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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 12.05.2022 / 0015

Revision date / version: 12.05.202 / 007 Replacing version dated / version: 01.11.2021 / 0014 Valid from: 12.05.2022 PDF print date: 16.05.2022 COSMO® PU-100.110 COSMO® PU-100.112

(COSMOPUR K1)

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-100.110 COSMO® PU-100.112

(COSMOPUR K1)

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:

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.
Skin Irrit.	2	H315-Causes skin irritation.
Resp. Sens.	1	H334-May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin Sens.	1	H317-May cause an allergic skin reaction.
Carc.	2	H351-Suspected of causing cancer.
STOT RE	2	H373-May cause damage to organs through prolonged or repeated exposure by inhalation (respiratory system).

2.2 Label elements

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



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. P3932+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.

As from 24 August 2023 adequate training is required before industrial or professional use. Dibutyltin dilaurate

4,4'-methylenediphenyl diisocyanate

Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate
Methylenediphenyl diisocyanate, modified

2.3 Other hazards

2.3 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 Mixtures

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 %	5-<15
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 %
Methylenediphenyl diisocyanate, modified	

STOT SE 3, H335: >=5 %		
01-2119457013-49-XXXX		

500-040-3		
25686-28-6		
5-<15		
Acute Tox. 4, H332		
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)		
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
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 %

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	

(CLP), M-factors	
Dibutyltin dilaurate	
Registration number (REACH)	
Index	050-030-00-3
EINECS, ELINCS, NLP, REACH-IT List-No.	201-039-8
CAS	77-58-7
content %	0,1-<0,25
Classification according to Regulation (EC) 1272/2008	Skin Corr. 1C, H314
(CLP), M-factors	Eye Dam. 1, H318
	Skin Sens. 1, H317
	Muta. 2, H341
	Repr. 1B, H360FD
	STOT SE 1, H370 (thymus)
	STOT RE 1, H372 (immune system)
	Aquatic Acute 1, H400 (M=1)
	Aquatic Chronic 1 H410 (M=1)

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



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

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

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 immediatel

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)

Derimatis (sain illiamination)
Drying of the skin.
Allergic contact eczema
Discoloration of the skin
Irritant to mucosa of the nose and throat
Coughing
Hondenberg

Headaches

Effect on the central nervous system

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

soning may only appear after an extended period / after several hours

4.3 Indication of any immediate medical attention and special treatment needed

In case of irritation of the lungs, perform first-aid with controlled-dosage aerosol dex

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

Foam Water iet sprav

Unsuitable extinguishing media

High volume water iet

5.2 Special hazards arising from the substance or mixture

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

Oxides of nitrogen

Isocyanates Hydrocyanic acid (hydrogen cyanide)

Toxic gases

Danger of bursting (explosion) when heated

5.3 Advice for firefighters

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 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 suitable protective equipment and material specifications.

6.2 Environmental precautions

If leakage occurs, dam up.

Resolve leaks if this possible without risk.

Resolve leaks it 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 authoritie:

6.3 Methods and material for containment and cleaning upSoak up with absorbent material (e.g. universal binding agent, sand, diatomaceou
dispose of according to Section 13. ous earth, sawdust) and

Allow to stand for a few days in an unclosed container until reaction no longer occurs.

Allow to state to the state of the state of

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.

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.

WEL-TWA: 6 mg/m3 (total inh. dust), 24 mg/m3 (resp. dust), Monitoring procedures:

BMGV: ---

Monitoring procedures

BMGV:

(GB) Chemical Name Calcium carbonate
WEL-TWA: 4 mg/m3 (respirable dust), WEL-STEL:
10 mg/m3 (total inhalable dust)

7.3 Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.1 Control parameters						
GB Chemical Name		mass of 4,4'-methylenediph	enyl diisocyanate a	nd o-(p-		
		obenzyl)phenyl isocyanate				
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-de	erived diamir	ne/mol creatinine in urine	Other information	n: Sen		
(At the end of the period of exp	osure)		(Isocyanates, all	(as -NCO))		
GB Chemical Name		diphenyl diisocyanate, mod				
WEL-TWA: 0,02 mg/m3 (Iso	cyanates,	WEL-STEL: 0,07 mg/r	m3 (Isocyanates,			
all (as -NCO))		all (as -NCO))				
Monitoring procedures:		ISO 16702 (Workplace air				
		isocyanate groups in air us	sing 2-(1-methoxypl	nenylpiperazine and		
	-	liquid chromatography) - 2	007			
		MDHS 25/4 (Organic isocy				
		sampling either onto 2-(1-r	methoxyphenylpipe	razine coated glass		
		fibre filters followed by solv	vent desorption or in	nto impingers and		
	-	analysis using high perforr	mance liquid chrom	atography) - 2015		
BMGV: 1 µmol isocyanate-de	erived diamir	ne/mol creatinine in urine	Other information	n:		
(At the end of the period of exp	osure)					
GB Chemical Name		lenediphenyl diisocyanate				
WEL-TWA: 0,02 mg/m3 (Iso	cyanates,	WEL-STEL: 0,07 mg/r	m3 (Isocyanates,			
all (as -NCO))		all (as -NCO))				
Monitoring procedures:		ISO 16702 (Workplace air				
		isocyanate groups in air us		nenylpiperazine and		
	-	liquid chromatography) - 2				
		MDHS 25/4 (Organic isocy	anates in air - Lab	oratory method using		
		sampling either onto 2-(1-r	methoxyphenylpipe	razine coated glass		
		fibre filters followed by solv	vent desorption or in	nto impingers and		
		analysis using high perforr	mance liquid chrom	atography) - 2015 -		
	-	EU project BC/CEN/ENTR	2/000/2002-16 card	7-4 (2004)		
	-	NIOSH 5521 (ISOCYANA	TES, MONOMERIC	() - 1994		
	-	NIOSH 5522 (ISOCYANA	TES) - 1998			
	-	NIOSH 5525 (ISOCYANA	TES, TOTAL (MAP))) - 2003		
	-	OSHA 18 (Diisocyanates 2				
	-	OSHA 47 (Methylene Bisp				
BMGV: 1 µmol isocyanate-de	erived diamir		Other information			
(At the end of the period of exp			(Isocyanates, all			
, 2 2 p bd or oxp	,		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
(GB) Chemical Name	Dibutyltin	dilaurate		·		
WEL-TWA: 0,1 mg/m3 (Sn)	tin	WEL-STEL: 0,2 mg/m	3 (Sn) (tin			
compounds, organic)		compounds, organic)				
Monitoring procedures:						
BMGV:			Other information	n: Sk (Sn) (tin		
			compounds, orga			
1				*		

