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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)

Revision date / version: 25.11.2024 / 0017 Replacing version dated / version: 25.01.2024 / 0016 Valid from: 25.11.2024 PDF print date: 27.11.2024

COSMO® PU-100.130 COSMO® PU-100.131 COSMO® PU-100.132 COSMO® PU-100.132 COSMO® PU-100.390 COSMO® PU-100.390

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

> Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)

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

1.1 Product identifier

COSMO® PU-100.130 COSMO® PU-100.131 COSMO® PU-100.132 COSMO® PU-100.140 COSMO® PU-100.390

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

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

Relevant identified uses of the substance or mixture:

Uses advised against:

1.3 Details of the supplier of the safety data sheet

Weiss Chemie + Technik GmbH & Co. KG Hansastrasse 2

Tel: +49 (0) 2773 / 815-0 msds@weiss-chemie.de www.weiss-chemie.de

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

1.4 Emergency telephone number

Emergency information services / official advisory body:

Telephone number of the company in case of emergencies:

+49 (0) 700 / 24 112 112 (WIC) +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. H319-Causes serious eye irritation. STOT SE H335-May cause respiratory irritation. 3 H315-Causes skin irritation. Skin Irrit. Resp. Sens. H334-May cause allergy or asthma symptoms or breathing difficulties if inhaled. Skin Sens. H317-May cause an allergic skin reaction. H351-Suspected of causing cancer. Carc. STOT RE H373-May cause damage to organs through prolonged or repeated exposure by inhalation (respiratory system).

2.2 Label elements

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



H319-Causes serious eye irritation. H335-May cause respiratory irritation. H315-Causes skin irritation. H334-May cause allergy or asthma symptoms or breathing difficulties if inhaled. H317-May cause an allergic skin reaction. H351-Suspected of causing cancer. H373-May cause damage to organs through prolonged or repeated exposure by inhalation (respiratory system).

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

protection.

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

EUH204-Contains isocvanates. May produce an allergic reaction.

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

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

4.4-methylenediphenyl diisocyanate 2,2-methylenediphenyl diisocyanate o-(p-isocyanatobenzyl)phenyl isocyanate Diphenylmethanediisocyanate, isomeres and homologues

2.3 Other hazards

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 (YYP = persistent, very bloaccumulative, 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

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

EINECS, ELINCS, NEF, REACH-IT LIST-NO.	200-072-1
CAS	108-32-7
content %	1-<10
Classification according to Regulation (EC) 1272/2008	Eye Irrit. 2, H319
(CLP), M-factors	
4,4'-methylenediphenyl diisocyanate	
Registration number (REACH)	01-2119457014-47-XXXX
Index	615-005-00-9
EINECS, ELINCS, NLP, REACH-IT List-No.	202-966-0
CAS	101-68-8
content %	1-<10
Classification according to Regulation (EC) 1272/2008	Acute Tox. 4, H332
(CLP), M-factors	Skin Irrit. 2, H315
	Evo Irrit 2 H310

	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 %
	ATE (as inhalation, Aerosol): 1.5 mg/l/4h

	ATE (as inhalation, Vapours): 11 mg/l/4h
	, , , , , , , , , , , , , , , , , , , ,
o-(p-isocyanatobenzyl)phenyl isocyanate	
Registration number (REACH)	01-2119480143-45-XXXX
Index	615-005-00-9
EINECS, ELINCS, NLP, REACH-IT List-No.	227-534-9
CAS	5873-54-1
content %	1-<10
Classification according to Regulation (EC) 1272/2008	Acute Tox. 4, H332
(CLP), M-factors	Skin Irrit. 2, H315
	Eye Irrit. 2, H319
	Resp. Sens. 1, H334
	Skin Sens 1 H317

	Skin Sens. 1, H317
	Carc. 2, H351
	STOT SE 3, H335
	STOT RE 2, H373 (respiratory system) (as
	inhalation)
Specific Concentration Limits and ATE	Skin Irrit. 2, H315: >=5 %
	Eye Irrit. 2, H319: >=5 %
	Resp. Sens. 1, H334: >=0,1 %
	STOT SE 3, H335: >=5 %
	ATE (as inhalation, Aerosol): 1,5 mg/l/4h
	ATE (as inhalation, Vapours); 11 mg/l/4h

Diphenylmethanediisocyanate, isomeres and	
homologues	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	
CAS	9016-87-9
content %	1-<10
Classification according to Regulation (EC) 1272/2008	Acute Tox. 4, H332
(CLP), M-factors	Skin Irrit. 2, H315
	Eye Irrit. 2, H319
	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 %

01-2119489379-17-XXXX

ATE (as inhalation, Aerosol): 1,5 mg/l/4h ATE (as inhalation, Vapours): 11 mg/l/4h



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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)

Revision date / version: 25.11.2024 / 0017 Replacing version dated / version: 25.01.2024 / 0016 Valid from: 25.11.2024 PDF print date: 27.11.2024

COSMO® PU-100.130 COSMO® PU-100.131 COSMO® PU-100.132 COSMO® PU-100.140 COSMO® PU-100.390

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

022-006-00-2 236-675-5 EINECS, ELINCS, NLP, REACH-IT List-No. 13463-67-7

(CLP), M-factors	
2,2'-methylenediphenyl diisocyanate	
Registration number (REACH)	01-2119927323-43-XXXX
Index	615-005-00-9
EINECS, ELINCS, NLP, REACH-IT List-No.	219-799-4
CAS	2536-05-2
content %	0,1-<1
Classification according to Regulation (EC) 1272/2008	Acute Tox. 4, H332
(CLP), M-factors	Skin Irrit. 2, H315
	Eye Irrit. 2, H319
	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 %
	ATE (as inhalation, Aerosol): 1,5 mg/l
	ATE (as inhalation, Vapours): 11 mg/l/4h

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. The addition of the highest concentrations listed here can result in a classification. Only when this classification is listed in Section 2 does it apply. In all other cases the total concentration is below the

SECTION 4: First aid measures

4.1 Description of first aid measures

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

Inhalation

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

Respiratory arrest - Artificial respiration apparatus necessary.

Skin contact

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

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

Dab away with polyethylene glycol 400

Eye contact

ove contact lenses

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

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

4.2 MOST Important Sylf applicable delayed symptom The following may occur: Dermatitis (skin inflammation) Drying of the skin. Allergic contact eczema Discoloration of the skin tritotto muceon of the page. ns and effects can be found in section 11 and the absorption route in section 4.1.

Irritant to mucosa of the nose and throat

Coughing
Headaches
Effect on the central nervous system

Asthmatic symptoms

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

Respiratory distress
In certain cases, the symptoms of poisoning may only appear after an extended period / after several hour. 4.3 Indication of any immediate medical attention and special treatment needed

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

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Extinction powder Water jet spray

Unsuitable extinguishing media

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop

Oxides of carbon Oxides of nitrogen

Isocyanates
Hydrocyanic acid (hydrogen cyanide)
Toxic gases

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.

Florective respirated with independent an 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 a 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. ease, wear personal protective equipment as specified in section 8 to

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. us earth, sawdust) and

Do not close packing drum. CO2 formation in closed tanks causes pressure to rise.

6.4 Reference to other sections

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

SECTION 7: Handling and storage

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

7.1 Precautions for safe handling

7.1.1 General recommendations

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

Observe the instructions for good working practice and the recommendations for risk assessment. Consult hazardous substance information systems, e.g. from the professional associations, the chemical

industry or different industries, depending on the application (building materials, wood, chemistry, laboratory, leather, metal).

Observe special requirements for isocyanates, also within the framework of the risk assessment and definition of protective measures

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

(GB) Chemical Name	4,4'-methy	lenediphenyl diis	socyanate		
TVEL-TWA: 0,02 mg/m3 (Iso	cyanates,	WEL-STEL:	0,07 mg/r	n3 (Isocyanates,	
all (as -NCO)) (WEL-TWA), 1	0 μg/m3	all (as -NCO)) (WEL-ST	EL)	
(until 31.12.2028), 6 µg/m3 (fr	om				
01.01.2029) (measured as NC	O,				
diisocyanates) (EU)					
Monitoring procedures:		ISO 16702 (Wo	rkplace air	quality - determina	ation of total
		isocyanate grou	ips in air us	sing 2-(1-methoxypl	henylpiperazine and
	-	liquid chromato	graphy) - 2	007	
		MDHS 25/4 (Or	ganic isocy	anates in air - Lab	oratory method using
		sampling either	onto 2-(1-r	methoxyphenylpipe	razine coated glass
		fibre filters follow	wed by solv	vent desorption or in	nto impingers and
		analysis using h	igh perforr	nance liquid chrom	atography) - 2015 -
	-	EU project BC/0	CEN/ENTR	/000/2002-16 card	7-4 (2004)
	-	NIOSH 5521 (IS	SOCYANA ³	TES, MONOMERIC	2) - 1994
	-	NIOSH 5522 (19	SOCYANA ^T	TES) - 1998	
	-	NIOSH 5525 (IS	SOCYANA ^T	TES, TOTAL (MAP))) - 2003
	-	OSHA 18 (Diisc	cyanates 2	2,4-TDI and MDI) -	1980
	-	OSHA 47 (Meth	ylene Bisp	henyl Isocyanate (N	MDI)) - 1984
BMGV: 1 µmol isocyanate-d	erived diamir	e/mol creatinine	in urine	Other information	n: Sen
(At the end of the period of exposure) (BMGV)			(Isocyanates, all)) (WEL) / (13), (15)	
				(diisocyanates) (EU)
(GB) Chemical Name	o-(p-isocy	anatobenzyl)phe	nyl isocyar	nate	

