OECD 474
(Mammalian
Erythrocyte um Rat Germ cell Negative,

Analogous conclusion

Micronucleus

Test)

mutagenicity:

Carcinogenicity:				Rat	OECD 453 (Combined Chronic Toxicity/Carcinog	Analogous conclusion, Aerosol, Carc. 2
Reproductive toxicity:	NOAE	4-12	mg/m	Rat	enicity Studies) OECD 414	No
	L		3		(Prenatal Developmental Toxicity Study)	indications of such an effect., Aerosol,
Symptoms:						Analogous conclusion respiratory
супропо.						distress, coughing, mucous membrane irritation
Specific target organ toxicity - repeated	NOAE	0,2	mg/m 3	Rat	OECD 453 (Combined	Aerosol, Target
exposure (STOT-RE), inhalat.:	L		3		Chronic Toxicity/Carcinog enicity Studies)	organ(s): respiratory system, Analogous conclusion
Specific target organ toxicity - repeated	LOAE L	1	mg/m 3	Rat	OECD 453 (Combined	Aerosol, Target
exposure (STOT-RE), inhalat.:					Chronic Toxicity/Carcinog enicity Studies)	organ(s): respiratory system, Analogous conclusion
4,4'-methylenediphenyl						
Toxicity / effect	Endpo int	Value	Unit	Organis m	Test method	Notes
Acute toxicity, by oral route:	LD50	>10000	mg/k g	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by oral route:	LD50	>2000	mg/k g	Rat	Regulation (EC) 440/2008 B.1 (ACUTE ORAL TOXICITY)	
Acute toxicity, by dermal route:	LD50	>9400	mg/k g	Rabbit	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	>2,24	mg/l/ 4h	Rat	OECD 403 (Acute Inhalation Toxicity)	Aerosol
Acute toxicity, by inhalation:	LC50	0,368	mg/l/ 4h	Rat	OECD 403 (Acute Inhalation Toxicity)	Does not conform with EU classificatio n.
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosio n)	Irritant, Analogous conclusion
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosio n)	Irritant, Analogous conclusion
Respiratory or skin sensitisation:				Mouse	OECD 429 (Skin Sensitisation - Local Lymph Node Assay)	Yes (skin contact), Analogous conclusion
Respiratory or skin sensitisation:				Guinea pig	nede / issay)	Yes (inhalation)
Germ cell mutagenicity:				Rat	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative, Analogous conclusion
Reproductive toxicity:	NOAE L	4	mg/m 3	Rat	OECD 414 (Prenatal Developmental	Negative, Analogous conclusion
Carcinogenicity:					Toxicity Study) OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies)	Analogous conclusion, Limited evidence of a carcinogeni
Symptoms:						c effect. respiratory
						distress, coughing, mucous membrane irritation
Specific target organ toxicity - single exposure (STOT-SE), inhalative:						Irritation of the respiratory tract
Specific target organ toxicity - single exposure (STOT-SE), inhalative:						Irritation of the respiratory tract, Target organ(s): respiratory system
Silicon dioxide Toxicity / effect	Endpo	Value	Unit	Organis	Test method	Notes
Acute toxicity, by oral	int LD50	>5000	mg/k	m Rat	OECD 423	
route:		. 2.00	g		(Acute Oral Toxicity - Acute Toxic Class	
Acute toxicity, by	LD50	> 2000	mg/k	Rat	Method) OECD 402	



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Skin corrosion/irritation:	Rabbi	it OECD 404 (Acute Dermal Irritation/Corrosio n)	Not irritant
Serious eye damage/irritation:	Rabbi	it OECD 405 (Acute Eye Irritation/Corrosio n)	Not irritant
Germ cell mutagenicity:		OECD 471 (Bacterial Reverse Mutation Test)	Negative
Aspiration hazard:			No

o-(p-isocyanatobenzyl) Toxicity / effect	Endpo	Value	Unit	Organis	Test method	Notes
. O. Oily / Circuit	int	ruiuc	0	m	. cot motilou	.10103
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		Does not conform with EU classificat 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 Analogou conclusio
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 carcinoge c effect.
Reproductive toxicity:					OECD 414 (Prenatal Developmental Toxicity Study)	Negative
Symptoms:						asthmatic symptoms mucous membrand irritation
Specific target organ toxicity - single exposure (STOT-SE), inhalative:						Target organ(s): respiratory tract, Irritant

