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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 19.10.2022 / 0014

Revision date / version: 19.1.0.2022 / 0.014 Replacing version dated / version: 01.02.2022 / 0013 Valid from: 19.10.2022 PDF print date: 19.10.2022 COSMO® PU-100.250

(COSMOPUR Rapid)

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-100.250

(COSMOPUR Rapid)

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 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)

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

2.2 Label elements

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





Danger

H373-May cause damage to organs through prolonged or repeated exposure. H319-Cause 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.

P201-Obtain special instructions before use. P260-Do not breathe vapours or spray. P280-Wear protective gloves / protective clothing and eye protection / face protection. P284-Wear respiratory

protection.

P302+P352-IF ON SKIN: Wash with plenty of water and soap. P304+P340-IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313-IF exposed or concerned: Get medical advice / attention.

EUH204-Contains isocyanates. May produce an allergic reaction.

As from 24 August 2023 adequate training is required before industrial or professional use. Diphenylmethanediisocyanate, isomeres and homologues 4,4'-methylenediphenyl diisocyanate Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl

2.3 Other hazards

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

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3.2 Mixtures	
Diphenylmethanediisocyanate, isomeres and	
homologues	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	
CAS	9016-87-9
content %	10-25
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
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 %
4,4'-methylenediphenyl diisocyanate	
Registration number (REACH)	01-2119457014-47-XXXX
Index	615-005-00-9

01-2119457014-47-XXXX
615-005-00-9
202-966-0
101-68-8
1-<10
Acute Tox. 4, H332
Skin Irrit. 2, H315
Eye Irrit. 2, H319
Resp. Sens. 1, H334
Skin Sens. 1, H317
Carc. 2, H351
STOT SE 3, H335
STOT RE 2, H373 (respiratory system) (as
inhalation)
Skin Irrit. 2, H315: >=5 %
Eye Irrit. 2, H319: >=5 %
Resp. Sens. 1, H334: >=0,1 %
STOT SE 3, H335: >=5 %

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 %	1-5
Classification according to Regulation (EC) 1272/2008	Eye Irrit. 2, H319
(CLP), M-factors	

Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate	
Registration number (REACH)	01-2119457015-45-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	905-806-4
CAS	
content %	1-5
Classification according to Regulation (EC) 1272/2008	Acute Tox. 4, H332
(CLP), M-factors	Skin Irrit. 2, H315
	Eye Irrit. 2, H319
	Skin Sens. 1, H317
	Resp. Sens. 1, H334
	Carc. 2, H351
	STOT SE 3, H335
	STOT RE 2, H373 (respiratory system) (as
	inhalation)
Specific Concentration Limits and ATE	Skin Irrit. 2, H315: >=5 %
·	Eye Irrit. 2, H319: >=5 %
	Resp. Sens. 1, H334: >=0,1 %
	STOT SE 3, H335: >=5 %

2,2'-Dimorpholinyl diethyl ether	
Registration number (REACH)	01-2119969278-20-XXXX
Index	***
EINECS, ELINCS, NLP, REACH-IT List-No.	229-194-7
CAS	6425-39-4
content %	0,1-2,5
Classification according to Regulation (EC) 1272/2008	Eye Irrit. 2, H319
(CLP), M-factors	

Titanium dioxide (in powder form containing 1 % or more of particles with aerodynamic diameter <= 10 μm)	
Registration number (REACH)	01-2119489379-17-XXXX
Index	022-006-002
EINECS, ELINCS, NLP, REACH-IT List-No.	236-675-5
CAS	13463-67-7
content %	0,1-<1
Classification according to Regulation (EC) 1272/2008	Carc. 2, H351 (as inhalation)
(CLP), M-factors	

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.



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(COSMOPUR Rapid)

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 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 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

High volume water jet

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Oxides of carbon Oxides of nitrogen

Oxides of Hardystell Boocyanates Hydrocyanic acid (hydrogen cyanide) Toxic gases Danger of bursting (explosion) when heated

5.3 Advice for firefighters
For personal protective equipment see Section 8.
In case of fire and/or explosion do not breathe fumes.

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 6.1.1 For non-emergency personnel

In case of spillage or accidental release, wear personal prevent contamination.

Ensure sufficient ventilation, remove sources of ignition. Avoid dust formation with solid or powder products. ase, wear personal protective equipment as specified in section 8 to

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 respondersSee section 8 for suitable protective equipment and material specifications.

6.2 Environmental precautions

If leakage occurs, dam up. Resolve leaks if this possible without risk

Prevent surface and ground-water infiltration, as well as ground penetration.

Prevent from entering drainage system.

If accidental entry into drainage system occurs, inform responsible authorities

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

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.

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

GB Chemical Name

8.1 Control parameter	s					
(GB) Chemical Name		nethanediisocyanate, isome	eres and homologue	es		
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		ne/mol creatinine in urine	Other information			
(At the end of the period of ex	oosure)		(Isocyanates, all	(as -NCO))		
GB Chemical Name	4,4'-methy	/lenediphenyl diisocyanate				
WEL-TWA: 0,02 mg/m3 (Iso		WEL-STEL: 0,07 mg/r	m3 (Isocyanates,			
all (as -NCO))	,	all (as -NCO))	(, ,			
Monitoring procedures:		ISO 16702 (Workplace air	quality - determina	ation of total		
		isocyanate groups in air u	sing 2-(1-methoxyp	henylpiperazine and		
	-	liquid chromatography) - 2				
		MDHS 25/4 (Organic isoc				
		sampling either onto 2-(1-				
		fibre filters followed by sol				
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 (ISOCYANA		۱۱ ۵۵۵۵		
	-	NIOSH 5525 (ISOCYANA OSHA 18 (Diisocyanates 2				
	-					
BMGV: 1 µmol isocyanate-d	orived diamir	OSHA 47 (Methylene Bisp	Other information			
(At the end of the period of ex		ie/moi creatimine in unite	(Isocyanates, all			
(At the end of the period of ex	Josuie)		(130Cyariates, aii	(as -1400))		
(GB) Chemical Name	Reaction	mass of 4,4'-methylenediph	enyl diisocyanate a	nd o-(p-		
	isocyanate	obenzyl)phenyl isocyanate	,			
WEL-TWA: 0,02 mg/m3 (Iso	cyanates,	WEL-STEL: 0,07 mg/i	m3 (Isocyanates,			
all (as -NCO))		all (as -NCO))				
Monitoring procedures:				<u> </u>		
BMGV: 1 µmol isocyanate-d		ne/mol creatinine in urine	Other information			
(At the end of the period of ex	oosure)		(Isocyanates, all	(as -NCO))		