(GB) Chemical Name	o-(p-isocyanatobenzyl)phenyl	isocyanate	
WEL-TWA: 0,02 mg/m3 (Isc	cyanates, WEL-STEL: 0,	07 mg/m3 (Isocyanates,	
all (as -NCO))	all (as -NCO))		
Monitoring procedures:			
BMGV: 1 µmol isocyanate-d	ı: Sen		
(At the end of the period of ex	posure)	(Isocyanates, all)	

	Chemical N		enylmethanediisocyanate, isome		
(GB)					
_					



GB Page 3 of 15 Safety data sheet acco							Consumer	Human - oral	Long term,	DNEL	10	mg/kg	
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)							Consumer	Human - dermal	systemic effects Long term,	DNEL	10	mg/kg	
Revision date / version Replacing version date		24 / 0016					Consumer	Human - inhalation	systemic effects Long term,	DNEL	10	mg/m3	
Valid from: 25.11.2024 PDF print date: 27.11.:							Consumer	Human - inhalation	local effects Long term,	DNEL	17,4	mg/m3	
COSMO® PU-100.130 COSMO® PU-100.131)						Workers /	Human - inhalation	systemic effects Long term,	DNEL	70,5	mg/kg	
COSMO® PU-100.132 COSMO® PU-100.140	!						employees Workers /	Human - inhalation	systemic effects Long term,	DNEL	3 176	mg/m3	
COSMO® PU-100.390							employees Workers /	Human - dermal	systemic effects Long term,	DNEL	20	mg/kg	
(COSMOPUR 819) (COSMOPUR 819 sch	warz)						employees Workers /	Human - inhalation	systemic effects Long term,	DNEL	20	mg/m3	
(COSMOPUR 819 gra (COSMOPUR 819 C)							employees		local effects				
WEL-TWA: 0,02 mg	/m3 (Isocyanates,	WEL-STEL: 0,07 mg/	m3 (Isocya	anates,			4,4'-methylenedipher	nyl diisocyanate					
all (as -NCO)) (WEL-T (until 31.12.2028), 6 µ	WA), 10 µg/m3 g/m3 (from	all (as -NCO)) (WEL-S					Area of application	Exposure route / Environmental	Effect on health	Descri ptor	Valu e	Unit	Note
01.01.2029) (measure diisocyanates) (EU)								compartment Environment -		PNEC	3,7	μg/l	
	anate-derived diamin	e/mol creatinine in urine		nformatio				freshwater Environment -		PNEC	0,37	μg/l	
(At the end of the period	od of exposure) (BMG	V)		nates, all /anates) () (WEL) / EU)	(13), (15)		marine Environment -		PNEC	1	mg/l	
(B) Chemical Name		ioxide (in powder form con			e of			sewage treatment plant					
WEL-TWA: 10 mg/m	3 (total inhalable	ith aerodynamic diameter WEL-STEL:	<= 10 μm)					Environment - soil		PNEC	2,33	mg/kg dw	
dust), 4 mg/m3 (respire Monitoring procedures								Environment - sporadic		PNEC	37	μg/l	
BMGV:	2.2' mothy	lanadinhanyl diisaayanata		nformatio	n:			(intermittent) release Environment -		PNEC	11,7	mg/kg	
GB Chemical Name WEL-TWA: 0,02 mg. all (as -NCO)) (WEL-T	m3 (Isocyanates,	lenediphenyl diisocyanate WEL-STEL: 0,07 mg/ all (as -NCO)) (WEL-S	m3 (Isocya	anates,				sediment, freshwater			L	dry weight	
all (as -NCO)) (WEL-1 (until 31.12.2028), 6 μ 01.01.2029) (measure	g/m3 (from	ali (as -INCO)) (WEL-S	· =L)					Environment - sediment, marine		PNEC	1,17	mg/kg dry	
diisocyanates) (EU) Monitoring procedures							Consumer	Human - oral	Short term,	DNEL	20	weight mg/kg	
	anate-derived diamin	e/mol creatinine in urine		nformatio	n: Sen) (WEL) /	(12) (15)	Consumer	Human - dermal	systemic effects Short term,	DNEL	17,2	bw/day mg/cm	
(At the end of the pend	or exposure) (BINIO			/anates) ((13), (13)	Consumer	Human - dermal	local effects Short term,	DNEL	25	2 mg/kg	
GB Chemical Name WEL-TWA: 0,02 mg		lenediphenyl diisocyanate WEL-STEL: 0,07 mg/		anates.			Consumer	Human - inhalation	systemic effects Short term,	DNEL	0,05	bw/day mg/m3	
all (as -NCO)) (WEL-T (until 31.12.2028), 6 µ	WA), 10 μg/m3	all (as -NCO)) (WEL-S		andioo,			Consumer	Human - inhalation	local effects Short term,	DNEL	0,05	mg/m3	
01.01.2029) (measure diisocyanates) (EU)							Consumer	Human - inhalation	systemic effects Long term,	DNEL	0,02	mg/m3	
Monitoring procedures		ISO 16702 (Workplace ai isocyanate groups in air u					Consumer	Human - inhalation	local effects Long term,	DNEL	0,02	mg/m3	
	-	liquid chromatography) - 2 MDHS 25/4 (Organic isoo	2007				Workers /	Human - dermal	systemic effects Short term,	DNEL	5 28,7	mg/cm	
		sampling either onto 2-(1- fibre filters followed by so	methoxypl	nenylpipe	razine coat	ted glass	employees Workers /	Human - dermal	local effects Short term,	DNEL	50	mg/kg	
		analysis using high perfor EU project BC/CEN/ENTI	mance liqu	id chrom	atography)	- 2015 -	employees Workers /	Human - inhalation	systemic effects Short term,	DNEL	0,1	bw/day mg/m3	
	-	NIOSH 5521 (ISOCYANA NIOSH 5522 (ISOCYANA	TES, MON	NOMERIC) - 1994		employees Workers /	Human - inhalation	local effects Short term,	DNEL	0,1	mg/m3	
	-	NIOSH 5525 (ISOCYANA OSHA 18 (Diisocyanates	TES, TOT	AL (MAP))) - 2003 1980		employees Workers /	Human - inhalation	systemic effects Long term,	DNEL	0,05	mg/m3	
BMGV: 1 µmol isocy	-	OSHA 47 (Methylene Bis e/mol creatinine in urine	ohenyl Isod	yanaté (I	MDI)) - 198	4	employees Workers /	Human - inhalation	local effects Long term,	DNEL	0,05	mg/m3	
(At the end of the period	od of exposure) (BMG	V)		nates, all /anates) () (WEL) / EU)	(13), (15)	employees		systemic effects				
(B) Chemical Name							o-(p-isocyanatobenz	· · · · · · · · · · · · · · · · · · ·	Effect on	Danasi	Valu	Unit	Nata
2,4 mg/m3 (resp. dust)	, ,	WEL-STEL:					Area of application	Exposure route / Environmental compartment	Effect on health	ptor	e	Unit	Note
Monitoring procedures BMGV:	:		Other in	nformatio	n:			Environment - freshwater		PNEC	1	mg/l	
GB Chemical Name WEL-TWA: 0,02 mg	o-(p-isocya	natobenzyl)phenyl isocya WEL-STEL: 0,07 mg		notoo				Environment -		PNEC	0,1	mg/l	
all (as -NCO)) Monitoring procedures		all (as -NCO))	iiio (isocye	anates,				marine Environment - sewage treatment		PNEC	1	mg/l	
BMGV: 1 µmol isocy (At the end of the period	anate-derived diamin	e/mol creatinine in urine		nformation				plant Environment - soil		PNEC	1	mg/kg	
(At the end of the pend		arbonate	(ISOCYA	nates, an	,			Environment -		PNEC	10	dw mg/l	
WEL-TWA: 4 mg/m3 10 mg/m3 (total inhala	(respirable dust),	WEL-STEL:						sporadic (intermittent) release		INLO	10	ilig/i	
Monitoring procedures BMGV:			Other in	nformatio	n:		Consumer	Human - oral	Short term, systemic effects	DNEL	20	mg/kg bw/day	
(GB) Chemical Name	Diphenylm	ethanediisocyanate, isom					Consumer	Human - dermal	Short term, local effects	DNEL	17,2	mg/cm 2	
WEL-TWA: 0,02 mg, all (as -NCO)) (WEL-T	/m3 (Isocyanates, WA), 10 µg/m3	WEL-STEL: 0,07 mg/ all (as -NCO)) (WEL-S	m3 (Isocya				Consumer	Human - dermal	Short term, systemic effects	DNEL	25	mg/kg bw/d	
(until 31.12.2028), 6 μ 01.01.2029) (measure	g/m3 (from	. ".	•				Consumer	Human - inhalation	Short term, local effects	DNEL	0,05	mg/m3	
diisocyanates) (EU) Monitoring procedures	:						Consumer	Human - inhalation	Short term, systemic effects	DNEL	0,05	mg/m3	
	anate-derived diamine	e/mol creatinine in urine V)		nformation	n: Sen) (WEL) /	(13), (15)	Consumer	Human - inhalation	Long term, local effects	DNEL	0,02	mg/m3	
				/anates) (Consumer	Human - inhalation	Long term, systemic effects	DNEL	0,02	mg/m3	
							Workers / employees	Human - dermal	Short term, systemic effects	DNEL	50	mg/kg bw/d	
Propylene carbonate Area of application	Exposure route /	Effect on	Descri	Valu	Unit	Note	Workers / employees	Human - dermal	Short term, local effects	DNEL	28,7	mg/cm 2	
	Environmental compartment	health	ptor	е			Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	0,1	mg/m3	
	Environment - sporadic		PNEC	9	mg/l		Workers / employees	Human - inhalation	Short term, local effects	DNEL	0,1	mg/m3	
	(intermittent) relea Environment -	se	PNEC	0,09	mg/l		Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	0,05	mg/m3	
	marine Environment -		PNEC	0,08	mg/l		Workers / employees	Human - inhalation	Long term, local effects	DNEL	0,05	mg/m3	
	sediment, marine Environment - soil		PNEC	3 0,81	mg/l		Sp.3/000	ı	0110013		-		
	Environment - freshwater		PNEC	0,9	mg/l		Diphenylmethanediis Area of application	socyanate, isomeres and Exposure route /	I homologues Effect on	Descri	Valu	Unit	Note
	Environment - sediment, freshwa	ter	PNEC	0,83	mg/l		, a ca or application	Environmental compartment	health	ptor	e	J	.1016
	Environment -		PNEC	740	mg/l	1				BNIEG			
	sewage treatment			0				Environment - freshwater		PNEC	3,7	μg/l	