Calcium carbonate						
Toxicity / effect	Endpo	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, administere d as Ca- lactate

Reproductive toxicity:			Negative,
			administere
			d as Ca-
			carbonate

			<u> </u>			d as Ca- carbonat
Diphenylmethanediiso Toxicity / effect	cyanate, isc Endpo	meres and I Value	nomologue Unit	es Organis	Test method	Notes
	int			m ¯		
Acute toxicity, by oral route:	LD50	>10000	mg/k g	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	>9400	mg/k g	Rabbit	OECD 402 (Acute Dermal	
Acute toxicity, by inhalation:	LC50	0,49	mg/l/ 4h	Rat	Toxicity) OECD 403 (Acute Inhalation Toxicity)	Aerosol, Does not conform with EU classifica n.
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosio n)	Skin Irrit.
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosio n)	Mild irrita
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Yes (skir contact)
Respiratory or skin sensitisation:				Rat	D 1 (50)	Yes (inhalatio
Germ cell mutagenicity:				Salmonel la typhimuri um	Regulation (EC) 440/2008 B.13/B.14 (REVERSE MUTATION TEST USING BACTERIA)	Analogoi conclusio Negative
Germ cell mutagenicity:				Rat	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative Analogou conclusion
Carcinogenicity:		1	mg/m 3	Rat	OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies)	Positive
Reproductive toxicity (Developmental toxicity):		4	mg/m 3	Rat	OECD 414 (Prenatal Developmental Toxicity Study)	Negative
Reproductive toxicity (Effects on fertility):				Rat	OECD 414 (Prenatal Developmental Toxicity Study)	Negative
Reproductive toxicity:	NOAE L	12	mg/m 3	Rat	OECD 414 (Prenatal Developmental Toxicity Study)	Negative Aerosol
Specific target organ toxicity - single exposure (STOT-SE):					TOXICITY Study)	Irritation the respirato 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: Symptoms:						No fever, coughing headach nausea and vomiting dizziathing difficultie laryngea
Specific target organ toxicity - single exposure (STOT-SE),						oedema, abdomin pain, diarrhoea Target organ(s): respirato
inhalative:						organs, May cau respirato irritation.

### 11.2. Information on other hazards

11.2. Information
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Toxicity / effect	Endpo	Value	Unit	Organis	Test method	Notes
	int			m		
Endocrine disrupting						Does not
properties:						apply to
						mixtures.
Other information:						No other
						relevant
						information
						available
						on adverse
			1			effects on
						health.



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

### **SECTION 12: Ecological information**

Possibly more information on environmental effects, see Section 2.1 (classification).
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Toxicity / effect	Endpoin t	Tim e	Valu e	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:							n.d.a.
12.1. Toxicity to daphnia:							n.d.a.
12.1. Toxicity to algae:							n.d.a.
12.2. Persistence and degradability:							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 date, polycarbanide is inert and non-degradable
12.3. Bioaccumulative potential:							n.d.a.
12.4. Mobility in soil:							n.d.a.
12.5. Results of PBT and vPvB assessment							n.d.a.
12.6. Endocrine disrupting properties:							Does not apply to mixtures.
12.7. Other adverse effects:							No information available on other adverse effects on the environmen t.
Other information:							DOC- elimination degree(co mplexing organic substance) >= 80%/28d: No
Other information:	AOX		0	%			According to the recipe, contains no AOX.

Propylene carbonate											
Toxicity / effect	Endpoin t	Tim e	Valu e	Unit	Organism	Test method	Notes				
12.1. Toxicity to fish:	LC50	96h	>10 00	mg/l	Cyprinus caprio	92/69/EC					
12.1. Toxicity to daphnia:	EC50	48h	>10 00	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisati on Test)					
12.1. Toxicity to algae:	EC50	72h	>90 0	mg/l	Desmodesm us subspicatus	OECD 201 (Alga, Growth Inhibition Test)					

12.2. Persistence and degradability:			83,5 -87- 7	%		OECD 301 B (Ready Biodegradab ility - Co2 Evolution Test)	Readily biodegrada ble29d
12.2. Persistence and degradability:	DOC	14d	90- 100	%		OEĆD 301 A (Ready Biodegradab ility - DOC Die-Away Test)	
12.3. Bioaccumulative potential:	Log Pow		0,48				Bioaccumul ation is unlikely (LogPow < 1)., calculated value
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Toxicity to bacteria:	EC10	16h	740 0	mg/l	Pseudomon as putida	DIN 38412 T.8	
Other information:	AOX		0	%	·		Does not contain any organically bound halogens which can contribute to the AOX value in waste water.