VVEL-1VVA: 10 mg/m3 (total innalable	WEL-SIEL:		
dust), 4 mg/m3 (respirable dust)			
Monitoring procedures:			
BMGV:		Other information	n:
	ylenediphenyl diisocyanate		
WEL-TWA: 0,02 mg/m3 (Isocyanates,	WEL-STEL: 0,07 mg/i	m3 (Isocyanates,	
all (as -NCO))	all (as -NCO))		
Monitoring procedures:	ISO 16702 (Workplace air	quality - determina	ition of total
	isocyanate groups in air u	sing 2-(1-methoxypl	nenylpiperazine and
-	liquid chromatography) - 2	007	
	MDHS 25/4 (Organic isoc	anates in air - Lab	oratory method using
	sampling either onto 2-(1-	methoxyphenylpipe	razine coated glass
	fibre filters followed by sol		

Titanium dioxide (in powder form containing 1 % or more of

particles with aerodynamic diameter <= 10 µm)

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 5522 (ISOCYANATES, TOTAL (MAP)) - 2003 - OSHA 18 (Diisocyanates 2,4-TD and MDI) - 1980 - OSHA 47 (Methylene Bisphenyl Isocyanate (MDI)) - 1984 - OSHA 47 (Methylene Bisphenyl Isocyanate (MDI)) - 1984 - OSHA 47 (Methylene Bisphenyl Isocyanate (MDI)) - 1984 - OSHA 47 (Methylene Bisphenyl Isocyanate (MDI)) - 1984 - OSHA 47 (Methylene Bisphenyl Isocyanate (MDI)) - 1984 - OSHA 47 (Methylene Bisphenyl Isocyanate (MDI)) - 1984 - OSHA 47 (Methylene Bisphenyl Isocyanate (MDI)) - 1984 - OSHA 47 (Methylene Bisphenyl Isocyanate (MDI)) - 1984 - OSHA 47 (Methylene Bisphenyl Isocyanate (MDI)) - 1984 - OSHA 47 (Methylene Bisphenyl Isocyanate (MDI)) - 1984 - OSHA 47 (Methylene Bisphenyl Isocyanate (MDI)) - 1984 - OSHA 47 (METHYLENE BISPHENYLENE) - OSHA 47 (METHYLENE BISPHENYLENE BISPHENY

(Isocyanates, all (as -NCO)) (At the end of the period of exposure)

(GB) 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:

Calcium carbonate
WEL-STEL: (GB) Chemical Name Calcium
WEL-TWA: 4 mg/m3 (respirable dust),
10 mg/m3 (total inhalable dust) Monitoring procedures: BMGV: ---Other information: GB Chemical Name Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-

isocyanatobenzyl)phenyl isocyanate

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

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 - water, sporadic (intermittent) release		PNEC	10	mg/l	
	Environment - sewage treatment plant		PNEC	1	mg/l	



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	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	

Area of application	Exposure route /	Effect on	Descri	Valu	Unit	Note
	Environmental	health	ptor	e	-	
	compartment					
	Environment -		PNEC	3,7	μg/l	
	freshwater					
	Environment -		PNEC	0,37	μq/l	
	marine					
	Environment -		PNEC	1	mg/l	
	sewage treatment				-	
	plant					
	Environment - soil		PNEC	2,33	mg/kg	
					dw	
	Environment -		PNEC	37	μg/l	
	sporadic					
	(intermittent) release					
	Environment -		PNEC	11,7	mg/kg	
	sediment, freshwater				dry	
					weight	
	Environment -		PNEC	1,17	mg/kg	
	sediment, marine				dry	
					weight	
Consumer	Human - oral	Short term,	DNEL	20	mg/kg	
		systemic effects			bw/day	
Consumer	Human - dermal	Short term,	DNEL	17,2	mg/cm	
_		local effects	D.L.E.	0.5	2	
Consumer	Human - dermal	Short term,	DNEL	25	mg/kg	
_		systemic effects	D.L.E.	0.05	bw/day	
Consumer	Human - inhalation	Short term,	DNEL	0,05	mg/m3	
Consumer	Human - inhalation	local effects	DNEL	0.05		
Consumer	Human - Innalation	Short term,	DNEL	0,05	mg/m3	
Consumer	Human - inhalation	systemic effects Long term,	DNEL	0.02	mg/m3	
Consumer	numan - innaiation	local effects	DNEL	5	mg/ms	
Consumer	Human - inhalation	Long term,	DNEL	0,02	mg/m3	
Consumer	Human - Imiaation	systemic effects	DINEL	5	mg/ms	
Workers /	Human - dermal	Short term.	DNEL	28.7	mg/cm	
employees	Tidilian delilia	local effects	DIVLE	20,7	2	
Workers /	Human - dermal	Short term.	DNEL	50	mg/kg	
employees	Tidilian delilia	systemic effects	DIVLE	00	bw/day	
Workers /	Human - inhalation	Short term.	DNEL	0.1	mg/m3	
employees		local effects	5	•,.	g,5	
Workers /	Human - inhalation	Short term.	DNEL	0,1	mg/m3	
employees		systemic effects	5	•,.	g,5	
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		-,		

Propylene carbonate						
Area of application	Exposure route / Environmental compartment	Effect on health	Descri ptor	Valu e	Unit	Not
	Environment - sporadic (intermittent) release		PNEC	9	mg/l	
	Environment - marine		PNEC	0,09	mg/l	
	Environment - sediment, marine		PNEC	0,08 3	mg/l	
	Environment - soil		PNEC	0,81	mg/l	
	Environment - freshwater		PNEC	0,9	mg/l	
	Environment - sediment, freshwater		PNEC	0,83	mg/l	
	Environment - sewage treatment plant		PNEC	740 0	mg/l	
Consumer	Human - oral	Long term, systemic effects	DNEL	10	mg/kg	
Consumer	Human - dermal	Long term, systemic effects	DNEL	10	mg/kg	
Consumer	Human - inhalation	Long term, local effects	DNEL	10	mg/m3	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	17,4	mg/m3	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	70,5 3	mg/kg	

Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	176	mg/m3	
			51.51		,	
Workers /	Human - dermal	Long term,	DNEL	20	mg/kg	
employees		systemic effects				
Workers /	Human - inhalation	Long term,	DNEL	20	mg/m3	
employees		local effects			_	

Area of application	Exposure route /	Effect on	Descri	Valu	Unit	Note
	Environmental compartment	health	ptor	е		
	Environment - freshwater		PNEC	37	μg/l	
	Environment - marine		PNEC	0,37	μg/l	
	Environment - soil		PNEC	2,33	mg/kg	
	Environment - sewage treatment plant		PNEC	1	mg/l	
	Environment - water, sporadic (intermittent) release		PNEC	3,7	µg/l	
	Environment - sediment, freshwater		PNEC	11,7	mg/kg dry weight	
	Environment - sediment, marine		PNEC	1,17	mg/kg dry weight	
Consumer	Human - inhalation	Long term, local effects	DNEL	0,02 5	mg/m3	
Consumer	Human - inhalation	Short term, local effects	DNEL	0,05	mg/m3	
Vorkers / employees	Human - inhalation	Short term, local effects	DNEL	0,1	mg/m3	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	0,05	mg/m3	