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

	Environment -		PNEC	0,37	μg/l	
	marine					
	Environment -		PNEC	11,7	mg/kg	
	sediment, freshwater					
	Environment -		PNEC	1,17	mg/kg	
	sediment, marine					
	Environment - soil		PNEC	2,33	mg/kg	
Workers /	Human - inhalation	Short term,	DNEL	0,1	mg/m3	
employees		local effects				
Workers /	Human - inhalation	Long term,	DNEL	0,05	mg/m3	
employees		local effects				

Titanium dioxide (in powder form containing 1 % or more of particles with aerodynamic diameter <= 10 μm)									
Area of application	Exposure route / Environmental compartment	Effect on health	Descri ptor	Valu e	Unit	Note			
	Environment - freshwater		PNEC	0,18 4	mg/l				
	Environment - marine		PNEC	0,01 84	mg/l				
	Environment - water, sporadic (intermittent) release		PNEC	0,19 3	mg/l				
	Environment - sewage treatment plant		PNEC	100	mg/l				
	Environment - sediment, freshwater		PNEC	100 0	mg/kg dw				
	Environment - sediment, marine		PNEC	100	mg/kg dw				
	Environment - soil		PNEC	100	mg/kg dw				
	Environment - oral (animal feed)		PNEC	166 7	mg/kg feed				
Consumer	Human - oral	Long term, systemic effects	DNEL	700	mg/kg bw/d				
Workers / employees	Human - inhalation	Long term, local effects	DNEL	10	mg/m3				

Area of application	Exposure route /	Effect on	Descri	Valu	Unit	Note
•••	Environmental	health	ptor	e		
	compartment					
	Environment -		PNEC	1	mg/l	
	freshwater					
	Environment -		PNEC	0,1	mg/l	
	marine					
	Environment -		PNEC	1	mg/l	
	sewage treatment					
	plant					
	Environment - soil		PNEC	1	mg/kg	
					dw	
	Environment -		PNEC	10	mg/l	
	water, sporadic					
0	(intermittent) release	Ob t t	DNFL	20		
Consumer	Human - orai	Short term,	DNEL	20	mg/kg bw/d	
Consumer	Human - dermal	systemic effects Short term.	DNEL	17.2		
Consumer	numan - dermai	local effects	DINEL	17,2	mg/cm 2	
Consumer	Human - dermal	Short term.	DNEL	25		
Consumer	numan - dermai	systemic effects	DINEL	25	mg/kg bw/d	
Consumer	Human - inhalation	Short term.	DNEL	0,05	mg/m3	
Consumer	Human - Imiaiation	systemic effects	DINEL	0,05	mg/ms	
Consumer	Human - inhalation	Short term.	DNEL	0,05	mg/m3	
Consumer	Human - Imiaiation	local effects	DINEL	0,05	mg/ms	
Consumer	Human - inhalation	Long term,	DNEL	0.02	mg/m3	
Consumer	Tidinan iinaation	systemic effects	DIVLL	5	mg/mo	
Consumer	Human - inhalation	Long term.	DNEL	0.02	ma/m3	
Concurror	Tranian initiation	local effects	5.122	5	g/c	
Workers /	Human - dermal	Short term.	DNEL	28.7	mg/cm	
employees		local effects		٠,٠	2	
Workers /	Human - dermal	Short term,	DNEL	50	mg/kg	
employees		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		systemic effects				
Workers /	Human - inhalation	Long term,	DNEL	0,05	mg/m3	
employees		local effects				

4,4'-methylenediphenyl diisocyanate										
Area of application	Exposure route /	Effect on	Descri	Valu	Unit	Note				
	Environmental	health	ptor	е						
	compartment		• • • • • • • • • • • • • • • • • • • •							
	Environment -		PNEC	1	mg/l					
	freshwater									
	Environment -		PNEC	0,1	mg/l					
	marine				_					
	Environment - soil		PNEC	1	mg/kg					
					dw					
	Environment -		PNEC	1	mg/l					
	sewage treatment				-					
	plant									
					•	•				

	1 =		DUEO	40		
	Environment -		PNEC	10	mg/l	
	water, sporadic					
	(intermittent) release					
Consumer	Human - dermal	Short term,	DNEL	25	mg/kg	
		systemic effects			bw/d	
Consumer	Human - inhalation	Short term,	DNEL	0,05	mg/m3	
		systemic effects				
Consumer	Human - oral	Short term,	DNEL	20	mg/kg	
		systemic effects			bw/d	
Consumer	Human - dermal	Short term,	DNEL	17,2	mg/cm	
		local effects			2	
Consumer	Human - inhalation	Short term,	DNEL	0,05	mg/m3	
		local effects				
Consumer	Human - inhalation	Long term,	DNEL	0,02	mg/m3	
		systemic effects		5		
Consumer	Human - inhalation	Long term.	DNEL	0.02	mg/m3	
		local effects		5		
Workers /	Human - dermal	Short term.	DNEL	50	mg/kg	
employees		systemic effects			bw/d	
Workers /	Human - inhalation	Short term.	DNEL	0.1	mg/m3	
employees		systemic effects			"	
Workers /	Human - dermal	Short term.	DNEL	28.7	mg/cm	
employees		local effects			2	
Workers /	Human - inhalation	Short term.	DNEL	0,1	mg/m3	
employees		local effects			"	
Workers /	Human - inhalation	Long term,	DNEL	0,05	mg/m3	
employees		systemic effects		.,	5	
Workers /	Human - inhalation	Long term,	DNEL	0,05	mg/m3	
employees	Indiadon	local effects		-,00		
op.o,000		10001 0110010				

o-(p-isocyanatobenzyl)phenyl isocyanate										
Area of application	Exposure route /	Effect on	Descri	Valu	Unit	Note				
	Environmental	health	ptor	е						
	compartment									
	Environment -		PNEC	1	mg/l					
	freshwater									
	Environment -		PNEC	0,1	mg/l					
	marine									
	Environment - soil		PNEC	1	mg/kg					
					dry					
					weight					
	Environment -		PNEC	1	mg/l					
	sewage treatment				-					
	plant									
Consumer	Human - dermal	Short term,	DNEL	25	mg/kg					
		systemic effects			body					
					weight/					
					day					
Consumer	Human - inhalation	Short term,	DNEL	0,05	mg/m3					
		systemic effects			ŭ					
Consumer	Human - oral	Short term,	DNEL	20	mg/kg					
		systemic effects			body					
		,			weight/					
					day					
Consumer	Human - dermal	Short term,	DNEL	17,2	mg/cm					
		local effects			2					
Consumer	Human - inhalation	Long term,	DNEL	0,02	mg/m3					
		systemic effects		5	ŭ					
Consumer	Human - inhalation	Long term,	DNEL	0,02	mg/m3					
		local effects		5	ŭ					
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		systemic effects								
Workers /	Human - dermal	Short term,	DNEL	28,7	mg/cm					
employees		local effects			2					
Workers /	Human - inhalation	Short term,	DNEL	0,1	mg/m3					
employees		local effects			5,					
Workers /	Human - inhalation	Long term,	DNEL	0.05	mg/m3					
employees		systemic effects		.,	5,					
Workers /	Human - inhalation	Long term,	DNFL	0.05	mg/m3					
employees		local effects		0,00	g,5					

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	
	Environment - soil		PNEC	1	mg/kg	
Consumer	Human - oral	Short term, local effects	DNEL	20	mg/kg bw/d	
Consumer	Human - inhalation	Short term, local effects	DNEL	0,05	mg/m3	
Consumer	Human - inhalation	Short term, systemic effects	DNEL	0,05	mg/m3	
Consumer	Human - inhalation	Long term, local effects	DNEL	0,02 5	mg/m3	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	0,02 5	mg/m3	
Consumer	Human - dermal	Short term, local effects	DNEL	17,2	mg/cm 2	
Consumer	Human - dermal	Short term, systemic effects	DNEL	25	mg/kg bw/d	
Workers / employees	Human - inhalation	Short term, local effects	DNEL	0,1	mg/m3	
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	0,1	mg/m3	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	0,05	mg/m3	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	0,05	mg/m3	
Workers / employees	Human - dermal	Short term, local effects	DNEL	28,7	mg/cm 2	
Workers / employees	Human - dermal	Short term, systemic effects	DNEL	50	mg/kg bw/d	

GB - United Kingdom | WEL-TWA = Workplace Exposure Limit - Long-term exposure limit - 8-hour TWA (= time weighted average) reference period (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).