Silica, amorphous inh. dust), WEL-STEL:

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

Other information:

Other information:



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

4,4'-methylenedipher 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	μg/l	
	marine					
	Environment -		PNEC	1	mg/l	
	sewage treatment					
	plant					
	Environment - soil		PNEC	2,33	mg/kg	
					dw	
	Environment -		PNEC	37	μg/l	
	sporadic					
	(intermittent) release		BNIEG			
	Environment -		PNEC	11,7	mg/kg	
	sediment, freshwater				dry	
	Environment -		PNEC	1.17	weight	
	sediment, marine		PNEC	1,17	mg/kg dry	
	sediment, manne				weight	
Consumer	Human - oral	Short term.	DNEL	20	mg/kg	
Consumer	Human - Olai	systemic effects	DIVEL	20	bw/day	
Consumer	Human - dermal	Short term.	DNEL	17.2	mg/cm	
Consumer	ridinan deimai	local effects	DIVLE	17,2	2	
Consumer	Human - dermal	Short term,	DNEL	25	mg/kg	
00110411101	Traman doma	systemic effects	5.122		bw/day	
Consumer	Human - inhalation	Short term.	DNEL	0.05	mg/m3	
		local effects		.,	J .	
Consumer	Human - inhalation	Short term,	DNEL	0,05	mg/m3	
		systemic effects			"	
Consumer	Human - inhalation	Long term,	DNEL	0,02	mg/m3	
		local effects		5		
Consumer	Human - inhalation	Long term,	DNEL	0,02	mg/m3	
		systemic effects		5		
Workers /	Human - dermal	Short term,	DNEL	28,7	mg/cm	
employees		local effects			2	
Workers /	Human - dermal	Short term,	DNEL	50	mg/kg	
employees		systemic effects			bw/day	
Workers /	Human - inhalation	Short term,	DNEL	0,1	mg/m3	
employees	Ulimona Sabalat	local effects	DNE	0.4		
Workers /	Human - inhalation	Short term,	DNEL	0,1	mg/m3	
employees	Ultimate Saladari	systemic effects	DNE	0.05		
Workers /	Human - inhalation	Long term,	DNEL	0,05	mg/m3	
employees Workers /	Human - inhalation	local effects	DNEL	0.05	ma er /ma 2	
employees	numan - innalation	Long term, systemic effects	DINEL	0,05	mg/m3	
employees		systemic enects				

Propylene carbonate	!					
Area of application	Exposure route /	Effect on	Descri	Valu	Unit	Note
	Environmental	health	ptor	e		
	compartment					
	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 -	, and the second	PNEC	0,9	mg/l	
	freshwater					
	Environment -		PNEC	0,83	mg/l	
	sediment, freshwater					
	Environment -		PNEC	740	mg/l	
	sewage treatment			0		
	plant					
Consumer	Human - oral	Long term,	DNEL	10	mg/kg	
		systemic effects				
Consumer	Human - dermal	Long term,	DNEL	10	mg/kg	
		systemic effects				
Consumer	Human - inhalation	Long term,	DNEL	10	mg/m3	
		local effects				
Consumer	Human - inhalation	Long term,	DNEL	17,4	mg/m3	
		systemic effects				
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				
Workers /	Human - inhalation	Long term,	DNEL	20	mg/m3	
employees		local effects				

Dibutyltin dilaurate						
Area of application	Exposure route /	Effect on	Descri	Valu	Unit	Note
	Environmental	health	ptor	e		
	compartment					
	Environment -		PNEC	0,05	mg/kg	
	sediment, freshwater				wet	
					weight	
	Environment -		PNEC	0,00	mg/l	
	freshwater			046		
				3		
	Environment -		PNEC	0,00	mg/l	
	marine			004	_	
				6		
	Environment -		PNEC	0,00	mg/kg	
	sediment, marine			5	wet	
					weight	