							water.
4,4'-methylenedip	henyl diisocy	anate					
Toxicity / effect	Endpoin t	Tim e	Valu e	Unit	Organism	Test method	Notes
Other information:							According to experience available to date, polycarbam ide is inert and non-degradable With water at the interface, transforms slowly with formation of CO2 into a firm, insoluble reaction product with a high melting point (polycarba mids).
12.4. Mobility in	Н		0,02	Pa*m			mide).
soil: 12.1. Toxicity to fish:	(Henry) LC50	96h	29 >10 00	3/mol mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity Test)	Analogous conclusion
12.2. Persistence and degradability:		28d	0	%		OECD 302 C (Inherent Biodegradab ility - Modified MITI Test (II))	Not biodegrada bie, 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 date, polycarbam ide is inert and non-degradable 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 daphnia:	NOEC/N OEL	21d	>10	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisati on Test)	Analogous conclusion



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Revision date / version: 19.10.2022 / 0015 28d OECD 302 Persistence and C (Inherent biodegrada degradability Biodegradab ble. Revision date / Version: 18.10.2022 / 0015 Replacing version dated / Version: 23.03.2022 / 0014 Valid from: 19.10.2022 PDF print date: 19.10.2022 COSMO® PU-100.130 ility -Modified MITI Test Analogous conclusion, According (II)) experience COSMO® PU-100.131 available to date, polycarbam ide is inert COSMO® PU-100.132 COSMO® PU-100 140 (COSMOPUR 819) (COSMOPUR 819 schwarz) and nondegradable ...With (COSMOPUR 819 grau) (COSMOPUR 819 C) water at the interface, 12.3. Log Pow 5,22 A notable Bioaccumulative biological transforms potential: accumulati slowly with formation on potential has to be of CO2 into a firm, expected insoluble (LogPow > reaction product 3). Analogous conclusion 12.1. Toxicity to ErC50 72h OFCD 201 with a high melting point (Alga, Growth Inhibition algae: (polycarba Test) mide). Not to be 12.3 BCF 28d 200 Cyprinus caprio Not to be 12.3 BCF 28d 200 Cyprinus caprio OECD 305 Chem. Data Sheet (ESIS) expected, Analogous conclusion Bioaccumulative potential: Bioaccumulative 12.5. Results of Fish Test) 12.4. Mobility in 0.02 Pa\*m PBT and vPvB substance, No vPvB soil: 12.5. Results of PBT and vPvB (Henry) 3/mol No PBT Other information: substance, No vPvB AOX contain assessment organically bound halogens which can substance EC50 OECD 209 Toxicity to 3h >10 0 mg/l activated Analogous conclusion (Activated Sludge, Respiration Inhibition contribute to the AOX Test value in (Carbon waste water. and Ammonium EC50 3h >10 OECD 209 Toxicity to mg/l activated Analogous Oxidation)) OECD 208 NOEC/N OEL (Activated Sludge, Respiration Inhibition Other organisms: 14d Avena sativa >10 00 mg/k Analogous bacteria: sludge conclusion (Terrestrial Plants, Test) OECD 208 Other organisms: >10 00 Analogous mg/k and OEL g sativa (Terrestrial conclusion Ammonium Plants. Growth Test) OECD 207 Oxidation)) OECD 208 Lactuca sativa Analogous conclusion Other organisms NOEC/N mg/k g (Terrestrial Plants, NOEC/N Toxicity to >10 00 Analogous mg/k (Earthworm Growth Acute Test) OECD 208 Toxicity Other organisms: NOEC/N 14d Avena sativa Analogous conclusion Diphenylmethanediisocyanate, isomeres and homologues
Toxicity / effect | Endpoin | Tim | Valu | Unit | Organism Notes Growth Test) OECD 207 method OECD 208 NOEC/N NOEC/N Toxicity to 14d mg/k Lumbricus Analogous Other organisms mg/k (Terrestrial Plants, Growth annelids OEL 100 (Earthworm Acute Toxicity Tests) OECD 207 Test) OECD 203 EC50 Toxicity to 14d Analogous LC0 96h >10 00 >10 mg/k Eisenia 12.1. Toxicity to mg/l Brachydanio 00 (Earthworm, (Fish, Acute Toxicity Toxicity Tests) Test) OECD 211 12.1. Toxicity to NOEC/N 21d mg/l Daphnia >=1 0 daphnia: OEL magna (Daphnia o-(p-isocyanatobenzyl)phenyl isocyanate
Toxicity / effect | Endpoin | Tim magna
Reproductio
n Test)
OECD 202 Valu Unit Organism Test Notes **e** >10 00 LC50 EC50 12.1. Toxicity to Analogous 12.1. Toxicity to >10 00 mg/l Daphnia mg/ rerio (Fish. Acute conclusion daphnia: magna (Daphnia Toxicity sp. Acute Immobilisati Test) OECD 202 >10 00 on Test) OECD 201 12.1. Toxicity to EC50 24h Danhnia Analogous ErC50 Scenedesm (Daphnia sp. Acute conclusion 12.1. Toxicity to mg/l daphnia: magna (Alga, Growth Inhibition algae: subspicatus . Immobilisati on Test) OECD 202 >10 Analogous 12.1. Toxicity to NOEC/N 21d Daphnia (Daphnia sp. Acute Immobilisati magna on Test) OECD 201 12.1. Toxicity to ErC50 72h >16 mg/l Scenedesm Analogous (Alga, Growth Inhibition Test)