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

(EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU:

or 2019/1831/EU:

(8) = Inhalable fraction (2004/37/CE, 2017/164/EU). (9) = Respirable fraction (2004/37/CE, 2017/164/EU). (11) = Inhalable fraction (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 creatinine in urine (2004/37/CE). |

WEL-STEL = Workplace Exposure Limit - Short-term exposure limit - 15-minute reference period (EH40/2005 Workplace exposure limits (Fourth Edition 2020)). (EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU ar 2019/1831/EU:

(8) = Inhalable fraction (2004/37/EC, 2017/164/EU). (9) = Respirable fraction (2004/37/EC, 2017/164/EU).

(10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). |
| BMGV = Biological monitoring guidance value (EH40/2005 Workplace exposure limits (Fourth Edition

2020)). (EU) = Directive 98/24/EC or 2004/37/EC or SCOEL (Biological Limit Value - BLV, Recommendation from the Scientific Committee on Occupational Exposure Limits (SCOEL)) |

Other information (EH40/2005 Workplace exposure limits (Fourth Edition 2020)): Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage. (EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU,

(EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/ED, 2017/164/ED, 2019/1831/EU or 2024/869/EU:
(13) = The substance can cause sensitisation of the skin and of the respiratory tract (98/24/EC, 2004/37/CE), (14) = The substance can cause sensitisation of the skin (2004/37/CE), (15) = Substantial contribution to the

total body burden via dermal exposure possible. I

8.2 Exposure controls

8.2.1 Appropriate engineering controls

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

Applies only if maximum permissible exposure values are listed here.

Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques. These are specified by e.g. EN 14042. EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of

exposure to chemical and biological agents"

8.2.2 Individual protection measures, such as personal protective equipment General hygiene measures for the handling of chemicals are applicable. Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

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

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

Skin protection - Hand protection:

mical resistant protective gloves (EN ISO 374). Recommended

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

>= 0.35 Permeation time (penetration time) in minutes:

= 480

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

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

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.

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

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

8.2.3 Environmental exposure controls

No information available at present

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties Paste, liquid. According to specification

Physical state: Colour: Odour:

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

Upper explosion limit

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

There is no information available on this parameter. Flash point: There is no information available on this parameter. There is no information available on this parameter. Auto-ignition temperature Decomposition temperature

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

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

Vapour pressure: Density and/or relative density: Relative vapour density: Particle characteristics: There is no information available on this parameter. 1,52 g/cm3 (relative density) There is no information available on this parameter. Does not apply to liquids.

9.2 Other information

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 Alcohols Amines Bases

Acids Water

~ 260°C

Developement of:
Carbon dioxide
CO2 formation in closed tanks causes pressure to rise.

Pressure increase will result in danger of bursting.

10.4 Conditions to avoid

Protect from humidity.
Polymerisation due to high heat is possible.

10.5 Incompatible materials

Acids Bases Amines Alcohols 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-100.130 COSMO® PU-100.131 COSMO® PU-100.131 COSMO® PU-100.140 COSMO® PU-100.390

(COSMOPUR 819) (COSMOPUR 819 schwa (COSMOPUR 819 grau)

(COSMOPUR 819 C)

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			Vapours, calculated value
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.

Propylene carbonate						
Toxicity / effect	Endpo int	Value	Unit	Organis m	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/k g	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	>2000	mg/k g	Rabbit	OECD 402 (Acute Dermal Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosio n)	Not irritant
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosio n)	Irritant
Respiratory or skin sensitisation:				Human being		No (skin contact)
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative
Germ cell mutagenicity:					OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative



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Germ cell					OECD 482	Negative
mutagenicity:					(Gen. Tox	_
					DNA Damage	
					and Repair,	
					Unscheduled	
					DNA Synthesis	
					in Mammalian	
					Cells In Vitro)	
Carcinogenicity:				Mouse	OECD 451	Negative
					(Carcinogenicity	
Depresionative terripitus	NOAE	1000		Rat	Studies) OECD 414	Magativa
Reproductive toxicity:	L	1000	mg/k	Rai	(Prenatal	Negative
	-		g		Developmental	
					Toxicity Study)	
Specific target organ	NOEL	>5000	mg/k		OECD 408	
toxicity - repeated			g		(Repeated Dose	
exposure (STOT-RE),			"		90-Day Oral	
oral:					Toxicity Study in	
					Rodents)	
Specific target organ	NOEC	100	mg/m		OECD 413	Dust, Mist
toxicity - repeated			3		(Subchronic	
exposure (STOT-RE),					Inhalation	
inhalat.:					Toxicity - 90-Day	
					Study)	
Aspiration hazard:						No
Symptoms:						breathing
						difficulties,
						headaches
						gastrointes tinal
						disturbance
						S,
						dizziness.
						nausea
		L			<u> </u>	Haused

			•			
4,4'-methylenedipheny Toxicity / effect	I diisocyana 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)	Analogou conclusio
Acute toxicity, by dermal route:	LD50	>9400	mg/k g	Rabbit	OECD 402 (Acute Dermal Toxicity)	Analogou conclusio
Acute toxicity, by inhalation:	ATE	11	mg/l/ 4h			Vapours
Acute toxicity, by inhalation:	ATE	1,5	mg/l/ 4h			Aerosol
Acute toxicity, by inhalation:	LC50	0,368	mg/l/ 4h	Rat	OECD 403 (Acute Inhalation Toxicity)	Aerosol, Does not conform with EU classifica n.
Acute toxicity, by inhalation:	LC50	1,5	mg/l/ 4h			Aerosol, Expert judgemer
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosio n)	Skin Irrit. 2, Analogou conclusio
Respiratory or skin sensitisation:				Guinea pig		Yes (inhalatio
Respiratory or skin sensitisation:				Mouse	OECD 429 (Skin Sensitisation - Local Lymph Node Assay)	Skin Sen
Germ cell mutagenicity:				Salmonel la typhimuri um	OECD 471 (Bacterial Reverse Mutation Test)	Negative, Analogou conclusio
Germ cell mutagenicity:				Rat	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negativer ale
Germ cell mutagenicity:				Rat	OECD 489 (In Vivo Mammalian Alkaline Comet Assay)	Negativer ale
Carcinogenicity:				Rat	OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies)	Aerosol, Analogou conclusio Carc. 2
Reproductive toxicity:	NOAE L	4-12	mg/m 3	Rat	OECD 414 (Prenatal Developmental Toxicity Study)	Aerosol, Analogou conclusio
Specific target organ toxicity - single exposure (STOT-SE), inhalative:					,	May caus respirator 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

- (- !						respirato system
o-(p-isocyanatobenzyl) Toxicity / effect	Endpo	Value Value	Unit	Organis	Test method	Notes
Acute toxicity, by oral route:	int LD50	>2000	mg/k g	m Rat	Regulation (EC) 440/2008 B.1 (ACUTE ORAL TOXICITY)	Analogou
Acute toxicity, by dermal route:	LD50	>9400	mg/k g	Rabbit	OECD 402 (Acute Dermal Toxicity)	Analogoi conclusio
Acute toxicity, by inhalation:	LC50	0,387	mg/l/ 4h	Rat		Aerosol, Does not conform with EU classifica n.
Acute toxicity, by inhalation:	ATE	1,5	mg/l/ 4h			Aerosol, Expert judgeme
Acute toxicity, by inhalation:	ATE	11	mg/l/ 4h			Vapours
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosio n)	Skin Irrit. 2, Analogo conclusio
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosio n)	Not irrital Analogou conclusio Does no conform with EU classifica
Respiratory or skin sensitisation:				Mouse	OECD 429 (Skin Sensitisation - Local Lymph Node Assay)	Yes (skir contact), Analogo conclusio
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	No (skin contact), Analogo conclusio
Respiratory or skin sensitisation:				Guinea pig		Yes (inhalation Analogo conclusi
Germ cell mutagenicity:				Salmonel la typhimuri um	OECD 471 (Bacterial Reverse Mutation Test)	Negative Analogo conclusio
Germ cell mutagenicity:				Rat	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative Analogo conclusion male
Carcinogenicity:				Rat	OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies)	Aerosol, Analogou conclusio Carc. 2
Reproductive toxicity:	NOAE L	4-12	mg/k g	Rat	OECD 414 (Prenatal Developmental Toxicity Study)	Aerosol, Analogo conclusio
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, Analogo conclusion Target organ(s) respirato 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, Analogoi conclusio Target organ(s): respirato system
Symptoms:						mucous membrai irritation, breathing difficultie coughing asthmati symptom