Consumer	Human - dermal	Short term, systemic effects	DNEL	0,5	mg/kg body weight/ day	
Consumer	Human - inhalation	Short term, systemic effects	DNEL	0,02	mg/m3	
Consumer	Human - oral	Short term, systemic effects	DNEL	0,01	mg/kg body weight/ day	
Consumer	Human - dermal	Long term, systemic effects	DNEL	0,08	mg/kg body weight/ day	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	0,00 3	mg/m3	
Consumer	Human - oral	Long term, systemic effects	DNEL	0,00 2	mg/kg body weight/ day	
Workers / employees	Human - dermal	Short term, systemic effects	DNEL	1	mg/kg body weight/ day	
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	0,07	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	0,2	mg/kg body weight/ day	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	0,01	mg/m3	

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

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

(8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, (8) = Innalable fraction (2017/164/EU, 2017/2398/EU). (9) = Kespirable fraction (2017/164/EU, 2017/2398/EU). (10) = Kespirable 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 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

should be worn.

Applies only if maximum permissible exposure values are listed here.

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

These are specified by e.g. EN 14042.

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

8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

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

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

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

Protective nitrile gloves (EN ISO 374).

Minimum layer thickness in mm

Permeation time (penetration time) in minutes:
>= 480
The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions.

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

Skin protection - Other:

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

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

Thermal hazards:

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

In the case or 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

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



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COSMO® PU-100.110
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(COSMOPUR K1)

Physical state: Colour: Odour:

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

Upper explosion limit: Flash point:

Auto-ignition temperature:
Decomposition temperature:

pH: Kinematic viscosity:

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

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

9.2 Other information

Explosives: Oxidising liquids:

Product is not explosive. Nο

SECTION 10: Stability and reactivity

Paste, liquid. According to specification Characteristic

Insoluble

Does not apply to liquids.

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

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

n.a.

There is no information available on this parameter.

Does not apply to mixtures.
There is no information available on this parameter.
-1,52 g/ml (20°C)
There is no information available on this parameter.

Mixture is non-soluble (in water). 67000 - 93000 mPas (25°C, Dynamic viscosity)

10.1 Reactivity

reacts with water

10.2 Chemical stability
Stable with proper storage and handling.

10.3 Possibility of hazardous reactions

Exothermic reaction possible with: Alcohols

Ancorios
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

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

10.5 Incompatible materials

See also section 7. Acids

Bases Amines Alcohols

10.6 Hazardous decomposition products

See also section 5.2 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-100.110 COSMO® PU-100.112

(COSMOPUR K1))
Toxicity / effect	

(COSMOPUR K1)						
Toxicity / effect	Endpo int	Value	Unit	Organis m	Test method	Notes
Acute toxicity, by oral						n.d.a.
route:						
Acute toxicity, by						n.d.a.
dermal route:						
Acute toxicity, by	ATE	>20	mg/l/			calculated
inhalation:			4h			value,
						Vapours
Skin						n.d.a.
corrosion/irritation:						
Serious eye						n.d.a.
damage/irritation:						
Respiratory or skin						n.d.a.
sensitisation:						
Germ cell						n.d.a.
mutagenicity:						
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Specific target organ						n.d.a.
toxicity - single						
exposure (STOT-SE):						
Specific target organ						n.d.a.
toxicity - repeated						
exposure (STOT-RE):						
Aspiration hazard:						n.d.a.
Symptoms:						n.d.a.

Reaction mass of 4,4'-r	nethylened	iphenyl diiso	cyanate a	nd o-(p-isocy	anatobenzyl)phenyl	isocyanate
Toxicity / effect	Endpo	Value	Unit	Organis	Test method	Notes
	int			m		
Acute toxicity, by oral	LD50	> 10000	mg/k	Rat		
route:			g			
Acute toxicity, by	LD50	> 9400	mg/k	Rabbit		
dermal route:			g			

Acute toxicity, by	LC50	0,49	mg/l/	Rat		Mist,
inhalation:			4h			Dust:,
						Does not
						conform
						with EU
						classifica
						n.
Skin				Rabbit	OECD 404	Irritant
corrosion/irritation:					(Acute Dermal	
					Irritation/Corrosio	
Deceleration and the				Guinea	n)	Yes
Respiratory or skin sensitisation:					OECD 406 (Skin Sensitisation)	res (inhalatio
sensitisation.				pig	Sensilisation)	and skin
						contact)
Germ cell				Salmonel	Regulation (EC)	Negative
mutagenicity:				la	440/2008	rroganro
				typhimuri	B.13/B.14	
				um	(REVERSE	
					MUTATION	
					TEST USING	
					BACTERIA)	
Germ cell				Rat	OECD 474	Negative
mutagenicity:					(Mammalian	
					Erythrocyte	
					Micronucleus	
On male a manufaltur				D-4	Test)	0
Carcinogenicity:				Rat	OECD 453	Carc. 2
					(Combined Chronic	
					Toxicity/Carcinog	
					enicity Studies)	