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12.2. Persistence and degradability:		28d	0	%	activated sludge	OECD 302 C (Inherent Biodegradab ility - Modified MITI Test (II))	Not biodegrada ble, According to experience available to date, polycarbam ide is inert and non-degradable ., With water at the interface, transforms slowly with for OraCo into a firm, insoluble reaction product with a high meltling point (polycarba mide).
12.3. Bioaccumulative potential:	BCF	42d	<14		Cyprinus carpio	OECD 305 (Bioconcentr ation - Flow- Through Fish Test)	Not to be expected
12.5. Results of PBT and vPvB assessment							No vPvB substance, No PBT 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	Lactuca sativa	OECD 208 (Terrestrial Plants, Growth Test)	
Toxicity to annelids:	NOEC/N OEL	14d	>10 00	mg/k g	Lumbricus terrestris	OECD 207 (Earthworm, Acute Toxicity Tests)	

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

Water solubility:							Insoluble20 °C
2,2'-methylenedip							
Toxicity / effect	Endpoin t	Tim e	Valu e	Unit	Organism	Test method	Notes
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
12.4. Mobility in soil:	H (Henry)		0,02 29	Pa*m 3/mol			
12.1. Toxicity to fish:	LC50	96h	>10 00	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute	Analogous conclusion
						Toxicity Test)	
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)	Analogous conclusion
12.2. Persistence and degradability:		28d	0	%	activated sludge	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 date, polycarbaride is inert and nondegradable Analogous
12.3. Bioaccumulative potential:	Log Pow		5,22				A notable biological accumulat on potential has to be expected (LogPow >
12.3. Bioaccumulative potential:	BCF	28d	200		Cyprinus caprio	OECD 305 (Bioconcentr ation - Flow- Through	3). Not to be expected, Analogous conclusion
Toxicity to bacteria:	EC50	3h	>10	mg/l	activated sludge	Fish Test) 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
4 41 matheday - "	hamul dii					10010)	
4,4'-methylenedip Toxicity / effect	henyl diisocy Endpoin	anate Tim	Valu	Unit	Organism	Test	Notes
	t	е	е		1	method	

4,4'-methylenediphenyl diisocyanate								
Toxicity / effect	Endpoin	Tim	Valu	Unit	Organism	Test	Notes	
-	t	е	е		_	method		
12.1. Toxicity to	LC50	96h	>10	mg/l	Brachydanio	OECD 203		
fish:			00		rerio	(Fish, Acute		
						Toxicity		
						Test)		
12.1. Toxicity to	LC0	96h	>10	mg/l	Brachydanio	OECD 203	Analogous	
fish:			00		rerio	(Fish, Acute	conclusion	
						Toxicity		
						Test)		
12.1. Toxicity to	EC50	24h	>10	mg/l	Daphnia	OECD 202	Analogous	
daphnia:			00	_	magna	(Daphnia	conclusion	
•						sp. Acute		
						Immobilisati		
						on Test)		
							•	