Diphenylmethanediisoo	yanate, iso	meres and h	omologue	s		
Toxicity / effect	Endpo	Value	Unit	Organis	Test method	Notes
	int			m		
Acute toxicity, by oral	LD50	>5000	mg/k	Rat	OECD 401	
route:			g		(Acute Oral	
					Toxicity)	
Acute toxicity, by	LD50	>5000	mg/k	Rabbit	OECD 402	
dermal route:			g		(Acute Dermal	
					Toxicity)	
Acute toxicity, by	LC50	0,31-	mg/l/	Rat	OECD 403	Aerosol,
inhalation:		0,49	4h		(Acute Inhalation	Does not
					Toxicity)	conform
						with EU
						classificatio
						n.
Acute toxicity, by	ATE	11	mg/l/			Vapours
inhalation:			4h			



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

Acute toxicity, by inhalation:	ATE	1,5	mg/l/ 4h			Aerosol
Skin corrosion/irritation:			711	Rabbit	OECD 404 (Acute Dermal Irritation/Corrosio n)	Skin Irrit. 2
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosio n)	Eye Irrit. 2
Respiratory or skin sensitisation:				Mouse	OECD 429 (Skin Sensitisation - Local Lymph Node Assay)	Yes (skin contact), Analogous conclusion
Respiratory or skin sensitisation:				Guinea pig Rat	OECD 406 (Skin Sensitisation)	Yes (skin contact)
Respiratory or skin sensitisation:						Yes (inhalation
Germ cell mutagenicity:				Rat	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative, Analogous conclusion
Germ cell mutagenicity:				Salmonel la typhimuri um	OECD 471 (Bacterial Reverse Mutation Test)	Negative
Carcinogenicity:				Rat	OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies)	Aerosol, Limited evidence of a carcinoge c effect.
Reproductive toxicity:	NOAE L	4	mg/m 3	Rat	OECD 414 (Prenatal Developmental Toxicity Study)	Aerosol, Negative
Specific target organ toxicity - single exposure (STOT-SE), inhalative:						Target organ(s): respiratory system, May cause respiratory irritation.
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:						Target organ(s): respiratory system
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	LOAE L	1	mg/m 3	Rat	OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies)	Aerosol, Analogous conclusion
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAE L	0,2	mg/m 3	Rat	OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies)	Aerosol, Analogous conclusion
Symptoms:						breathing difficulties

Toxicity / effect	Endpo int	Value	Unit	Organis m	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/k g	Rat	OECD 425 (Acute Oral Toxicity - Up- and-Down Procedure)	
Acute toxicity, by dermal route:	LD50	>5000	mg/k g	Rabbit	·	
Acute toxicity, by inhalation:	LC50	>5,09- 6,8	mg/l/ 4h	Rat		
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosio n)	Not irritant
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosio n)	Not irritant Mechanica irritation possible.
Respiratory or skin sensitisation:				Mouse	OECD 429 (Skin Sensitisation - Local Lymph Node Assay)	Not sensitizisii g
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	No (skin contact)
Germ cell mutagenicity:				Mouse	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative
Germ cell mutagenicity:				Mammali an	OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative

Germ cell mutagenicity:				Salmonel la typhimuri um	(Ames-Test)	Negative
Germ cell mutagenicity:					OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative
Reproductive toxicity (Developmental toxicity):				Rat	OECD 414 (Prenatal Developmental Toxicity Study)	No indications of such an effect.
Specific target organ toxicity - single exposure (STOT-SE):						Not irritant (respiratory tract).
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAE L	3500	mg/k g/d	Rat		(90d)
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAE C	10	mg/m 3	Rat		(90d)
Symptoms:						mucous membrane irritation, coughing, respiratory distress, drying of the skin.

Analogous conclusion

Analogous conclusion

Aerosol, Does not conform with EU classificatio

n.
Aerosol,
Expert
judgement
Vapours

Skin Irrit. 2

Slightly irritant

Yes (inhalation), Analogous conclusion Yes (skin

contact) Negative

Analogous conclusion

Analogous conclusion, Aerosol, Carc. 2

indications of such an effect., Aerosol, Analogous conclusion Aerosol, Target organ(s): respiratory system, Analogous conclusion Aerosol, Target organ(s): respiratory system, Analogous conclusion

conclusion respiratory distress,

coughing, mucous membrane irritation

OECD 453 (Combined Chronic

Toxicity/Carcinog enicity Studies)

mg/m 3

2,2'-methylenedipheny					
Toxicity / effect	Endpo int	Value	Unit	Organis m	Test method
Acute toxicity, by oral route:	LD50	>2000	mg/k g	Rat	Regulation (EC) 440/2008 B.1 (ACUTE ORAL TOXICITY)
Acute toxicity, by dermal route:	LD50	>9400	mg/k g	Rabbit	OECD 402 (Acute Dermal Toxicity)
Acute toxicity, by inhalation:	LC50	0,527	mg/l/ 4h	Rat	OECD 403 (Acute Inhalation Toxicity)
Acute toxicity, by inhalation:	ATE	1,5	mg/l		
Acute toxicity, by inhalation:	ATE	11	mg/l/ 4h		
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosio n)
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosio n)
Respiratory or skin sensitisation:				Guinea pig	
Respiratory or skin sensitisation:				Mouse	OECD 429 (Skin Sensitisation - Local Lymph Node Assay)
Germ cell mutagenicity:				Salmonel la typhimuri um	OECD 471 (Bacterial Reverse Mutation Test)
Germ cell mutagenicity:				Rat	OECD 474 (Mammalian Erythrocyte Micronucleus Test)
Carcinogenicity:				Rat	OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies)
Reproductive toxicity:	NOAE L	4-12	mg/m 3	Rat	OECD 414 (Prenatal Developmental Toxicity Study)
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)

4,4'-methylenediphenyl diisocyanate

Specific target organ toxicity - repeated exposure (STOT-RE),

inhalat.:

Symptoms:



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Toxicity / effect	Endpo int	Value	Unit	Organis m	Test method	Notes
Acute toxicity, by oral route:	LD50	>10000	mg/k g	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by oral route:	LD50	>2000	mg/k g	Rat	Regulation (EC) 440/2008 B.1 (ACUTE ORAL TOXICITY)	
Acute toxicity, by dermal route:	LD50	>9400	mg/k g	Rabbit	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	>2,24	mg/l/ 4h	Rat	OECD 403 (Acute Inhalation Toxicity)	Aerosol
Acute toxicity, by inhalation:	LC50	0,368	mg/l/ 4h	Rat	OECD 403 (Acute Inhalation Toxicity)	Does not conform with EU classificat n.
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosio n)	Irritant, Analogous conclusion
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosio n)	Irritant, Analogous conclusion
Respiratory or skin sensitisation:				Mouse	OECD 429 (Skin Sensitisation - Local Lymph Node Assay)	Yes (skin contact), Analogous conclusion
Respiratory or skin sensitisation:				Guinea pig		Yes (inhalation
Germ cell mutagenicity:				Rat	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative, Analogous conclusion
Carcinogenicity:					OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies)	Analogous conclusion Limited evidence of a carcinoge c effect.
Reproductive toxicity:	NOAE L	4	mg/m 3	Rat	OECD 414 (Prenatal Developmental Toxicity Study)	Negative, Analogous conclusion
Specific target organ toxicity - single exposure (STOT-SE), inhalative:						Irritation of the respirator tract
Specific target organ toxicity - single exposure (STOT-SE), inhalative:						Irritation of the respirator tract, Target organ(s): respirator system
Symptoms:						respirator distress, coughing, mucous
						membran irritation

Silicon dioxide								
Toxicity / effect	Endpo int	Value	Unit	Organis m	Test method	Notes		
Acute toxicity, by dermal route:	LD50	> 2000	mg/k g	Rat	OECD 402 (Acute Dermal Toxicity)			
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosio n)	Not irritan		
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosio n)	Not irritan		
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative		
Aspiration hazard:						No		

o-(p-isocyanatobenzyl)phenyl isocyanate								
Toxicity / effect	Endpo	Value	Unit	Organis	Test method	Notes		
	int			m				
Acute toxicity, by oral route:	LD50	>2000	mg/k g	Rat	Regulation (EC) 440/2008 B.1 (ACUTE ORAL TOXICITY)	Analogous conclusion		

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

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, Mechanical irritation possible.
Respiratory or skin sensitisation:					,	No (skin contact)
Germ cell mutagenicity:					in vitro	Negative
Carcinogenicity:						Negative, administere d as Ca- lactate
Reproductive toxicity:						Negative, administere d as Ca- carbonate

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 classification.
Acute toxicity, by inhalation:	ATE	11	mg/l/ 4h			Vapours
Acute toxicity, by inhalation:	ATE	1,5	mg/l/ 4h			Dusts or mist
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)	Mild irritan
Respiratory or skin				Guinea	OECD 406 (Skin	Yes (skin
sensitisation:				pig	Sensitisation)	contact)
Respiratory or skin sensitisation:				Rat		Yes (inhalation



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

Germ cell mutagenicity:				Salmonel la	Regulation (EC) 440/2008	Analogous conclusion,
				typhimuri um	B.13/B.14 (REVERSE	Negative
					MUTATION TEST USING	
0				Rat	BACTERIA)	Manatha
Germ cell mutagenicity:				Kat	OECD 474 (Mammalian	Negative, Analogous
					Erythrocyte Micronucleus	conclusion
					Test)	
Carcinogenicity:		1	mg/m	Rat	OECD 453	Positive
			3		(Combined Chronic	
					Toxicity/Carcinog	
Reproductive toxicity:	NOAE	12	mg/m	Rat	enicity Studies) OECD 414	Negative,
Reproductive toxicity.	L	12	3	Nat	(Prenatal	Aerosol
					Developmental	
Reproductive toxicity		4	mg/m	Rat	Toxicity Study) OECD 414	Negative
(Developmental		-	3	rui	(Prenatal	regative
toxicity):					Developmental	
Reproductive toxicity				Rat	Toxicity Study) OECD 414	Negative
(Effects on fertility):					(Prenatal	3
					Developmental Toxicity Study)	
Specific target organ					Toxiony Clady)	Irritation of
toxicity - single exposure (STOT-SE):						the respiratory
						tract
Specific target organ						Target
toxicity - single exposure (STOT-SE),						organ(s): respiratory
inhalative:						organs,
						May cause respiratory
						irritation.
Specific target organ	NOEC	0,2	mg/k		OECD 453 (Combined	
toxicity - repeated exposure (STOT-RE):			g		Chronic	
,					Toxicity/Carcinog	
Aspiration hazard:					enicity Studies)	No
Symptoms:						fever,
						coughing,
						headaches, nausea
						and
						vomiting., dizziness,
						breathing
						difficulties,
						laryngeal oedema,
						abdominal
						pain, diarrhoea
		I				uldillioed

11.2. Information on other hazards

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

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).