2,2'-Dimorpholinyl di						
Area of application	Exposure route / Environmental	Effect on health	Descri ptor	Valu e	Unit	Note
	compartment	nealth	pioi	•		
	Environment -		PNEC	0.1	mg/l	
	freshwater		FINEC	0,1	IIIg/I	
	Environment -		PNEC	0.01	/I	
	marine		PINEC	0,01	mg/l	
	marine Environment -		PNEC	1	/1	
			PINEC	'	mg/l	
	sporadic					
	(intermittent) release Environment -		PNEC			
			PNEC	8,2	mg/kg	
	sediment, freshwater		BNEO	0.00		
	Environment -		PNEC	0,82	mg/kg	
	sediment, marine		BUES	4.50		
	Environment - soil		PNEC	1,58	mg/kg	
	Environment -		PNEC	100	mg/l	
	sewage treatment					
	plant					
Consumer	Human - inhalation	Long term,	DNEL	1,8	mg/m3	
		systemic effects				
Consumer	Human - dermal	Long term,	DNEL	0,5	mg/kg	
		systemic effects			bw/d	
Consumer	Human - oral	Long term,	DNEL	0,5	mg/kg	
		systemic effects			bw/d	
Workers /	Human - inhalation	Long term,	DNEL	7,28	mg/m3	
employees		systemic effects				
Workers /	Human - dermal	Long term,	DNEL	1	mg/kg	
employees		systemic effects			bw/d	

Titanium dioxide (in powder form containing 1 % or more of particles with aerodynamic diameter <= 10 μm)									
Area of application	Exposure route / Environmental	Effect on health	Descri ptor	Valu e	Unit	Note			
	compartment Environment -		PNEC	0,18	mg/l				
	freshwater Environment -		PNEC	0,01	mg/l				
	marine Environment -		PNEC	0,19	mg/l				
	water, sporadic (intermittent) release			3					
	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 / 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	



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(COSMOPUR Rapid)

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	

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).

(8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/ED, (1) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/ED, (11) = Inhalable fraction (Directive 2004/37/ED, (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatine in urine (Directive 2004/37/CE). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference particl) reference period).

reference 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 the goal of revision

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 permissione 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.

Eve/face protection:

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

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

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

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

= 480 >= 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:

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

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

Observe wearing time limitations for respiratory protection equipment.

Thermal hazards: Not applicable

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

degradation into account.

Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer. In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.

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

8.2.3 Environmental exposure controls

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

According to specification Colour:

Odour Characteristic

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

Melting point/freezing point:
Boiling point or initial boiling point and boiling range:
Flammability:
Lower explosion limit: There is no information available on this parameter. Upper explosion limit: There is no information available on this parameter. Flash point: There is no information available on this parameter.

Auto-ignition temperature: Decomposition temperature: n.a.
There is no information available on this parameter.
Mixture reacts with water.
There is no information available on this parameter.

Kinematic viscosity: Insoluble

Solubility: Partition coefficient n-octanol/water (log value): Does not apply to mixtures

Vapour pressure: Density and/or relative density: There is no information available on this parameter. ~1,51 g/cm3

There is no information available on this parameter.

Relative vapour density: Particle characteristics: Does not apply to liquids. 9.2 Other information

Product is not explosive. Explosives

Oxidising liquids: Evaporation rate:

SECTION 10: Stability and reactivity

10.1 Reactivity

10.2 Chemical stability

Stable with proper storage and handling.

10.3 Possibility of hazardous reactions

Exothermic reaction possible with

Alcohols Amines Bases Acids Water

Developement of:

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

See also section 7.
Protect from humidity.
Polymerisation due to high heat is possible.

~ 260°C

10.5 Incompatible materials

See also section 7 Acids

Bases

Water 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)

COSMO® PU-100.250

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

Diphenylmethanediiso	cyanate, isc	meres and h	omologue	es		
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 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 classificatio n.
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosio n)	Skin Irrit. 2



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Replacing version dated Valid from: 19.10.2022 PDF print date: 19.10.20 COSMO® PU-100.250		1.02.2022 / (0013			
(COSMOPUR Rapid)						
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosio n)	Mild irritar
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Yes (skin contact)
Respiratory or skin sensitisation:				Rat	Continuation	Yes (inhalation
Germ cell mutagenicity:				Salmonel	Regulation (EC) 440/2008	Analogous
mutagemony.				typhimuri um	B.13/B.14 (REVERSE MUTATION TEST USING BACTERIA)	Negative
Germ cell mutagenicity:				Rat	OECD 474 (Mammalian Erythrocyte Micronucleus	Negative, Analogous conclusion
Carcinogenicity:		1	mg/m 3	Rat	Test) OECD 453 (Combined Chronic Toxicity/Carcinog	Positive
Reproductive toxicity		4	mg/m	Rat	enicity Studies) OECD 414	Negative
(Developmental toxicity):			3	Det	(Prenatal Developmental Toxicity Study)	Nearthe
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):						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)	tract
Symptoms:						fever, coughing, headache nausea and vomiting., dizziness, breathing difficulties laryngeal oedema, abdomina pain, diarrhoea
Specific target organ toxicity - single exposure (STOT-SE), inhalative:						Target organ(s): respirator organs, May caus
						respirator irritation.
4,4'-methylenedipheny						
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)	Analogous conclusion
Acute toxicity, by dermal route:	LD50	>9400	mg/k g	Rabbit	OECD 402 (Acute Dermal Toxicity)	Analogou
Acute toxicity, by inhalation:	LC50	0,368	mg/l/ 4h	Rat	OECD 403 (Acute Inhalation Toxicity)	Aerosol, Does not conform with EU classificat n.
Acute toxicity, by inhalation:	LC50	1,5	mg/l/ 4h	Rabbit	OECD 404	Aerosol, Expert judgemen Skin Irrit.
corrosion/irritation:					(Acute Dermal Irritation/Corrosio n)	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
Germ cell mutagenicity:				Salmonel la typhimuri	OECD 471 (Bacterial Reverse	Negative, Analogou conclusio
Germ cell mutagenicity:				um Rat	Mutation Test) OECD 474 (Mammalian Erythrocyte Micronucleus	Negativer ale

Germ cell mutagenicity:				Rat	OECD 489 (In Vivo Mammalian Alkaline Comet	Negativem
Carcinogenicity:				Rat	Assay) OECD 453 (Combined	Aerosol, Analogous
					Chronic Toxicity/Carcinog enicity Studies)	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:					TOXIONY Olddy)	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
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				Human		No (skin
sensitisation: Germ cell mutagenicity:				being	OECD 471 (Bacterial Reverse Mutation Test)	contact) 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 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

Toxicity / effect	Endpo int	Value	Unit	Organis m	Test method	Notes
Acute toxicity, by oral route:	LD50	> 10000	mg/k g	Rat		
Acute toxicity, by dermal route:	LD50	> 9400	mg/k g	Rabbit		
Acute toxicity, by inhalation:	LC50	0,49	mg/l/ 4h	Rat		Mist, Dust:, Does not conform with EU classification.
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosio n)	Irritant
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Yes (inhalation and skin contact)