GB Page 12 of 14 EC50 OECD 209 Toxicity to mg/l activated Analogous Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 19.10.2022 / 0015 (Activated Sludge, Respiration Inhibition sludge conclusion Revision date / version: 19.1.0.202 / 001 Replacing version dated / version: 23.03.2022 / 0014 Valid from: 19.10.2022 PDF print date: 19.10.2022 COSMO® PU-100.130 Test (Carbon COSMO® PU-100.131 and Ammonium Oxidation)) COSMO® PU-100.132 COSMO® PU-100 140 Other information: contain (COSMOPUR 819) (COSMOPUR 819 schwarz) any organically bound halogens which can (COSMOPUR 819 grau) (COSMOPUR 819 C) 12.1. Toxicity to 72h 1,5 OECD 201 mg/l contribute to the AOX algae: (Alga, Growth value in Inhibition waste Test) OECD 20 EC50 EC50 12.1. Toxicity to 72h Analogous Toxicity to mg/k Eisenia mg/ 100 algae: (Alga, Growth conclusion annelids foetida (Earthworm, subspicatus Àcute Inhibition Toxicity Test) OECD 201 NOEC/I 12.1. Toxicity to 72h 164 0 Desmodesr Analogous conclusion mg/ (Alga, Growth Inhibition Silicon dioxide Toxicity / effect algae Notes subspicatus Endpoin Tim Valu Unit Organism Test method OECD 203 (Fish, Acute Toxicity 12.1. Toxicity to EC0 961 Test) OECD 302 12.2 28d activated With water rerio Persistence and degradability: sludge C (Inherent Biodegradab at the interface, Test) OECD 202 ility -Modified MITI Test EC0 12.1. Toxicity to transforms 24h >10 00 mg/l Daphnia (Daphnia sp. Acute Immobilisati slowly with formation of CO2 into a firm, insoluble on Test) OECD 201 12.1. Toxicity to ErC50 72h mg/l Scenedesm >=1 000 (Alga, Growth Inhibition reaction algae: product subspicatus with a high melting point (polycarba Test) Inorganic Persistence and products mide). degradability: cannot be According eliminated from water experience through biological available to date, purification polycarbam ide is inert methods. 12.5. Results of PBT and vPvB and non-degradable substance BOD 28d 0 OECD 302 . With water C (Inherent Biodegradab ility -Modified MITI Test Persistence and at the interface, o-(p-isocyanatobenzyl)phenyl isocyan Toxicity / effect Endpoin Tim Valu degradability Unit Organism Notes transforms slowly with formation of CO2 method OECD 203 **e** 96h 12.1. Toxicity to Brachydanio Analogous mg/l 100 (Fish, Acute Toxicity fish: rerio conclusion (II)) into a firm. Test) OECD 202 insoluble reaction product 12.1. Toxicity to EC50 >10 00 mg/l Daphnia Analogous (Daphnia daphnia: magna conclusion sp. Acute Immobilisati with a high on Test) OECD 202 melting NOEC/N OEL point 12.1. Toxicity to 21d Analogous conclusion mg/l Daphnia (polycarba mide)., According (Daphnia sp. Acute daphnia magna . Immobilisati on Test) OECD 201 experience >16 40 12.1. Toxicity to FrC50 72h mg/l Scenedesm Analogous available (Alga, Growth conclusion to date, polycarbam ide is inert algae: us subspicatus Inhibition Test) OECD 302 and non-280 With wate C (Inherent Biodegradab at the interface, degradable Persistence and degradability: Cyprinus BCF 28d 200 OECD 305 A notable ility -Modified transforms Bioaccumulative (Bioconcentr ation - Flowbiological accumulati slowly with potential MITI Test formation of CO2 into a firm, insoluble Through on (II)) potential has to be expected (LogPow > Fish Test) reaction product with a high OECD 117 Log Pow A notable melting point (polycarba 4,51 -5,2 Bioaccumulative (Partition biological potential: Coefficient accumulati (n-octanol/wate r) - HPLC on potential has to be mide)., Analogous Not to be expected, method) expected BCF 28d 200 Cyprinus caprio OECD 305 (Bioconcentration - Flow-Through (LogPow > potential: 3). No PBT Analogous conclusion 12.5. Poculte of PBT and vPvB substance, No vPvB Fish Test) 12.5. Results of PBT and vPvB assessment No PRT substance substance EC50 OECD 209 Toxicity to 3h mg/l activated No vPvB substance Analogous EC50 3h OECD 209 Toxicity to >10 0 mg/l activated sludge (Activated conclusion Sludge, Respiration Inhibition Inhibition Test (Carbon and Ammonium Test (Carbon Oxidation)) and Ammonium