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Toxicity / effect	Endpoin t	Tim e	Valu e	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:						moulou	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 nondegradable
12.3. Bioaccumulative							n.d.a.
potential: 12.4. Mobility in							n.d.a.
soil: 12.5. Results of PBT and vPvB							n.d.a.
assessment 12.6. Endocrine disrupting properties:							Does not apply to mixtures.
12.7. Other adverse effects:							No information available on other adverse effects on the environmen t.
Other information:							DOC- elimination degree(co mplexing organic substance) >= 80%/28d: No
Other information:	AOX		0	%			According to the recipe, contains no AOX.
Propylene carbon	ate						
Toxicity / effect		Tim	Valu	Unit	Organism	Test	Notes

							contains no AOX.
							no non.
Propylene carbon Toxicity / effect	ate Endpoin	Tim	Valu	Unit	Organism	Test	Notes
roxioity / circut	t	е	e	Onne	Organism	method	Hotes
12.1. Toxicity to fish:	LC50	96h	>10 00	mg/l	Cyprinus caprio	92/69/EC	
12.1. Toxicity to daphnia:	EC50	48h	>10 00	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisati on Test)	
12.1. Toxicity to algae:	EC50	72h	>90 0	mg/l	Desmodesm us subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:			83,5 -87- 7	%		OECD 301 B (Ready Biodegradab ility - Co2 Evolution Test)	Readily biodegrada ble29d
12.2. Persistence and degradability:	DOC	14d	90- 100	%		OECD 301 A (Ready Biodegradab ility - DOC Die-Away Test)	
12.3. Bioaccumulative potential:	Log Pow		0,41			,	Bioaccumul ation is unlikely (LogPow < 1)., calculated value
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Toxicity to bacteria:	EC10	16h	740 0	mg/l	Pseudomon as putida	DIN 38412 T.8	



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Revision date / vers Replacing version of	dated / versior			16										Growth Test)	
Valid from: 25.11.2 PDF print date: 27. COSMO® PU-100. COSMO® PU-100. COSMO® PU-100. COSMO® PU-100.	11.2024 .130 .131 .132							Other organisms:	NOEC/N OEL	14d	>10 00	mg/k g	Avena sativa	OECD 208 (Terrestrial Plants, Growth Test)	Analogous conclusion Does not
COSMO® PU-100.	390							information:	7.67.						contain any
(COSMOPUR 819) (COSMOPUR 819 (COSMOPUR 819 (COSMOPUR 819	schwarz) grau)														organically bound halogens which can contribute
Other information:	AOX		0	%			Does not contain any organically								to the AOX value in waste water.
							bound halogens which can contribute to the AOX value in waste	Other information:							According to experience available to date, polycarban ide is inert
4,4'-methylenedip Toxicity / effect	henyl diisocy Endpoin	anate	Valu	Unit	Organism	Test	water. Notes								and non- degradable ., With water at
12.1. Toxicity to fish:	t LC50	e 96h	>10 00	mg/l	Brachydanio rerio	method OECD 203 (Fish, Acute	Analogous conclusion								the interface, transforms
12.1. Toxicity to daphnia:	EC50	24h	>10 00	mg/l	Daphnia magna	Toxicity Test) OECD 202 (Daphnia sp. Acute	Analogous conclusion								slowly with formation of CO2 into a firm, insoluble
12.1. Toxicity to daphnia:	NOEC/N OEL	21d	>10	mg/l	Daphnia magna	Immobilisati on Test) OECD 211 (Daphnia magna	Analogous conclusion								reaction product with a high melting point
40.4 Tandaltura	F-050	701	40		D d	Reproductio n Test)	01	Tovisituto	NOEC/N	14d			Lumbricus	OECD 207	(polycarba mide).
12.1. Toxicity to algae:	ErC50	72h	>16 40	mg/l	Desmodesm us subspicatus	OECD 201 (Alga, Growth Inhibition Test)	Analogous conclusion	Toxicity to annelids:	OEL	140	> 100 0	mg/k g	terrestris	(Earthworm, Acute Toxicity Tests)	Analogous conclusion
12.2. Persistence and degradability:		28d	0	%		OECD 302 C (Inherent Biodegradab ility - Modified	Not biodegrada ble, With water at the	Toxicity to annelids:	EC50	14d	>10 00	mg/k g	Eisenia foetida	OECD 207 (Earthworm, Acute Toxicity Tests)	Analogous conclusion
						MITI Test (II))	interface, transforms	o-(p-isocyanatobe						ŕ	
							slowly with formation	Toxicity / effect 12.1. Toxicity to	Endpoin t LC50	Tim e 96h	Valu e	Unit	Organism	Test method OECD 203	Notes
							of CO2 into a firm, insoluble reaction product	fish:	EC50	24h	>10 00 >10	mg/l	Brachydanio rerio Daphnia	(Fish, Acute Toxicity Test) OECD 202	Analogous conclusion Analogous
							with a high melting point (polycarba	daphnia:			00	mgri	magna	(Daphnia sp. Acute Immobilisati on Test)	conclusion
							mide)., According to experience available	12.1. Toxicity to daphnia:	NOEC/N OEL	21d	>10	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisati on Test)	Analogous conclusion
							to date, polycarbam ide is inert and non-	12.1. Toxicity to algae:	ErC50	72h	>16 40	mg/l	Scenedesm us subspicatus	OECD 201 (Alga, Growth Inhibition	Analogous conclusion
							degradable ., Analogous conclusion	12.2. Persistence and degradability:		28d	0	%		Test) OECD 302 C (Inherent Biodegradab	Not biodegrada ble,
12.3. Bioaccumulative potential:	Log Pow		4,51 -5,2 2				A notable biological accumulati							ility - Modified MITI Test (II))	Analogous conclusion, According to
							on potential has to be expected (LogPow >								experience available to date, polycarbam ide is inert
12.3. Bioaccumulative potential:	BCF	28d	200		Cyprinus caprio	IUCLID Chem. Data Sheet (ESIS)	3). Not to be expected								and non- degradable ., With water at the
12.4. Mobility in soil:	H (Henry)		0,02 29	Pa*m 3/mol		(EGIO)									interface, transforms
12.5. Results of PBT and vPvB assessment						0.505.000	No PBT substance, No vPvB substance								slowly with formation of CO2 into a firm,
Toxicity to bacteria:	EC50	3h	>10	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon	Analogous conclusion								insoluble reaction product with a high melting point (polycarba
	1	1	1	1		and Ammonium	1	12.3.	BCF	28d	200		Cyprinus	OECD 305	mide). Not to be



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12.4. Mobility in	Н		0,02	Pa*m			
soil:	(Henry)		29	3/mol			
12.5. Results of							No PBT
PBT and vPvB							substance,
assessment							No vPvB
							substance
Toxicity to	EC50	3h	>10	mg/l	activated	OECD 209	Analogous
bacteria:			0	"	sludge	(Activated	conclusion
					5 .	Sludge,	
						Respiration	
						Inhibition	
						Test	
						(Carbon	
						and	
						Ammonium	
						Oxidation))	
Other organisms:	NOEC/N	14d	>10	mg/k	Avena sativa	OECD 208	Analogous
	OEL		00	g		(Terrestrial	conclusion
	-			"		Plants.	
						Growth	
						Test)	
Other organisms:	NOEC/N	14d	>10	mg/k	Lactuca	OECD 208	Analogous
	OFL		00	g	sativa	(Terrestrial	conclusion
	022		""	9	odiira	Plants.	001101001011
						Growth	
						Test)	
Toxicity to	NOEC/N	14d	>10	mg/k	Eisenia	OECD 207	Analogous
annelids:	OFL	. 10	00	g	foetida	(Earthworm.	conclusion
armonas.	0		""	9	100000	Acute	555.451011
						Toxicity	
						Tests)	
						1 6010)	