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Revision date / version: Replacing version dated	19.10.2022	/ 0014		70, 71111CX 11			toxicity):					Developmental Toxicity Study)	of such ar effect.
Valid from: 19.10.2022 PDF print date: 19.10.20		1.02.2022 7	5010				Specific target organ toxicity - single					TOXIONY Olddy)	Not irritan (respirato
COSMO® PU-100.250							exposure (STOT-SE): Symptoms:						tract).
(COSMOPUR Rapid)							Cymptoms.						membran irritation,
Germ cell mutagenicity:				Salmonel la	Regulation (EC) 440/2008	Negative							coughing, respirator
mutagementy.				typhimuri um	B.13/B.14 (REVERSE								distress, drying of
				diii	MUTATION TEST USING		Considirate rest error	NOAE	3500		Rat		the skin.
0				D-4	BACTERIA)	Nonethia	Specific target organ toxicity - repeated	L	3300	mg/k g/d	Nat		90d
Germ cell mutagenicity:				Rat	OECD 474 (Mammalian	Negative	exposure (STOT-RE), oral:	NOAE	40		Det		004
					Erythrocyte Micronucleus		Specific target organ toxicity - repeated	NOAE C	10	mg/m 3	Rat		90d
Carcinogenicity:				Rat	Test) OECD 453	Carc. 2	exposure (STOT-RE), inhalat.:						
					(Combined Chronic		4,4'-methylenedipheny			11-11	0	T	I Notes
					Toxicity/Carcinog enicity Studies)		Toxicity / effect	Endpo int	Value	Unit	Organis m	Test method	Notes
2,2'-Dimorpholinyl die						- N	Acute toxicity, by oral route:	LD50	>10000	mg/k g	Rat	OECD 401 (Acute Oral	
Toxicity / effect	Endpo int	Value	Unit	Organis m	Test method	Notes	Acute toxicity, by oral	LD50	>2000	mg/k	Rat	Toxicity) Regulation (EC)	
Acute toxicity, by oral route:	LD50	2025	mg/k g	Rat	OECD 401 (Acute Oral		route:			g		440/2008 B.1 (ACUTE ORAL	
Acute toxicity, by	LD50	3038	mg/k	Rabbit	Toxicity) OECD 402		Acute toxicity, by	LD50	>9400	mg/k	Rabbit	TOXICITY) OECD 402	
dermal route:			g		(Acute Dermal Toxicity)		dermal route:			g		(Acute Dermal Toxicity)	
Acute toxicity, by dermal route:	LD50	3038	mg/k g	Rat			Acute toxicity, by inhalation:	LC50	>2,24	mg/l/ 4h	Rat	OECD 403 (Acute Inhalation	Aerosol
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal	Not irritant	Acute toxicity, by	LC50	0,368	mg/l/	Rat	Toxicity) OECD 403	Does not
					Irritation/Corrosio		inhalation:			4h		(Acute Inhalation Toxicity)	conform with EU
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye	Eye Irrit. 2							classificati n.
					Irritation/Corrosio		Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal	Irritant, Analogous
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Not sensitizisin						Irritation/Corrosio	conclusion
Germ cell				F-5	OECD 471	g Negative	Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye	Irritant, Analogous
mutagenicity:					(Bacterial Reverse	rioganio	damago, maton.					Irritation/Corrosio	conclusion
Reproductive toxicity	NOAE	300	mg/k	Rat	Mutation Test) OECD 422	Negative	Respiratory or skin sensitisation:				Mouse	OECD 429 (Skin Sensitisation -	Yes (skin contact),
(Effects on fertility):	L	300	g	Ivat	(Combined Repeated Dose	ivegative	Serisiusauori.					Local Lymph Node Assay)	Analogous
					Tox. Study with		Respiratory or skin				Guinea	Node Assay)	Yes
					the Reproduction/De		sensitisation: Germ cell				pig Rat	OECD 474	(inhalation Negative
0					velopm. Tox. Screening Test)		mutagenicity:					(Mammalian Erythrocyte	
Symptoms:						watering eyes,						Micronucleus Test)	
						eyes, reddened	Germ cell mutagenicity:					OECD 471 (Bacterial	Negative, Analogous
Titanium dioxide (in po	owder form	containing 1	1 % or mor	e of particles	with aerodynamic di	ameter <= 10		Note		ļ.,		Reverse Mutation Test)	conclusion
μm) Toxicity / effect	Endpo	Value	Unit	Organis	Test method	Notes	Reproductive toxicity:	NOAE L	4	mg/m 3	Rat	OECD 414 (Prenatal	Negative, Analogous
Acute toxicity, by oral	LD50	>5000	mg/k	m Rat	OECD 425							Developmental Toxicity Study)	conclusion
route:			g		(Acute Oral Toxicity - Up-		Carcinogenicity:					OECD 453 (Combined	Analogous conclusion
					and-Down Procedure)							Chronic Toxicity/Carcinog	Limited evidence
Acute toxicity, by dermal route:	LD50	>5000	mg/k g	Rabbit								enicity Studies)	of a carcinoger
Acute toxicity, by inhalation:	LC50	>6,8	mg/l/ 4h	Rat			Symptoms:						c effect. respiratory
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal	Not irritant							distress, coughing,
					Irritation/Corrosio n)								mucous membrane
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye	Not irritant, Mechanical	Specific target organ						Irritation
· ·					Irritation/Corrosio	irritation possible.	toxicity - single exposure (STOT-SE),						the respiratory
Respiratory or skin sensitisation:				Mouse	OECD 429 (Skin Sensitisation -	Not sensitizisin	inhalative: Specific target organ						tract Irritation of
					Local Lymph Node Assay)	g	toxicity - single exposure (STOT-SE),						the respiratory
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	No (skin contact)	inhalative:						tract, Target
Germ cell mutagenicity:				Mouse	OECD 474 (Mammalian	Negative							organ(s): respiratory
matagementy.					Erythrocyte Micronucleus								system
Germ cell				Mammali	Test) OECD 473 (In	Negative	Silicon dioxide Toxicity / effect	Endpo	Value	Unit	Organis	Test method	Notes
mutagenicity:				an	Vitro Mammalian	ivegauve	Acute toxicity, by oral	int LD50	>5000	mg/k	m Rat	OECD 423	110162
					Chromosome Aberration Test)		route:	2000	~J000	g g	ivat	(Acute Oral Toxicity - Acute	
				Salmonel	(Ames-Test)	Negative						Toxic Class Method)	
Germ cell			1	la			Acute toxicity, by	LD50	> 2000	mg/k	Rat	OECD 402	
Germ cell mutagenicity:				typhimuri			dermal route:						
mutagenicity: Germ cell				typhimuri um	OECD 476 (In	Negative	dermal route:			g		(Acute Dermal Toxicity)	Net init
mutagenicity:					Vitro Mammalian Cell	Negative	Skin corrosion/irritation:				Rabbit	(Acute Dermal Toxicity) OECD 404 (Acute Dermal	Not irritant
mutagenicity: Germ cell mutagenicity:					Vitro Mammalian Cell Gene Mutation Test)		Skin corrosion/irritation:				Rabbit	(Acute Dermal Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio n)	
mutagenicity: Germ cell					Vitro Mammalian Cell Gene Mutation	Negative Negative	Skin					(Acute Dermal Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio	Not irritant