Methylenediphenyl diis Toxicity / effect	Endpo int	Value	Unit	Organis	Test method	Notes
Acute toxicity, by oral route:	LD50	>2000	mg/k g	Rat	OECD 401 (Acute Oral Toxicity)	Analogous conclusion
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	,	Yes (inhalation)
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Yes (skin contact)
Germ cell mutagenicity:				Salmonel la typhimuri um	Regulation (EC) 440/2008 B.13/B.14 (REVERSE MUTATION TEST USING BACTERIA)	Negative
Germ cell mutagenicity:				Rat	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOEC	0,2	mg/m 3	Rat	OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies)	

4,4'-methylenedipheny		ate				
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)	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
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)	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



(SB)
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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision date / version: 12.05.2022 / 0015 Revision date / version: 12.05.202 / 007 Replacing version dated / version: 01.11.2021 / 0014 Valid from: 12.05.2022 PDF print date: 16.05.2022 COSMO® PU-100.110 COSMO® PU-100.112 (COSMOPUR K1) Reproductive toxicity: NOAE mg/m 3 4-12 Rat Aerosol, (Prenatal Analogous Developmental conclusion Toxicity Study) Specific target organ toxicity - single exposure (STOT-SE), irritation. inhalative: Specific target organ OECD 453 LOAE Aerosol. mg/m 3 Rat toxicity - repeated exposure (STOT-RE), Analogous conclusion, (Combined Chronic Toxicity/Carcinog enicity Studies) Target organ(s): inhalat.: respiratory system Aerosol, Analogous conclusion, Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: NOAE 0,2 mg/r 3 Rat OFCD 453 (Combined Chronic Toxicity/Carcinog enicity Studies) Target organ(s): respiratory system Propylene carbonate Toxicity / effect Value Unit Organis Endpo Test method Notes int LD50 m Rat OFCD 401 Acute toxicity, by oral >5000 mg/ Toxicity) OECD 402 LD50 >2000 Rabbit Acute toxicity, by mg/l (Acute Dermal dermal route: Toxicity) OECD 404 Skin corrosion/irritation: Rabbit Not irritant (Acute Dermal Irritation/Corrosio n) OECD 405 Serious eye damage/irritation: Rabbit Irritant (Acute Eye Irritation/Corrosio Respiratory or skin No (skin Human contact) Negative sensitisation: Germ cell beina OECD 471 (Bacterial Reverse Mutation Test) OECD 474 Negative Germ cell mutagenicity: (Mammalian Erythrocyte Micronucleus Test) OECD 482 Germ cell Negative (Gen. Tox. -DNA Damage mutagenicity: and Repair, Unscheduled DNA Synthesis in Mammalian Cells In Vitro) OECD 451 Carcinogenicity Mouse Negative (Carcinogenicity Studies) OECD 414 NOAE Reproductive toxicity: Negative mg/l (Prenatal Developmental Toxicity Study) No breathing difficulties, headaches, Aspiration hazard Symptoms: gastrointes tinal disturbance dizziness, nausea NOEL OECD 408 >5000 Specific target organ mg/k (Repeated Dose 90-Day Oral Toxicity Study in toxicity - repeated exposure (STOT-RE), Rodents) OECD 413 NOEC 100 Dust, Mist Specific target organ mg/m 3 toxicity - repeated exposure (STOT-RE), inhalat.: (Subchronic Inhalation Toxicity - 90-Day Study) Dibutyltin dilaurate Toxicity / effect Endpo int Value Unit Organis Test method Notes m Rat Corrosive corrosion/irritation: Respiratory or skin Guinea OECD 406 (Skin Sensitising sensitisation:
Aspiration hazard: pig Sensitisation) Negative Silica, amorphous Toxicity / effect Endpo Value Unit Organis Notes Test method m Rat int LD50 OECD 423 Acute toxicity, by oral >5000 (Acute Oral Toxicity - Acute Toxic Class route

Method) OECD 402

(Acute Dermal Toxicity)

Acute toxicity, by

dermal route

LD50

> 2000

mg/l

Rat

	Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosio n)	Not irritant
	Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosio n)	Not irritant
	Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative
П	Aspiration hazard:						No
١.							
	Calcium carbonate						
	Toxicity / effect	Endpo int	Value	Unit	Organis m	Test method	Notes
Ш	Acute toxicity, by oral	LD50	>2000	mg/k	Rat	OECD 420	

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

11.2. Information on other hazards

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(COSMOPUR K1)						
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
						effects on
						health.

SECTION 12: Ecological information

Possibly more information on environmental effects, see Section 2.1 (classification) COSMO® PU-100.110

COSMO® PU-100.112

(COSMOPUR K1)							
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, polycarbam ide is inert and non-degradable
12.3. Bioaccumulative potential:							n.d.a.
12.4. Mobility in soil:							n.d.a.