Diphenylmethanediisocyanate, isomeres and homologues											
Toxicity / effect	Endpoin	Tim	Valu	Unit	Organism	Test	Notes				
	t	е	e		=	method					
12.1. Toxicity to fish:	LC50	96h	>10 00	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity Test)					
12.1. Toxicity to daphnia:	NOEC/N OEL	21d	>=1 0	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproductio n Test)					
12.1. Toxicity to daphnia:	EC50	24h	>10 00	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisati on Test)					
12.1. Toxicity to algae:	ErC50	72h	>16 40	mg/l	Scenedesm us subspicatus	OECD 201 (Alga, Growth Inhibition Test)					
12.2. Persistence and degradability:		28d	0	%	activated sludge	OECD 302 C (Inherent Biodegradab ility - Modified MITI Test (II))	Not biodegrada ble, According to experience available to date, polycarbam ide is inert and non-degradable. With water at the interface, transforms slowly with formation of CO2 into a firm, insoluble reaction product with a high melting point (polycarba mide).				
12.3. Bioaccumulative potential:	BCF	42d	<14		Cyprinus carpio	OECD 305 (Bioconcentr ation - Flow- Through Fish Test)	Not to be expected				
12.5. Results of PBT and vPvB assessment							No vPvB substance, No PBT substance				

-	E050	0.1	4.0			0505.000
Toxicity to bacteria:	EC50	3h	>10 0	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))
Other organisms:	NOEC/N OEL	14d	>10 00	mg/k g	Avena sativa	OECD 208 (Terrestrial Plants, Growth Test)
Other organisms:	NOEC/N OEL	14d	>10 00	mg/k g	Lactuca sativa	OECD 208 (Terrestrial Plants, Growth Test)
Toxicity to annelids:	NOEC/N OEL	14d	>10 00	mg/k g	Lumbricus terrestris	OECD 207 (Earthworm, Acute Toxicity Tests)

Titanium dioxide (in powder form containing 1 % or more of particles with aerodynamic diameter <= 10 um)									
Toxicity / effect	Endpoin	Tim	Valu	Unit	Organism	Test	Notes		
	t	е	е			method			
12.1. Toxicity to fish:	LC50	96h	>10 0	mg/l	Oncorhynch us mykiss	OECD 203 (Fish, Acute Toxicity Test)			
12.1. Toxicity to daphnia:	LC50	48h	>10 0	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisati on Test)			
12.1. Toxicity to algae:	EC50	72h	16	mg/l	Pseudokirch neriella subcapitata	U.S. EPA- 600/9-78- 018			
12.2. Persistence and degradability:					·		Not relevant for inorganic substances		
12.3. Bioaccumulative potential:	BCF	42d	9,6				Not to be expected		
12.3. Bioaccumulative potential:	BCF	14d	19- 352				Oncorhyno hus mykiss		
12.4. Mobility in soil:							Negative		
12.5. Results of PBT and vPvB assessment							No PBT substance No vPvB substance		
Toxicity to bacteria:			>50 00	mg/l	Escherichia coli				
Toxicity to bacteria:	LC0	24h	>10 000	mg/l	Pseudomon as fluorescens				
Toxicity to annelids:	NOEC/N OEL		>10 00	mg/k q	Eisenia foetida				
Water solubility:				, ,			Insoluble2 °C		

2,2-methylenediphenyl diisocyanate											
Toxicity / effect	Endpoin	Tim	Valu	Unit	Organism	Test	Notes				
	t	e	e			method					
12.1. Toxicity to fish:	LC50	96h	>10 00	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity Test)	Analogous conclusion				
12.1. Toxicity to daphnia:	NOEC/N OEL	21d	>10	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisati on Test)	Analogous conclusion				
12.1. Toxicity to daphnia:	EC50	24h	>10 00	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisati on Test)	Analogous conclusion				
12.1. Toxicity to algae:	EC50	72h	>16 40	mg/l	Scenedesm us subspicatus	OECD 201 (Alga, Growth Inhibition Test)	Analogous conclusion				



(SB)
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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 164 0 12.1. Toxicity to EC50 72h OECD 201 mg/l Desmodesm Analogous algae (Alga, Growth conclusion subspicatus Revision date / version: 25.11.2024 / 0017 Replacing version dated / version: 25.01.2024 / 0016 Valid from: 25.11.2024 PDF print date: 27.11.2024 Inhibition Test) OECD 20 NOEC/ OEL 12.1. Toxicity to Analogous mg/ (Alga, algae conclusion subspicatus Growth COSMO® PU-100.130 COSMO® PU-100.131 Inhibition Test)
OECD 302 COSMO® PU-100 132 COSMO® PU-100.132 COSMO® PU-100.390 COSMO® PU-100.390 12.2 28d With water Persistence and sludge C (Inherent Biodegradab at the interface, degradability: (COSMOPUR 819) ility transforms (COSMOPUR 819 schwarz) (COSMOPUR 819 grau) (COSMOPUR 819 C) Modified MITI Test (II)) slowly with formation of CO2 into a firm, OECD 302 28d activated With water 0 insoluble Persistence and sludge C (Inherent at the reaction interface product with a high melting degradability: Biodegradab ility -Modified MITI Test transforms slowly with formation of CO2 point (polycarba (II)) into a firm, insoluble reaction product mide) According to experience with a high available to date, polycarbam ide is inert and non-degradable melting point (polycarba mide)., According to With water BOD 28d % OECD 302 12.2 0 experience OECD 302 C (Inherent Biodegradab ility -Modified MITI Test available to date, polycarbam at the interface, transforms slowly with Persistence and degradability: ide is inert and nonformation of CO2 degradable (II)) into a firm, insoluble reaction Analogous conclusion product 12.3. Log Pow 5,22 A notable with a high Bioaccumulative biological melting potential accumulati point (polycarba on potential has to be mide)., According expected (LogPow > experience available to date, polycarbarr Not to be expected, 12.3. Bioaccumulative BCF 28d 200 Cyprinus caprio OECD 305 (Bioconcentr ation - Flow-Analogous potential: ide is inert conclusion and nondegradable 12.4. Mobility in 0,02 Pa*m BCF 28d 200 OECD 305 (Henry) 29 Cyprinus soil: 12.5. Results of PBT and vPvB Bioaccumulative (Bioconcentr ation - Flowbiological accumulati substance, potential: assessment No vPvB Through on potential has to be expected Fish Test) Toxicity to bacteria: EC50 3h activated sludge OECD 209 (Activated Sludge, (LogPow > Respiration 3). A notable Log Pow OECD 117 Inhibition 12.3 (Partition Coefficient biological accumulati Test Bioaccumulative -5,2 2 (Carbon potential: on potential has to be and Ammonium (n-octanol/wate Oxidation)) OECD 208 r) - HPLC Other organisms NOFC/N 14d >10 00 Avena sativa Analogous method) expected (Terrestrial Plants, Growth (LogPow : 3). No PBT 12.5. Results of Test) OECD 208 PBT and vPvB substance, No vPvB NOEC/N 14d Other organisms: >10 mg/k Lactuca Analogous (Terrestrial Plants, Growth OEL 00 g sativa conclusion substance Toxicity to FC50 3h OFCD 209 mg/ (Activated Sludge, Respiration sludge Test) OECD 207 Toxicity to NOEC/N Analogous Eisenia mg/l annelids: OEL 00 g foetida (Earthworm conclusion Inhibition Acute Toxicity Tests) Test (Carbon and Ammonium 4,4'-methylenediphenyl diisocyanate
Toxicity / effect Endpoin Tim Oxidation)) OECD 209 Test method OECD 203 (Fish, Acute EC50 Valu Unit Organism Notes Toxicity to 3h >10 mg/l activated Analogous (Activated Sludge, Respiration Inhibition sludge conclusion >10 00 mg/ rerio Toxicity Test) OECD 203 Test Analogous conclusion (Carbon 12.1. Toxicity to LC0 96h >10 mg/l Brachydanio (Fish, Acute Toxicity and Ammonium Oxidation)) Test) OECD 202 12.1. Toxicity to EC50 24h Daphnia Analogous Does not >10 ma/l (Daphnia sp. Acute Immobilisati information: daphnia 00 conclusion contain any organically bound halogens on Test) OECD 201 12.1. Toxicity to EC50 72h 1.5 ma/l algae: (Alga, Growth which can contribute to the AOX value in waste Inhibition Test)