12.1. Toxicity to		е е	+		method	n.d.a.								
(COSMOPUR Rapid) Toxicity / effect E	Notes							(II))						
Possibly more informat COSMO® PU-100.250		tion 2.1 (class	ification).								ility - Modified MITI Test			
		Other information:	BOD	28d	<10	%		OECD 302 C (Inherent Biodegradab						
						effects on health.		OEL		00	g	foetida	(Earthworm, Acute Toxicity Tests)	
						information available on adverse	Other organisms:	NOEC/N	14d	>10	mg/k	Eisenia	Oxidation)) OECD 207	
Other information:			1			nixtures. No other relevant							(Carbon and Ammonium	
Endocrine disrupting properties:						Does not apply to							Respiration Inhibition Test	
oxicity / effect	Endpo int	Value	Unit	Organis m	Test method	Notes	bacteria:			0		sludge	(Activated Sludge,	
OSMO® PU-100.250							Toxicity to	EC50	3h	>10	mg/l	activated	Test) OECD 209	
1.2. Information		hazards					algae:			40		us subspicatus	(Alga, Growth Inhibition	
					Toxicity/Carcinog enicity Studies)		12.1. Toxicity to	EC50	72h	>16	mg/l	Desmodesm	OECD 201	3).
Carcinogenicity:				Rat	OECD 453 (Combined Chronic	Carc. 2								not to be expected (LogPo
					Developmental Toxicity Study)		poternian.						Through Fish Test)	on potenti
Reproductive toxicity:	NOEC	4	mg/m 3	Rat	Test) OECD 414 (Prenatal	Negative	12.3. Bioaccumulative potential:	BCF	42d	<14		Cyprinus caprio	OECD 305 (Bioconcentr ation - Flow-	A nota biologi accum
nutagenicity:					(Mammalian Erythrocyte Micronucleus	Analogous conclusion							ility - Modified MITI Test (I))	
Respiratory or skin sensitisation: Germ cell			-	Guinea pig Rat	OECD 474	Resp. Sens. 1 Negative,	Persistence and degradability:		200		/0	sludge	C (Ready Biodegradab	biodeg ble
Respiratory or skin sensitisation: Respiratory or skin				Guinea pig	OECD 406 (Skin Sensitisation)	Skin Sens. 1	12.2.		28d	0	%	activated	Immobilisati on Test) OECD 301	Not
damage/irritation:					(Acute Eye Irritation/Corrosio n)	irritant	daphnia:	2000	24[]	00	mg/l	magna	(Daphnia sp. Acute	
Serious eye				Rabbit	Irritation/Corrosio n) OECD 405	Slightly	12.1. Toxicity to	EC50	24h	>10	ma/l	Daphnia	magna Reproductio n Test) OECD 202	
nhalation: Skin corrosion/irritation:			4h	Rabbit	OECD 404 (Acute Dermal	Skin Irrit. 2	12.1. Toxicity to daphnia:	NOEC/N OEL	21d	>= 10	mg/l	Daphnia magna	Test) OECD 211 (Daphnia	
Acute toxicity, by	LC50	0,49	g mg/l/	Rat	(Acute Dermal Toxicity)	conclusion Mist, Dust:	12.1. Toxicity to fish:	2000	3011	00	mg/l	rerio	(Fish, Acute Toxicity	
route: Acute toxicity, by	LD50	> 9400	g mg/k	Rabbit	OECD 402	Analogous	assessment	LC50	96h	>10	ma/l	Brachydanio	OECD 203	No vPv substa
Acute toxicity, by oral	int LD50	> 2000	mg/k	m Rat			12.5. Results of PBT and vPvB			_				No PB
Reaction mass of 4,4' Toxicity / effect	-methylened Endpo	iphenyl diis Value	ocyanate a	nd o-(p-isocya	anatobenzyl)phenyl Test method	isocyanate Notes	Toxicity / effect	Endpoin t	Tim e	Valu e	Unit	Organism	Test method	Notes
						d as Ca- carbonate	Diphenylmethane	diisocvanate	isomere	es and be	mologues			t.
Reproductive toxicity:			+			lactate Negative, administere								effects the environ
,·						administere d as Ca-								on othe
Germ cell mutagenicity: Carcinogenicity:					in vitro	Negative Negative,	12.7. Other adverse effects:							No informa availab
Respiratory or skin sensitisation:						No (skin contact)	disrupting properties:							apply to mixture
damage/irritation:					(Acute Eye Irritation/Corrosio n)	Mechanical irritation possible.	PBT and vPvB assessment 12.6. Endocrine							Does n
Serious eye			-	Rabbit	Irritation/Corrosio n) OECD 405	Not irritant,	12.4. Mobility in soil:							n.d.a.
Skin corrosion/irritation:				Rabbit	Toxicity) OECD 404 (Acute Dermal	Not irritant	12.3. Bioaccumulative potential:							n.d.a.
Acute toxicity, by inhalation:	LC50	>3	mg/l/ 4h	Rat	Toxicity) OECD 403 (Acute Inhalation		40.0							and nor
Acute toxicity, by dermal route:	LD50	>2000	mg/k g	Rat	OECD 402 (Acute Dermal									polycar ide is ir
Acute toxicity, by oral route:	LD50	> 5000	mg/k g	Rat	Dose Procedure)									experie availab to date,
Acute toxicity, by oral route:	LD50	>2000	mg/k g	Rat	OECD 420 (Acute Oral toxicity - Fixe									mide). Accordi
Calcium carbonate Toxicity / effect	Endpo	Value	Unit	Organis m	Test method	Notes								melting point (polyca
Aspiration hazard:						No								product with a h
mutagenicity:					(Bacterial Reverse Mutation Test)	-								into a fi insolub reactior
(COSMOPUR Rapid) Germ cell					OECD 471	Negative								slowly v formation of CO2
COSMO® PU-100.250							degradability:							interfac transfor
Replacing version date Valid from: 19.10.2022 PDF print date: 19.10.2		1.02.2022 / (0013				algae: 12.2. Persistence and							With wa
	19.10.2022						12.1. Toxicity to							n.d.a.