Page 6 of 9								Other							According
Safety data sheet a Revision date / vers Replacing version of Valid from: 12.05.2 PDF print date: 16. COSMO® PU-100. COSMO® PU-100.	sion: 12.05.20 dated / versior 022 05.2022 .110	22 / 001	5 ′		S, Annex II			Other information:							to experience available to date, polycarba ide is inee and non- degradab
12.5. Results of							n.d.a.								., With water at the
PBT and vPvB assessment 12.6. Endocrine disrupting							Does not apply to								interface transform slowly wi formation
properties: 12.7. Other adverse effects:							mixtures. No information available on other adverse effects on the environmen t.	12.4 Mobility in			0.03	Do*m			of CO2 into a firi insoluble reaction product with a hi melting point (polycarl mide).
Reaction mass of Toxicity / effect	4,4'-methyler Endpoin	nedipher Tim	yl diisoc Valu	yanate an Unit	d o-(p-isocyanat Organism	obenzyl)phenyl Test	isocyanate Notes	12.4. Mobility in soil: 12.1. Toxicity to	H (Henry) LC50	96h	0,02 29 >10	Pa*m 3/mol mg/l	Brachydanio	OECD 203	Analogo
12.2. Persistence and degradability:	t	e 28d	e 0	%	activated sludge	method OECD 302 C (Inherent Biodegradab	Notes	fish:	L030	28d	00	%	rerio	(Fish, Acute Toxicity Test) OECD 302	conclusi
degradability.						ility - Modified MITI Test (II))		Persistence and degradability:		200		~		C (Inherent Biodegradab ility - Modified	biodegra ble, With water at the
12.3. Bioaccumulative potential:	BCF		200				Not to be expected							MITI Test (II))	interface transfor slowly w
12.1. Toxicity to fish:	LC50	96h	> 100 0	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity Test)									formation of CO2 into a find insoluble
12.1. Toxicity to daphnia:	NOEC/N OEL	21d	>10	mg/l	Daphnia magna	OEĆD 211 (Daphnia magna Reproductio n Test)									reaction product with a h melting point
12.1. Toxicity to daphnia:	EC50	24h	> 100 0	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisati									(polycar mide)., Accordi to
Toxicity to bacteria:	EC50	3h	>10 0	mg/l	activated sludge	on Test) OECD 209 (Activated Sludge, Respiration Inhibition									experie availabl to date, polycarl ide is in and nor
						Test (Carbon and Ammonium Oxidation))									degrada ., Analogo conclusi
Methylenedipheny Toxicity / effect	yl diisocyana Endpoin	e, modif	ied Valu	Unit	Organism	Test	Notes	12.1. Toxicity to daphnia:	EC50	24h	>10 00	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute	Analogo conclusi
12.2. Persistence and	t	e 28d	e 0	%	activated sludge	method OECD 302 C (Inherent		12.1. Toxicity to	NOEC/N	21d	>10	mg/l	Daphnia	Immobilisati on Test) OECD 202	Analogo
degradability:						Biodegradab ility - Modified MITI Test		daphnia:	OEL Log Pow		5,22		magna	(Daphnia sp. Acute Immobilisati on Test)	conclus A notab
12.3. Bioaccumulative potential:	BCF		200			(II)) OECD 305 (Bioconcentr ation - Flow-	Not to be expected	Bioaccumulative potential:	Log Pow		5,22				biologic accumu on potentia
12.1. Toxicity to fish:	LC50	96h	>10 00	mg/l	Brachydanio rerio	Through Fish Test) OECD 203 (Fish, Acute Toxicity									has to b expecte (LogPov 3).
12.1. Toxicity to daphnia:	NOEC/N OEL	21d	>=1 0	mg/l	Daphnia magna	Test) OECD 211 (Daphnia magna		12.1. Toxicity to algae:	ErC50	72h	>16 40	mg/l	Desmodesm us subspicatus	OECD 201 (Alga, Growth Inhibition	Analogo
Toxicity to	EC50	3h	>10	mg/l	activated	Reproductio n Test) OECD 209		12.3. Bioaccumulative potential:	BCF	28d	200		Cyprinus caprio	Test) IUCLID Chem. Data Sheet	Not to b expecte
bacteria:			0		sludge	(Activated Sludge, Respiration Inhibition		12.5. Results of PBT and vPvB assessment						(ESIS)	No PBT substan
						Test (Carbon and Ammonium		Other information:	AOX						substan Does no contain
4,4'-methylenedip Toxicity / effect	henyl diisocy Endpoin	anate Tim	Valu	Unit	Organism	Oxidation)) Test	Notes								any organic bound halogen
	t	е	е			method									which ca contribu to the A value in waste
								Toxicity to bacteria:	EC50	3h	>10 0	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium	water. Analogo conclus