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

Other organisms:	NOEC/N OEL	14d	>10 00		Lumbricus terrestris	OECD 207 (Earthworm, Acute Toxicity Tests)	Analogous conclusion
------------------	---------------	-----	-----------	--	-------------------------	--	-------------------------

 Calcium carbonate

 Toxicity / effect
 Endpoin
 Tim
 Valu
 Unit
 Organism
 Test

Toxilon, Tolloon	t	е	e	· · · · ·	o.gao	method	110.00
Toxicity to bacteria:	EC50	3h	>10 00	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) OECD 207	Negative
annelids:					foetida	(Earthworm, Acute Toxicity Tests)	Negative
12.1. Toxicity to daphnia:	EC50	48h	>10 0	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisati on Test)	
12.1. Toxicity to fish:	LC50	96h	>10 0	mg/l	Oncorhynch us mykiss	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to fish:	LC50	96h	>10 000	mg/l	Oncorhynch us mykiss		
12.1. Toxicity to	EC50	48h	>10	mg/l	Daphnia		
daphnia: 12.1. Toxicity to algae:	EC50	72h	>20 0	mg/l	magna Desmodesm us subspicatus		
12.1. Toxicity to algae:	EC50	72h	>14	mg/l	Desmodesm us subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:							Inorganic products cannot be eliminated from water through biological purification methods.
12.3. Bioaccumulative potential:							Not relevant for inorganic substances
12.4. Mobility in soil:							Not relevant for inorganic substances
12.5. Results of PBT and vPvB assessment							Not relevant for inorganic substances

Dinhanulmathana	Diphenylmethanediisocyanate, isomeres and homologues							
Toxicity / effect Endpoin Tim Valu Unit Organism Test Notes								
TOXICITY / ETIECT	t	e	e	UIII	Organism	method	Notes	
12.5. Results of		e	e			memou	No PBT	
PBT and vPvB							substance.	
assessment							No vPvB	
							substance	
12.1. Toxicity to	LC50	96h	>10	mg/l	Brachydanio	OECD 203		
fish:			00		rerio	(Fish, Acute		
						Toxicity		
						Test)		
12.1. Toxicity to	NOEC/N	21d	>=	mg/l	Daphnia	OECD 211		
daphnia:	OEL		10		magna	(Daphnia		
						magna		
						Reproductio		
40.4 7	5050	0.11	- 10			n Test)		
12.1. Toxicity to	EC50	24h	>10	mg/l	Daphnia	OECD 202		
daphnia:			00		magna	(Daphnia		
						sp. Acute Immobilisati		
12.2.		28d	0	%	activated	on Test) OECD 301	Not	
Persistence and		200	"	70	sludge	C (Ready	biodegrada	
degradability:					Siduge	Biodegradab	hle	
acgradability.						ility -	DIC	
						Modified		
						MITI Test (I))		
L	-				l	/ 001 (1))		

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).
12.1. Toxicity to algae:	EC50	72h	>16 40	mg/l	Desmodesm us subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
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

Notes

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)

80 04 09 waste adhesives and sealants containing organic solvents or other hazardous substances 08 05 01 waste isocyanates Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

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

For contaminated packing material
Pay attention to local and national official regulations.
Empty container completely.

Uncontaminated packaging can be recycled.

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

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

#### General statements

14.1. UN number or ID number:

Transport by road/by rail (ADR/RID) Not applicable

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

Transport by sea (IMDG-code)
14.2. UN proper shipping name:
14.3. Transport hazard class(es):
14.4. Packing group:
Marine Pollutant: n.a. Not applicable n.a Not applicable 14.5. Environmental hazards:

Transport by air (IATA)

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

**14.6. Special precautions for user**Unless specified otherwise, general measures for safe transport must be followed.

14.7. Maritime transport in bulk according to IMO instruments

Non-dangerous material according to Transport Regulation

#### **SECTION 15: Regulatory information**

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

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

4.4'-methylenediphenyl diisocyanate o-(p-isocyanatobenzyl)phenyl isocyanate



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COSMO® PU-100.132 COSMO® PU-100 140

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

Diphenylmethanediisocyanate, isomeres and homologues

2,2'-methylenediphenyl diisocyanate
Comply with national regulations/laws governing maternity protection (national implementation of the Directive

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: 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.