														_	
GB) Page 8 of 11 Safety data sheet a				1907/2006	i, Annex II			12.5. Results of PBT and vPvB							No PBT substance,
Revision date / vers Replacing version of Valid from: 19.10.2	dated / versior 2022			13				Other	AOX						No vPvB substance Does not
PDF print date: 19. COSMO® PU-100.	.10.2022 .250							information:							contain any organically
(COSMOPUR Rapi	id)														bound halogens
Other information:							Does not contain any								which can contribute to the AOX
							organically bound								value in waste
							halogens which can contribute	Toxicity to bacteria:	EC50	3h	>10 0	mg/l	activated sludge	OECD 209 (Activated	water. Analogous conclusion
							to the AOX value in							Sludge, Respiration	
							waste water.							Inhibition Test (Carbon	
4,4'-methylenedip Toxicity / effect	Endpoin	Tim	Valu	Unit	Organism	Test	Notes							and Ammonium	
Other information:	t	е	е			method	According to	Other organisms:	NOEC/N OEL	14d	>10 00	mg/k g	Lactuca sativa	Oxidation)) OECD 208 (Terrestrial	Analogous conclusion
mormation.							experience available					3		Plants, Growth	
							to date, polycarbam ide is inert	Other organisms:	NOEC/N OEL	14d	>10 00	mg/k g	Avena sativa	Test) OECD 208 (Terrestrial	Analogous conclusion
							and non- degradable				-	9		Plants, Growth	
							., With water at the	Toxicity to annelids:	NOEC/N OEL	14d	> 100	mg/k g	Lumbricus terrestris	Test) OECD 207 (Earthworm,	Analogous conclusion
							interface, transforms	annends.	OLL		0	y	terrestris	Acute Toxicity	CONCIUSION
							slowly with formation	Toxicity to annelids:	EC50	14d	>10 00	mg/k	Eisenia foetida	Tests) OECD 207 (Earthworm,	Analogous conclusion
							of CO2 into a firm, insoluble	armenus.			00	g	loelida	Acute Toxicity	Conclusion
							reaction product	Propylene carbon						Tests)	
							with a high melting point	Toxicity / effect	Endpoin t	Tim e	Valu e	Unit	Organism	Test method	Notes
40.4.14.135							(polycarba mide).	12.1. Toxicity to fish:	LC50	96h	>10 00	mg/l	Cyprinus caprio	92/69/EC	
12.4. Mobility in soil: 12.1. Toxicity to fish:	H (Henry) LC50	96h	0,02 29 >10 00	Pa*m 3/mol mg/l	Brachydanio rerio	OECD 203 (Fish, Acute	Analogous conclusion	12.1. Toxicity to daphnia:	EC50	48h	>10 00	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisati	
12.2.		28d	0	%		Toxicity Test) OECD 302	Not	12.1. Toxicity to algae:	EC50	72h	>90 0	mg/l	Desmodesm us	on Test) OECD 201 (Alga,	
Persistence and degradability:		200	0	76		C (Inherent Biodegradab ility -	biodegrada ble, With water at	_					subspicatus	Growth Inhibition Test)	
						Modified MITI Test (II))	the interface, transforms slowly with formation	12.2. Persistence and degradability:			83,5 -87- 7	%		OECD 301 B (Ready Biodegradab ility - Co2 Evolution	Readily biodegrada ble29d
							of CO2 into a firm, insoluble	12.2. Persistence and	DOC	14d	90- 100	%		Test) OECD 301 A (Ready	
							reaction product	degradability:			100			Biodegradab ility - DOC	
							with a high melting point	12.3.	Log Pow					Die-Away Test)	Bioaccumul
							(polycarba mide).,	Bioaccumulative potential:	Log Fow		0,48				ation is unlikely
							According to experience								(LogPow < 1)., calculated
							available to date,	12.5. Results of							value No PBT
							polycarbam ide is inert and non-	PBT and vPvB assessment							substance, No vPvB substance
							degradable .,	Toxicity to bacteria:	EC10	16h	740 0	mg/l	Pseudomon as putida	DIN 38412 T.8	
							Analogous conclusion	Other information:	AOX		0	%	·		Does not contain
12.1. Toxicity to daphnia:	EC50	24h	>10 00	mg/l	Daphnia magna	OECD 202 (Daphnia	Analogous conclusion								any organically bound
·					· ·	sp. Acute Immobilisati									halogens which can
12.1. Toxicity to daphnia:	NOEC/N OEL	21d	>10	mg/l	Daphnia magna	on Test) OECD 202 (Daphnia	Analogous conclusion								to the AOX value in
						sp. Acute Immobilisati									waste water.
12.3. Bioaccumulative	Log Pow		5,22			on Test)	A notable biological	Reaction mass of Toxicity / effect	4,4'-methylei Endpoin	nediphen Tim	yl diisoc Valu	yanate an Unit	d o-(p-isocyanat	obenzyl)phenyl Test	isocyanate Notes
potential:							accumulati on	12.2.	t	e 28d	e	%	activated	method OECD 302	
							potential has to be expected (LogPow > 3).	Persistence and degradability:					sludge	C (Inherent Biodegradab ility - Modified	
12.1. Toxicity to algae:	ErC50	72h	>16 40	mg/l	Desmodesm us	OECD 201 (Alga,	Analogous conclusion	12.3.	BCF		200			MITI Test (II))	Not to be
					subspicatus	Growth Inhibition Test)		Bioaccumulative potential: 12.1. Toxicity to	LC50	96h		mg/l	Brachydanio	OECD 203	expected
12.3. Bioaccumulative	BCF	28d	200		Cyprinus caprio	IUCLID Chem. Data	Not to be expected	fish:	LC30	aou	> 100 0	mg/I	rerio	(Fish, Acute Toxicity	



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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
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PDF print date: 19.10.2022
COSMO® PU-100.250 (COSMOPUR Rapid) NOEC/N OEL 12.1. Toxicity to >10 Daphnia OECD 211 mg/l daphnia: magna (Daphnia magna Reproductio n Test) OECD 202 12.1. Toxicity to daphnia: EC50 24h mg/l Daphnia magna (Daphnia sp. Acute 100 Immobilisati on Test) OECD 209 Toxicity to bacteria: EC50 activated sludge 3h >10 0 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) 2,2'-Dimorpholinyl diethyl ether
Toxicity / effect Endpoin Tim Notes Valu Unit Organism Test method OECD 202 **e** 48h **e** >10 EC50 12.1. Toxicity to Daphnia mg/l (Daphnia sp. Acute Immobilisati on Test) OECD 201 daphnia: magna 12.1. Toxicity to EC50 72h >10 Selenastrum mg/l algae: capricornut um (Alga, Growth Inhibition Test) OECD 201 12.1. Toxicity to NOEC/N OEL 72h 100 mg/l (Alga, Growth Inhibition Test) OECD 203 (Fish, Acute Toxicity algae: 12.1. Toxicity to fish: LC50 96h mg/l Test) OECD 301 12.2 28d % Not readily Persistence and degradability: C (Ready Biodegradab biodegrada ble ility -Modified MITI Test (I)) OECD 117 12.3 Log Pow 0.5 Bioaccumulative potential: (Partition Coefficient (n-octanol/wate r) - HPLC method) 12.3 BCF 56d Bioaccumulative potential: Toxicity to EC50 >10 00 OECD 209 3h mg/l activated sludge (Activated Sludge, Respiration Inhibition bacteria Test (Carbon and Ammonium Oxidation)) Titanium dioxide (in powder form containing 1 % or more of particles with aerodynamic diameter <= 10 μm) Toxicity / effect Endpoin Valu Unit Notes Organism **e** >10 0 t LC50 **e** 96h 12.1. Toxicity to Oncorhynch mg/l (Fish, Acute Toxicity us mykiss Test)
OECD 202
(Daphnia
sp. Acute 12.1. Toxicity to daphnia: LC50 48h Daphnia magna mg/l . Immobilisati

on Test)

Not

relevant

inorganic substances

Not to be

Oncorhync hus mykiss

Negative

No PRT

substance

018

Pseudokirch neriella subcapitata

Escherichia

coli

12.1. Toxicity to

Persistence and

Bioaccumulative potential: 12.3.
Bioaccumulative

potential: 12.4. Mobility in

soil: 12.5. Results of

Toxicity to

bacteria

degradability:

algae:

12.2.