Indip to Re : 12.05.202 do / version: IODEC/N DEL I	2 / 0015	j` ′		Lactuca sativa Avena sativa Avena sativa Lumbricus terrestris Eisenia foetida Organism Cyprinus caprio Daphnia magna Desmodesm us subspicatus	OECD 208 (Terrestrial Plants, Growth Test) OECD 208 (Terrestrial Plants, Growth Test) OECD 207 (Earthworm, Acute Toxicity Tests) OECD 207 (Earthworm, Acute Toxicity Tests) Test method 92/69/EC OECD 202 (Daphnia sp. Acute Immobilisati on Test) OECD 201 (Alga, Growth Inhibition Test) OECD 201 (Alga, Growth Inhibition Test) OECD 301 B (Ready Biodegradab ility - Co2 Evolution Test) OECD 301 A (Ready Biodegradab ility - DOC Die-Away Test)	Analogous conclusion Analogous conclusion Analogous conclusion Analogous conclusion Notes	12.2. Persistence and degradability: 12.5. Results of PBT and vPvB assessment Calcium carbonat Toxicity / effect Toxicity to bacteria: 12.1. Toxicity to daphnia: 12.1. Toxicity to fish: 12.1. Toxicity to daphnia: 12.1. Toxicity to algae: 12.1. Toxicity to algae: 12.2. Persistence and degradability:	EC50 EC50 EC50 EC50 EC50 EC50	7im e 3h 48h 96h 48h 72h 72h	Valu e >10 00 >10 00 >10 00 >10 00 >14	mg/l mg/l mg/l mg/l mg/l	Organism activated sludge Eisenia foetida Daphnia magna Oncorhynch us mykiss Daphnia magna Desmodesm us subspicatus Desmodesm us subspicatus	Test method OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) OECD 207 (Earthworm, Acule Toxicity Tests) OECD 202 (Daphnia sp. Acute Immobilisati on Test) OECD 203 (Fish, Acute Toxicity Tests)	Inorganic products cannot be eliminated from water through biological purification methods. No PBT substance, No vPvB substance Notes Notes Inorganic products cannot be eliminated from water through biological
IOEC/N DEL IOEC/N DEL IOEC/N DEL IOEC/N DEL IOEC/N DECIDION IO	14d 14d 14d 14d 14d 14d 14d 14d 17d 14d 17d 17d 17d 17d 17d 17d 17d 17d 17d 17	>100 000 >100 000 >100 000 >100 000 >900 000 -100 000	mg/k g mg/k g mg/k g mg/k g mg/l mg/l mg/l	Avena sativa Lumbricus terrestris Eisenia foetida Organism Cyprinus caprio Daphnia magna Desmodesm us	(Terrestrial Plants, Growth Test) OECD 208 (Terrestrial Plants, Growth Test) OECD 207 (Earthworm, Acute Toxicity Tests) OECD 207 (Earthworm, Acute Toxicity Tests) OECD 207 (Earthworm, Acute Toxicity Tests) Test method 92/69/EC OECD 202 (Daphnia sp. Acute Immobilisati on Test) OECD 201 (Alga, Growth Inhibition Test) OECD 301 B (Ready Biodegradab ility - Co2 Evolution Test) OECD 301 A (Ready Biodegradab ility - DOC Die-Away	Analogous conclusion Analogous conclusion Analogous conclusion Analogous conclusion Notes	PBT and vPvB assessment Calcium carbonat Toxicity / effect Toxicity to bacteria: Toxicity to annelids: 12.1. Toxicity to daphnia: 12.1. Toxicity to fish: 12.1. Toxicity to daphnia: 12.1. Toxicity to algae: 12.1. Toxicity to algae:	EC50 EC50 LC50 LC50 EC50	96h 48h 72h	>10 00 >10 00 >10 00 >10 000 >10 000 0	mg/l mg/l mg/l mg/l	activated sludge Eisenia foetida Daphnia magna Oncorhynch us mykiss Daphnia magna Desmodesm us subspicatus Desmodesm us poesmodesm us us subspicatus	method OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) OECD 207 (Earthworm, Acute Toxicity Tests) OECD 202 (Daphnia sp. Acute Immobilisati on Test) OECD 203 (Fish, Acute Toxicity Test)	No PBT substance, No vPvB substance Notes Notes Notes Inorganic products cannot be eliminated from water through
ROEC/N DEL ROEC/N DEL ROEC/N DEL ROEC50 ROEC	14d	>10 00 100 0 100 0 100 0 100 0 100 0 100 0 100 0 100 0 100 0	mg/k g mg/k g mg/k g Unit mg/l mg/l	Avena sativa Lumbricus terrestris Eisenia foetida Organism Cyprinus caprio Daphnia magna Desmodesm us	Plants, Growth Test) OECD 208 (Terrestrial Plants, Growth Test) OECD 207 (Earthworm, Acute Toxicity Tests) OECD 207 (Earthworm, Acute Toxicity Tests) Test method 92/69/EC OECD 202 (Daphnia sp. Acute Immobilisati on Test) OECD 201 (Alga, Growth Inhibition Test) OECD 301 B (Ready Biodegradab ility - Co2 Evolution Test) OECD 301 A (Ready Biodegradab ility - DOC Die-Away	Analogous conclusion Analogous conclusion Analogous conclusion Notes	Toxicity / effect Toxicity to bacteria: Toxicity to annelids: 12.1. Toxicity to daphnia: 12.1. Toxicity to fish: 12.1. Toxicity to fish: 12.1. Toxicity to algae: 12.1. Toxicity to algae: 12.1. Toxicity to algae:	EC50 EC50 LC50 LC50 EC50	96h 48h 72h	>10 00 >10 00 >10 00 >10 000 >10 000 0	mg/l mg/l mg/l mg/l	activated sludge Eisenia foetida Daphnia magna Oncorhynch us mykiss Daphnia magna Desmodesm us subspicatus Desmodesm us poesmodesm us us subspicatus	method OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) OECD 207 (Earthworm, Acute Toxicity Tests) OECD 202 (Daphnia sp. Acute Immobilisati on Test) OECD 203 (Fish, Acute Toxicity Test)	Notes Negative Inorganic products cannot be eliminated from water through