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Valid from: 25.11.2 PDF print date: 27. COSMO® PU-100. COSMO® PU-100. COSMO® PU-100. COSMO® PU-100.	2024 .11.2024 .130 .131 .132	2010112	.02 1 7 00	.0				12.1. Toxicity to algae:	EC50	72h	>20	mg/l	Desmodesm us subspicatus	OECD 201 (Alga, Growth Inhibition Test)	Inorganic
COSMO® PU-100. (COSMOPUR 819) (COSMOPUR 819 (COSMOPUR 819) schwarz) grau)							Persistence and degradability:							products cannot be eliminated from wate through
COSMOPUR 819 Toxicity to	C) EC50	14d	>=	mg/k	Eisenia	OECD 207		12.3.							biological purificatio methods.
annelids:			100	g	foetida	(Earthworm, Acute Toxicity Tests)		Bioaccumulative potential:							Not relevant for inorganic substance
Silicon dioxide Toxicity / effect	Endpoin	Tim	Valu	Unit	Organism	Test	Notes	12.4. Mobility in							Not .
12.2. Persistence and degradability:	t	е	е			method	Inorganic products cannot be	soil:							relevant for inorganic substance
							eliminated from water through biological purification methods.	12.5. Results of PBT and vPvB assessment							Not relevant for inorganic substance
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB	12.6. Endocrine disrupting							Not to be expected
o-(p-isocyanatobe	nzul\nh1	isocuer	l to				substance	properties: Toxicity to bacteria:	EC50	3h	>10 00	mg/l	activated sludge	OECD 209 (Activated	
Toxicity / effect 12.1. Toxicity to	Endpoin t LC0	Tim e 96h	Valu e >	Unit mg/l	Organism Brachydanio	Test method OECD 203	Notes Analogous	bacteria.			00		sludge	Sludge, Respiration Inhibition	
fish:	EC50	24h	100 0 >10	mg/l	rerio Daphnia	(Fish, Acute Toxicity Test) OECD 202	conclusion							Test (Carbon and Ammonium	
daphnia:	2000		00	9.	magna	(Daphnia sp. Acute Immobilisati	conclusion	Toxicity to annelids:					Eisenia foetida	Oxidation)) OECD 207 (Earthworm, Acute	Negative
12.1. Toxicity to daphnia:	NOEC/N OEL	21d	>10	mg/l	Daphnia magna	on Test) OECD 202 (Daphnia	Analogous conclusion							Toxicity Tests)	
						sp. Acute Immobilisati		Diphenylmethane Toxicity / effect	diisocyanate Endpoin	isomere	s and ho	mologues Unit	Organism	Test	Notes
12.1. Toxicity to algae:	ErC50	72h	>16 40	mg/l	Scenedesm us subspicatus	on Test) OECD 201 (Alga, Growth Inhibition	Analogous conclusion	12.1. Toxicity to fish:	t LC50	e 96h	e >10 00	mg/l	Brachydanio rerio	method OECD 203 (Fish, Acute Toxicity	Notes
12.2.		28d	0	%		Test) OECD 302	With water	12.1. Toxicity to	NOEC/N	21d	>=	mg/l	Daphnia	Test) OECD 211	
Persistence and degradability:						C (Inherent Biodegradab ility - Modified	at the interface, transforms slowly with	daphnia:	OEL		10		magna	(Daphnia magna Reproductio n Test)	
						MITI Test (II))	formation of CO2 into a firm, insoluble	12.1. Toxicity to daphnia:	EC50	24h	>10 00	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisati	
							reaction product with a high melting point	12.1. Toxicity to algae:	EC50	72h	>16 40	mg/l	Desmodesm us subspicatus	on Test) OECD 201 (Alga, Growth Inhibition	
							(polycarba mide)., Analogous conclusion	12.2. Persistence and degradability:		28d	0	%	activated sludge	Test) OECD 301 C (Ready Biodegradab	Not biodegrad ble
12.3. Bioaccumulative potential:	BCF	28d	200		Cyprinus caprio	OECD 305 (Bioconcentr ation - Flow-	Not to be expected, Analogous							ility - Modified MITI Test (I))	
12.5. Results of						Through Fish Test)	conclusion No PBT	12.3. Bioaccumulative potential:	BCF	42d	<14		Cyprinus caprio	OECD 305 (Bioconcentr ation - Flow-	A notable biological accumula
PBT and vPvB assessment Toxicity to	EC50	3h	>10	mg/l	activated	OECD 209	substance, No vPvB substance Analogous							Through Fish Test)	on potential not to be expected
bacteria:	-555		0	9/1	sludge	(Activated Sludge,	conclusion	10.5.2							(LogPow 3).
						Respiration Inhibition Test (Carbon		12.5. Results of PBT and vPvB assessment							No PBT substance No vPvB substance
						and Ammonium		Toxicity to bacteria:	EC50	3h	>10 0	mg/l	activated sludge	OECD 209 (Activated	
Other organisms:	NOEC/N OEL	14d	>10 00		Lumbricus terrestris	Oxidation)) OECD 207 (Earthworm, Acute Toxicity	Analogous conclusion							Sludge, Respiration Inhibition Test (Carbon and	
Calcium carbonat	ie				I .	Tests)	1							Ammonium Oxidation))	
Toxicity / effect 12.1. Toxicity to fish:	Endpoin t LC50	Tim e 96h	Valu e >10 0	Unit mg/l	Oncorhynch us mykiss	Test method OECD 203 (Fish, Acute	Notes	Other organisms:	NOEC/N OEL	14d	>10 00	mg/k g	Eisenia foetida	OECD 207 (Earthworm, Acute Toxicity	
12.1. Toxicity to	LC50	96h	>10	ma/l	Oncorhynch	Toxicity Test)								Tests)	
fish: 12.1. Toxicity to	EC50	96h 48h	>10 000 >10	mg/l mg/l	us mykiss Daphnia										
daphnia:			00		magna										



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COSMO® PU-100.130 COSMO® PU-100.131 COSMO® PU-100.132 COSMO® PU-100.140 COSMO® PU-100.390

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

Other information:	BOD	28d	<10	%	OECD 302 C (Inherent Biodegradab ility - Modified MITI Test (II))	
Other information:						Does not contain any organically bound halogens which can contribute to the AOX value in waste water.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

For the substance / mixture / residual amounts

EC disposal code no.:

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

Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU) 08 04 09 waste adhesives and sealants containing organic solvents or other hazardous substances 08 05 01 waste isocyanates

Recommendation:
Sewage disposal shall be discouraged.
Pay attention to local and national official regulations.

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

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

Empty container completely.

Uncontaminated packaging can be recycled.

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

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

SECTION 14: Transport information

General statements

Transport by road/by rail (ADR/RID)

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

14.1. UN number or ID number

14.1. UN number or ID number:14.2. UN proper shipping name:Not applicable14.3. Transport hazard class(es):14.4. Packing group:14.5. Environmental hazards: Not applicable Not applicable Not applicable

14.6. Special precautions for user

ecified otherwise, general measures for safe transport must be followed.

14.7. Maritime transport in bulk according to IMO instruments Non-dangerous material according to Transport Regulat

SECTION 15: Regulatory information

Not applicable

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

Observe restrictions:

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

Regulation (EC) No 1907/2006, Annex XVII 4,4'-methylenediphenyl diisocyanate o-(p-isocyanatobenzyl)phenyl isocyanate

Diphenylmethanediisocyanate, isomeres and homologues 2.2'-methylenediphenyl diisocyanate

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

Comply with trade association/occupational health regulations

Directive 2010/75/EU (VOC):

National requirements/regulations on safety and health protection must be applied when using work

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 Evaluation method used regulation (EC) No. 1272/2008 (CLP) 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

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product

procedure.

Classification according to calculation

and the constituents.

H351 Suspected of causing cancer by inhalation.

H331 May cause damage to organs through prolonged or repeated exposure by inhalation. H315 Causes skin irritation. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H332 Harmful if inhaled.

STOT RE 2, H373

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

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

Skin Irrit. — Skin Irritation
Resp. Sens. — Respiratory sensitization
Skin Sens. — Skin sensitization
Carc. — Carcinogenicity
STOT RE — Specific target organ toxicity - repeated exposure
Acute Tox. — Acute toxicity - inhalation

Key literature references and sources

for data:

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

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

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

German Environment Agency Rigoleus Intolination and an auditorial auditorial and a substant and

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. a
Art., Art. no.

Adsultation of the compounds approximately

Article number ASTM International (American Society for Testing and Materials)

ATE Acute Toxicity Estimate BAM

Bundesanstalt für Materialforschung und -prüfung (= Federal Institute for Materials Research and BAWA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)

BCF Bioconcentration factor

The International Rromine Council

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 Local

DNEL Derived No Effect Level

DOC Dissolved organic carbon
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

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

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)



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Ethylene-vinyl alcohol copolymer
Fax number EU EVAL Fax. gen. GHS general
Globally Harmonized System of Classification and Labelling of Chemicals GWP Global warming potential Koc Kow IARC IATA Adsorption coefficient of organic carbon in the soil Koc Adsorption coefficient of organic carbon in the soil Kow octanol-water partition coefficient IARC International Agency for Research on Cancer IATA International Air Transport Association IBC (Code) International Bulk Chemical (Code) IMDG-code International Maritime Code for Dangerous Goods IMDG-code International Maritime Code for Dangerous Goods incl. including, inclusive International Uniform Chemical Information Database International Union for Pure Applied Chemistry LC50 Lethal Concentration to 50 % of a test population 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 International Convention for the Prevention of Marine Pollution from Ships marks hody weight mg/kg bw mg/kg body weight mg/kg bw/d, mg/kg bw/day mg/kg body weight/day mg/kg bw/d, mg/kg bw/day mg mg/kg dw mg/kg yweight n.a. not applicable n.av. not available n.c. not checked n.d.a. NIOSH no data available National Institute for Occupational Safety and Health (USA) No-longer-Polymer

No Observed Effect Concentration/Level
Organisation for Economic Co-operation and Development NI P NOEC. NOEL OECD, org. OSHA PBT organic Occupational Safety and Health Administration (USA) persistent, bioaccumulative and toxic Polyethylene
Predicted No Effect Concentration
parts per million PE PNEC ppm PVC Polyvinylchloride PVC Polyvnylchloride
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. 6/7/8/3xx-xxxx-x No. is automatically assigned, e.g. to pre-registrations without a
CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely
technical identifiers for processing a submission via REACH-IT.

RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail) Regulation Concerning the International Carnage of Dangerous Goods by Rain)
SVHC Substances of Very High Concern
Tel. Telephone
TOC Total organic carbon
UN RTDG United Nations Recommendations on the Transport of Dangerous Goods Volatile organic compounds very persistent and very bioaccumulative vPvB

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. No responsibility.

These statements were made by:

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