EC50

BCF

BCF

72h

42d

14d

16

9.6

19-352

>50

00

mg/l

Toxicity to	LC0	24h	>10	mg/l	Pseudomon	
bacteria:			000		as	
					fluorescens	
Toxicity to	NOEC/N		>10	mg/k	Eisenia	
annelids:	OEL		00	g	foetida	
Water solubility:						Insoluble20
						l °C

Water solubility:	OEL		00	g	ioelida		Insoluble20 °C
4,4'-methylenedip	henyl diisocy Endpoin	anate Tim	Valu	Unit	Organism	Test	Notes
12.1. Toxicity to fish:	t LC50	e 96h	e >10 00	mg/l	Brachydanio rerio	method OECD 203 (Fish, Acute Toxicity	
12.1. Toxicity to fish:	LC0	96h	>10 00	mg/l	Brachydanio rerio	Test) OECD 203 (Fish, Acute Toxicity 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	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 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, polycarbam ide is inert and nondegradable.
12.2. Persistence and degradability:	BOD	28d	0	%		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, polycarbamide is inert and nondegradable.
12.3. Bioaccumulative potential:	BCF	28d	200		Cyprinus caprio	OECD 305 (Bioconcentr ation - Flow- Through Fish Test)	A notable biological accumulati on potential has to be expected (LogPow > 3).
12.3. Bioaccumulative potential:	Log Pow		4,51 -5,2 2			OECD 117 (Partition Coefficient (n- octanol/wate r) - HPLC method)	A notable biological accumulati on potential has to be expected (LogPow > 3).
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance



Page 10 of 11 Safety data sheet	according to R	egulation	ı (EC) No	1907/200	6. Annex II			12.2. Persistence and							Inorganic products
Revision date / ver Replacing version	sion: 19.10.20	022 / 001	4		0,711110711			degradability:							cannot be eliminated
Valid from: 19.10.2 PDF print date: 19	2022 .10.2022														from water through
COSMO® PU-100															biological purification
(COSMOPUR Rap	•	T or	10		anti-rate d	0500.000		12.3.							Methods.
Toxicity to bacteria:	EC50	3h	>10 0	mg/l	activated sludge	OECD 209 (Activated Sludge,		Bioaccumulative potential:							relevant for inorganic
						Respiration Inhibition									substances
						Test (Carbon		12.4. Mobility in soil:							Not relevant
						and Ammonium									for inorganic
Toxicity to	EC50	3h	>10	mg/l	activated	Oxidation)) OECD 209	Analogous								substances
bacteria:			0		sludge	(Activated Sludge,	conclusion	12.5. Results of PBT and vPvB							Not relevant
						Respiration Inhibition		assessment							for inorganic
						Test (Carbon and									substances
						Ammonium Oxidation))		Reaction mass of Toxicity / effect	4,4'-methyle Endpoin	nedipher Tim	yl diisoo Valu	yanate ar Unit	d o-(p-isocyana Organism	tobenzyl)phenyl Test	isocyanate Notes
Other information:						,,	Does not contain	12.3.	t BCF	е	e 200-		Cyprinus	method	Not to be
							any organically	Bioaccumulative potential:			439		caprio		expected
							bound halogens	12.5. Results of PBT and vPvB							No PBT substance,
							which can contribute to the AOX	assessment	LC50	96h			Drochudonio	OECD 203	No vPvB substance
							value in waste	12.1. Toxicity to fish:	2000	3011	> 100 0	mg/l	Brachydanio rerio	(Fish, Acute Toxicity	
Toxicity to	EC50	14d	>=	mg/k	Eisenia	OECD 207	water.	12.1. Toxicity to	NOEC/N	21d	>=	mg/l	Daphnia	Test) OECD 211	
annelids:			100 0	g	foetida	(Earthworm, Acute		daphnia:	OEL		10		magna	(Daphnia magna	
						Toxicity Tests)		40.4 Taviaitus	5050	0.41-		/1	Dankai.	Reproductio n Test)	
Silicon dioxide Toxicity / effect	Endpoin	Tim	Valu	Unit	Organism	Test	Notes	12.1. Toxicity to daphnia:	EC50	24h	> 100 0	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute	
12.1. Toxicity to	t EC0	e 96h	e >10	mg/l	Brachydanio	method OECD 203								Immobilisati on Test)	
fish:			000		rerio	(Fish, Acute Toxicity		12.1. Toxicity to algae:	EC50	72h	>16 40	mg/l	Desmodesm us	OECD 201 (Alga,	
12.1. Toxicity to	EC0	24h	>10	mg/l	Daphnia	Test) OECD 202							subspicatus	Growth Inhibition	
daphnia:			00		magna	(Daphnia sp. Acute Immobilisati		12.2. Persistence and			0	%		Test) mod. MITI- Test	Not biodegrada
12.1. Toxicity to	ErC50	72h	>=1	mg/l	Scenedesm	on Test) OECD 201		degradability:	Log Pow		4,51			OECD 117	ble 22 °C, pH
algae:	2.000	12	000	9.	us subspicatus	(Alga, Growth		Bioaccumulative potential:	209.01		,,,,,			(Partition Coefficient	= 7
						Inhibition Test)								(n- octanol/wate	
12.2. Persistence and degradability:							Inorganic products cannot be	Toxicity to	EC50	3h	>10	mg/l	activated	r) - HPLC method) OECD 209	
degradability.							eliminated from water	bacteria:	2030	311	0	mg/i	sludge	(Activated Sludge,	
							through biological							Respiration Inhibition	
							purification methods.							Test (Carbon	
12.5. Results of PBT and vPvB							No PBT substance,							and Ammonium	
assessment							No vPvB substance	Toxicity to annelids:	EC50	14d	>10 00	mg/k g	Eisenia foetida	Oxidation)) OECD 207 (Earthworm,	
Calcium carbonal	te Endpoin	Tim	Valu	Unit	Organism	Test	Notes	armenus.			00	y	loelida	Acute Toxicity	
Toxicity to	t EC50	e 3h	e >10	mg/l	activated	method OECD 209								Tests)	
bacteria:			00		sludge	(Activated Sludge,			SECT	ION 1	3: Dis	sposal	considera	tions	
						Respiration Inhibition Test		42.4 Weets to		-41 41-					
						(Carbon and		13.1 Waste tre	ance / mix			l amour	nts		
						Ammonium Oxidation))		The waste codes	are recommer						
Toxicity to annelids:					Eisenia foetida	OECD 207 (Earthworm,	Negative	Owing to the user's allocated under ce 08 04 09 waste ad	rtain circumsta	nces. (20)14/955/E	EU)		•	200
						Acute Toxicity		08 05 01 waste iso Recommendation:	cyanates	salai its Ci	Jintaii iii ig	organic sc	ivents of other he	zardous substant	563
12.1. Toxicity to daphnia:	EC50	48h	>10	mg/l	Daphnia magna	Tests) OECD 202 (Daphnia		Sewage disposal s Pay attention to loo	shall be discou		regulation	ns.			
зартна.					magna	sp. Acute Immobilisati		E.g. suitable incine Hardened product:							
12.1. Toxicity to	LC50	96h	>10	mg/l	Oncorhynch	on Test) OECD 203		E.g. dispose at sui	ated packi	ng mat					
fish:			0		us mykiss	(Fish, Acute Toxicity		Pay attention to loc Empty container of	ompletely.		Ü	ns.			
12.1. Toxicity to fish:	LC50	96h	>10 000	mg/l	Oncorhynch us mykiss	Test)		Uncontaminated pa Dispose of package 15 01 10 packagin	ing that canno	t be clear	ned in the				
12.1. Toxicity to daphnia:	EC50	48h	>10 000	mg/l	Daphnia magna			31 To packagill					ort informa		
12.1. Toxicity to algae:	EC50	72h	>20 0	mg/l	Desmodesm us			0							
12.1. Toxicity to	EC50	72h	>14	mg/l	subspicatus Desmodesm	OECD 201		General state 14.1. UN number of	or ID number:		·	No	applicable		
algae:					us subspicatus	(Alga, Growth		Transport by 14.2. UN proper sh	nipping name:	•	/RID)				
						Inhibition Test)		14.3. Transport had 14.4. Packing grou				n.a Not	applicable		