NOEC/N DEL EC50 Endpoin CC50 EC50 EC50	14d	> 100 0 100 0 0 0 100 0 0 0 0	mg/k g mg/k g mg/k g mg/l mg/l mg/l	Lumbricus terrestris Eisenia foetida Organism Cyprinus caprio Daphnia magna Desmodesm us	OECD 208 (Terrestrial Plants, Growth Test) OECD 207 (Earthworm, Acute Toxicity Tests) OECD 207 (Earthworm, Acute Toxicity Tests) Test method 92/69/EC OECD 202 (Daphnia sp. Acute Immobilisati on Test) OECD 201 (Alga, Growth Inhibition Test) OECD 301 B (Ready Biodegradab ility - Co2 Evolution Test) OECD 301 A (Ready Biodegradab ility - DOC Die-Away	Analogous conclusion Analogous conclusion Analogous conclusion Notes	Toxicity to bacteria: Toxicity to annelids: 12.1. Toxicity to daphnia: 12.1. Toxicity to fish: 12.1. Toxicity to daphnia: 12.1. Toxicity to algae: 12.1. Toxicity to algae:	EC50 EC50 LC50 LC50 EC50	96h 48h 72h	>10 00 >10 00 >10 00 >10 000 >10 000 0	mg/l mg/l mg/l mg/l	activated sludge Eisenia foetida Daphnia magna Oncorhynch us mykiss Daphnia magna Desmodesm us subspicatus Desmodesm us poesmodesm us us subspicatus	method OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) OECD 207 (Earthworm, Acute Toxicity Tests) OECD 202 (Daphnia sp. Acute Immobilisati on Test) OECD 203 (Fish, Acute Toxicity Test)	Inorganic products cannot be eliminated from water through
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	14d	100	%		A (Ready Biodegradab ility - DOC Die-Away		Persistence and							products cannot be eliminated from water through
og Pow		- 0,48			Test)									
						Bioaccumul ation is unlikely (LogPow <	12.3.							purification methods. Not
I						1)., calculated value No PBT	Bioaccumulative potential:							relevant for inorganic substances
						substance, No vPvB substance	12.4. Mobility in soil:							Not relevant
C10	16h	740 0	mg/l	Pseudomon as putida	DIN 38412 T.8	Substance	3011.							for inorganic
NOX		0	%	·		Does not contain any organically	12.5. Results of PBT and vPvB							substances Not relevant
						bound halogens which can contribute	assessment							for inorganic substances
						to the AOX value in waste		SEC1	TION 1	3: Dis	posal	considera	itions	
						water.								
ndpoin	Tim	Valu	Unit	Organism	Test	Notes					amoun	nts		
EC50	e 72h	e >1	mg/l	Desmodesm us subspicatus	OECD 201 (Alga, Growth Inhibition		EC disposal code r The waste codes a Owing to the user's allocated under cer	no.: are recommer s specific cond rtain circumst	ndations b ditions for ances. (20	ased on to use and on 14/955/E	he schedu disposal, o U)	uled use of this pro other waste codes	may be	ces
	28d	22	%		OECD 301 F (Ready Biodegradab	Not readily biodegrada ble	08 05 01 waste iso Recommendation: Sewage disposal s Pay attention to loc	cyanates hall be discou cal and nation	ıraged.					
					Manometric Respirometr y Test)		Hardened product: E.g. dispose at suit	able refuse s		erial				
ndpoin	Tim	Valu	Unit	Organism	Test	Notes	Pay attention to loc	al and nation			s.			
EC0	e 96h	>10 000	mg/l	Brachydanio rerio	method OECD 203 (Fish, Acute	110169	Uncontaminated pa Dispose of packag	ackaging can ing that canno	ot be clear	ned in the				
C0	2//h	>10	ma/l	Danhaia	Toxicity Test)			SEC	TION	14: Tr	anspo	ort informa	ition	
	∠411	00	my/I	magna	(Daphnia sp. Acute Immobilisati on Test)		14.1. UN number of	r ID number:	il (ADR	/RID)	n.a.			
rC50	72h	>=1 000	mg/l	Scenedesm us subspicatus	OECD 201 (Alga,		14.2. UN proper sh 14.3. Transport has	ipping name: zard class(es)	•	-,	n.a.			
Ene	dpoin 0	28d 28d 29d 20d 20d	e e 50	e e	Page	Part		Time	SECT Waste water. Waste water.	Section 1 Section 2 Section 1 Sect	Section 13: Dis Section 13: Dis	SECTION 13: Disposal	Section 13: Disposal consideral water.	Section 13: Disposal considerations Section 13: Disposal considerations