H373 May cause damage to organs through prolonged or repeated exposure by inhalation.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation. H332 Harmful if inhaled.

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

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

Resp. Sens. — Respiratory sensitization Skin Sens. — Skin sensitization Carc. — Carcinogenicity

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

#### Key literature references and sources

Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) as amended. Guidelines for the preparation of safety data sheets as amended (ECHA). Guidelines on labelling and packaging according to the Regulation (EG) Nr. 1272/2008 (CLP) as amended (ECHA).

Safety data sheets for the constituent substances.

ECHA Homepage - Information about chemicals.
GESTIS Substance Database (Germany).
German Environment Agency "Rigoletto" information site on substances that are hazardous to water

(Celinary).

EU Occupation Exposure Limits Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164, (EU) 2019/1831, each as amended.

National Lists of Occupational Exposure Limits for each country as amended.

Regulations on the transport of hazardous goods by road, rail, sea and air (ADR, RID, IMDG, IATA) as

#### 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)
AOS Adsorbable organic halogen compounds

approx.

Art., Art. no.Article number
ASTM ASTM International (American Society for Testing and Materials)

BAM

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

Testing, Germany)
BAuA Bundesan:
and Safety, Germany) sanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health

Bioconcentration factor BCF

**BSEF** The International Bromine Council body weight Chemical Abstracts Service bw CAS

Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification,

CLP Classification, Labelling and Packaging (rk labelling and packaging of substances and mixtures)
CMR carcinogenic, mutagenic, reproductive toxic
DMEL Derived Minimum Effect Level
DOC Dissolved organic carbon

dw dry weight

ory weight
for example (abbreviation of Latin 'exempli gratia'), for instance
t, EbLx (x = 10, 50)

Effect Concentration/Level of x % on reduction of the biomass e.g. for example (abbre EbCx, EyCx, EbLx (x = 10, 50)

EbCx, EyCx, EbLx (x = 10, 50) Effect Concentration/Level of x % on reducing apparents

EC European Community

ECH, European Chemicals Agency

ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect

EC European Economic Community

EINECS

ELINCS EN EPA

European Lorinomo Commonico Existing Commercial Chemical Substances European List of Notified Chemical Substances European Norms
United States Environmental Protection Agency (United States of America)

ErCx. EuCx. ErLx (x = 10, 50) Effect Concentration/Level of x % on inhibition of the growth rate

(algae, plants) etc. et et cetera

EU EVAL Fax. European Union Ethylene-vinyl alcohol copolymer Fax number

general

gen. GHS

general
Globally Harmonized System of Classification and Labelling of Chemicals
Global warming potential
Adsorption coefficient of organic carbon in the soil
octanol-water partition coefficient
International Agency for Research on Cancer
International Air Transport Association
International Bulk Chemical (Code)
International Maritime Code for Dangerous Goods
including inclusive. GWP Koc Kow IARC IATA IBC (Code) IMDG-code

incl. including, inclusive
International Uniform Chemical Information Datab International Union for Pure Applied Chemistry **IUPAC** 

Lethal Concentration to 50 % of a test population
LD50 Lethal Dose to 50% of a test population (Median Lethal Dose)
Log Kox
Logarithm of adsorption coefficient of organic carbon in the so
Log Kow, Log Pow Logarithm of octanol-water partition coefficient
LQ Limited Quantities

MARPOL International Convention for the Prevention of Marine Pollution from Ships

n.a. not applicable n.av. n.c. n.d.a. NIOSH not applicable not checked no data available National Institute for Occupational Safety and Health (USA)

NLP

No-longer-Polymer

NOEC. NOEL No Observed Effect Concentration/Level OECD Organisation for Economic Co-operation and Development organic
Occupational Safety and Health Administration (USA)

persistent, bioaccumulative and toxic Polyethylene Predicted No Effect Concentration PBT PNEC

Predicted No Elect Concentration parts per million Polyvinylchloride Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No

NEACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (E.) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)
REACH-IT List-No. 9x-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS
No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.

RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)

SVHC Substances of Very High Concern

Tel. Telephone TOC

Total organic carbon
United Nations Recommendations on the Transport of Dangerous Goods
Volatile organic compounds

UN RTDG VOC vPvB

very persistent and very bioaccumulative wet weight

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

not meant to quarantee definite characteristics - but they are based on our present up-to-date knowledge. No responsibility

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