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Revision date / version: 19.1.0.2022 / 0014 Replacing version dated / version: 01.02.2022 / 0013 Valid from: 19.10.2022 PDF print date: 19.10.2022 COSMO® PU-100.250

(COSMOPUR Rapid)

Classification code Not applicable LQ: 14.5. Environmental hazards: Not applicable

Tunnel restriction code:

Transport by sea (IMDG-code)

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

Transport by air (IATA) 14.2. UN proper shipping name:
14.3. Transport hazard class(es):

14.4. Packing group: 14.5. Environmental hazards: Not applicable Not applicable

14.6. Special precautions for user

vise, general measures for safe transport must be followed

Onless specified interview, general measures for sale datasport may be followed.

14.7. Maritime transport in bulk according to IMO instruments

Non-dangerous material according to Transport Regulations.

SECTION 15: Regulatory information

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

Observe restrictions

Comply with national regulations/laws governing the protection of young people at work (national implementation of the Directive 94/33/EC)!

Regulation (EC) No 1907/2006, Annex XVII

Diphenylmethanediisocyanate, isomeres and homologues

Diprinty/internations/cyanate, isotheres and normologues
4,4'-methylenediphenyl diisocyanate
Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate
Comply with national regulations/laws governing maternity protection (national implementation of the Directive
92/85/EEC)!
Comply with trade association/occupational health regulations.
Regulation (EC) No 1907/2006, Annex XVII

Product contains azo dye. It is suspected that azo groups can be enzymatically split in the body.

Directive 2010/75/EU (VOC):

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

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):

Evaluation method used
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). H331 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 RE — Specific target organ toxicity - repeated exposure

STOT KE — Specific target organ toxicity - repeated exposure - Eye Irrita. — 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
Acute Tox. — Acute toxicity - inhalation

Key literature references and sources for data:

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

(ECHA).

Safety data sheets for the constituent substances ECHA Homepage - Information about chemicals. GESTIS Substance Database (Germany).

German Environment Agency "Rigoletto" information site on substances that are hazardous to water

(Germany).
EU Occupation Exposure Limits Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU)

2017/164, (EU) 2019/1831, each as amended.

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

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

Any abbreviations and acronyms used in this document:

acc., acc. to according, according to
ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (=
European Agreement concerning the International Carriage of Dangerous Goods by Road)
Adsorbable organic halogen compounds

Adsorbation original calogen compounds approximately
Art., Art. no.Article number
ASTM ASTM International (American Society for Testing and Materials)
ACLE Toxicity Estimate
BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and

Testing, Germany)

Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health BAuA

and Safety, BCF BSEF Germany)
Bioconcentration factor
The International Bromine Council

body weight

CAS CLP Chemical Abstracts Service

CAS Chemical Abstracts Service
CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)
CMR carcinogenic, mutagenic, reproductive toxic
DMEL Derived Minimum Effect Level
DNEL Derived No Effect Level
DOC Dissolved organic carbon dww. div weight

dw dry weight e.g. for example (abbreviation of Latin 'exempli gratia'), for instance EbCx, EyCx, EbLx (x = 10, 50) Effect Concentration/Level of x % on reduction of the biomass (algae, plants)

European Community

EUropean Community
ECHA European Chemicals Agency
ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect
EEC European Economic Community
EINECS European Inventory of Existing Commercial Chemical Substances
ELINCS European Norms
EN European Norms

EPA

United States Environmental Protection Agency (United States of America)
ErLx (x = 10, 50)
Effect Concentration/Level of x % on inhibition of the growth rate ErCx, ΕμCx, ErLx (x = 10, 50)

(algae, plants)
etc. et cetera
EU Europear

European Union EVAL Ethylene-vinyl alcohol copolymer

Fax. Fax number

gen. GHS GWP

general Globally Harmonized System of Classification and Labelling of Chemicals Global warming potential Adsorption coefficient of organic carbon in the soil Koc Kow octanol-water partition coefficient

IARC International Agency for Research on Cancer IATA International Air Transport Association IBC (Code) International Bulk Chemical (Code) IMDG-code International Maritime Code for Dangerous Goods

incl. IUCLID 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)
Logarithm of adsorption coefficient of organic carbon in the soil IUPAC LC50 LD50

Log Koc Log Kow, Log Pow LQ Limited og Pow Logarithm of octanol-water partition coefficient Limited Quantities

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

n.a. n.av. n.c. n.d.a no data available

National Institute for Occupational Safety and Health (USA) NIOSH

NLP NOEC, NOE OECD

No-longer-Polymer

No Observed Effect Concentration/Level
Organisation for Economic Co-operation and Development organic

org. OSHA Occupational Safety and Health Administration (USA) PBT

persistent, bioaccumulative and toxic
Polyethylene
Predicted No Effect Concentration PNEC

parts per million Polyvinylchloride ppm PVC REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No

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

REGILITION IN IN PROCESSING A SUBMINISSION VIGENCE 1-1.

RID Réglement 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

UN RTDG United Nations Recommendations on the Transport of Dangerous Goods

Voct Vidatile organic compounds

Tel. TOC UN RTDG VOC

Volatile organic compounds

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 guarantee definite characteristics - but they are based on our present up-to-date knowledge

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