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Revision date / version: 12.05.202 / 007 Replacing version dated / version: 01.11.2021 / 0014 Valid from: 12.05.2022 PDF print date: 16.05.2022 COSMO® PU-100.110 COSMO® PU-100.112

(COSMOPUR K1)

14.5. Environmental hazards: Not applicable Tunnel restriction code:

Transport by sea (IMDG-code)

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

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

14.6. Special precautions for user

rwise, general measures for safe transport must be followed

14.7. Maritime transport in bulk according to IMO instruments

Non-dangerous material according to Transport Regulations

SECTION 15: Regulatory information

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

Observe restrictions

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

Regulation (EC) No 1907/2006, Annex XVII

Reaction mass of 4,4"-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate Methylenediphenyl diisocyanate, modified

4.4'-methylenediphenyl diisocyanate

Dibutvltin dilaurate

Regulation (EU) No 649/2012 'concerning the export and import of hazardous chemicals' must be adhered to, as the product contains a substance that falls within the scope of this Regulation.

Comply with national regulations/laws governing maternity protection (national implementation of the Directive 92/85/EEC)!

Comply with trade association/occupational health regulations.

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):

Classification in accordance with regulation (EC) No. 1272/2008 (CLP)	Evaluation method used
Eye Irrit. 2, H319	Classification according to calculation
	procedure.
STOT SE 3, H335	Classification according to calculation
	procedure.
Skin Irrit. 2, H315	Classification according to calculation
	procedure.
Resp. Sens. 1, H334	Classification according to calculation
	procedure.
Skin Sens. 1, H317	Classification according to calculation
	procedure.
Carc. 2, H351	Classification according to calculation
	procedure.
STOT RE 2, H373	Classification according to calculation
	procedure.

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3). H314 Causes severe skin burns and eye damage. H360FD May damage fertility. May damage the unborn child. H373 May cause damage to organs through prolonged or repeated exposure by inhalation. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H317 May cause an allergic skin reaction.

H318 Causes serious eye damage. H319 Causes serious eye irritation. H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation. H341 Suspected of causing genetic defects. H351 Suspected of causing cancer.

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

Eve Irrit. - Eve irritation

Eye Init. — Eye initiacin' STOT SE — Specific target organ toxicity - single exposure - respiratory tract irritation Skin Irrit. — Skin irritation Resp. Sens. — Respiratory sensitization Skin Sens. — Skin sensitization

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

Skin Corr. — Skin corrosion
Eye Dam. — Serious eye damage

Muta. — Germ cell mutagenicity

Repr. — Reproductive toxicity
STOT SE — Specific target organ toxicity - single exposure
Aquatic Acute — Hazardous to the aquatic environment - acute
Aquatic Chronic — Hazardous to the aquatic environment - chronic

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)

(EURIA):
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).

Cultimary).

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

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

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

Any abbreviations and acronyms used in this document:

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

AOX Adsorbable organic halogen compounds

approx. Art.. Ar rox. approximately Art. no.Article number

ASTM International (American Society for Testing and Materials)

Art., A ASTM ATE BAM Acute Toxicity Estimate
Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and

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

BAUM Burinesaristal for Arbeitsschutz of and Safety, Germany)
BCF Bioconcentration factor
BSEF The International Bromine Council BCF BSEF

body weight Chemical Abstracts Service bw CAS

Chemical Abstracts Service
Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, id packaging of substances and mixtures)
carcinogenic, mutagenic, reproductive toxic
Derived Minimum Effect Level
Derived No Effect Level CLP

labelling : CMR DMEL

DNEL DOC Dissolved organic carbon

dw dy 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

ECHA

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

ΕN European Norms

United States Environmental Protection Agency (United States of America), ErLx (x = 10, 50) Effect Concentration/Level of x % 0 on inhibition of the growth rate FPA ErCx, EµCx, ErLx (x = 10, 50) (algae, plants) etc. et cetera

etc. EU European Union

Ethylene-vinyl alcohol copolymer EVAL

Fax number

Fax. 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

including, inclusive International Uniform Chemical Information Database IUCLID

IUCALD International Uniform Chemical Information Database
IUPAC International Union for Pure Applied Chemistry
Lc50 Lethal Concentration to 50 % of a test population
LD50 Lethal Dose to 50% of a test population (Median Lethal Dose)
Log Koc Logarithm of adsorption coefficient of organic carbon in the soil
Log Kow, Log Pow Logarithm of octanol-water partition coefficient
LQ Limited Quantities

MARPOL International Convention for the Prevention of Marine Pollution from Ships

not applicable not available not checked n.a. n.av. n.c. n.d.a no data available

NIOSH National Institute for Occupational Safety and Health (USA)

NI P

No-longer-Polymer

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

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

ppm PVC parts per million Polyvinylchloride

PVC Polyvinylchloride
REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No
1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)
REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS
No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely
technical identifiers for processing a submission via REACH-IT.
RID Regiement concernant le transport International ferroviaire de marchandises Dangereuses (=
Regulation concerning the International Carriage of Dangerous Goods by Rail)
SVHC Substances of Very High Concern
Tel. Telephone
Total organic carbon
UN RTDG United Nations Recommendations on the Transport of Dangerous Goods
VOC Volatile organic compounds

Volatile organic compounds very persistent and very bioaccumulative wet weight VOC vPvR

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



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(COSMOPUR K1)	
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