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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision date / version: 01.11.2021 / 0016
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Valid from: 01.11.2021
PDF print date: 01.11.2021
COSMO PU-160.180

(COSMOPUR 813)

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-160.180

(COSMOPUR 813)

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

Relevant identified uses of the substance or mixture:

Uses advised against:

1.3 Details of the supplier of the safety data sheet Weiss Chemie + Technik GmbH & Co. KG

Hansastrasse 2 35708 Haiger Tel: +49 (0) 2773 / 815-0 msds@weiss-chemie.de www.weiss-chemie.de

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

1.4 Emergency telephone number

Emergency information services / official advisory body:

Telephone number of the company in case of emergencies:

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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

mazaro ciass	nazaro 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.

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

EUH204-Contains isocyanates. May produce an allergic reaction.

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

Dibutyltin dilaurate
Diphenylmethanediisovyanate, isomeres and homologues
4,4"-methylenediphenyl diisocyanate
o-(p-isocyanatobenzyl)phenyl isocyanate

2,2'-methylenediphenyl diisocyanate

2.3 Other hazards

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

SECTION 3: Composition/information on ingredients

3.1 Substances

22	Miyturas	

3.2 Mixtures	
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 %	5-<25
Classification according to Regulation (EC) 1272/2008	Acute Tox. 4, H332
(CLP), M-factors	Skin Irrit. 2, H315
	Eye Irrit. 2, H319
	Resp. Sens. 1, H334
	Skin Sens. 1, H317
	Carc. 2, H351
	STOT SE 3, H335
	STOT RE 2, H373 (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
a for language to be soon that a support	
o-(p-isocyanatobenzyl)phenyl isocyanate	04 0440 400440 45 VVVV
Registration number (REACH)	01-2119480143-45-XXXX
Registration number (REACH) Index	615-005-00-9
Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No.	615-005-00-9 227-534-9
Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS	615-005-00-9 227-534-9 5873-54-1
Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content %	615-005-00-9 227-534-9 5873-54-1 5-c20
Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % Classification according to Regulation (EC) 1272/2008	615-005-00-9 227-534-9 5873-54-1 5-<20 Acute Tox. 4, H332
Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content %	615-005-00-9 227-534-9 5873-54-1 5-<20 Acute Tox. 4, H332 Skin Irrit. 2, H315
Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % Classification according to Regulation (EC) 1272/2008	615-005-00-9 227-534-9 5873-54-1 5-<20 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319
Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % Classification according to Regulation (EC) 1272/2008	615-005-00-9 227-534-9 5873-54-1 5-<20 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334
Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % Classification according to Regulation (EC) 1272/2008	615-005-00-9 227-534-9 5873-54-1 5-<20 Acute Tox. 4, H332 Skin Iririt. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317
Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % Classification according to Regulation (EC) 1272/2008	615-005-00-9 227-534-9 5873-54-1 520 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351
Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % Classification according to Regulation (EC) 1272/2008	615-005-00-9 227-534-9 5873-54-1 520 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335
Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % Classification according to Regulation (EC) 1272/2008	615-005-00-9 227-534-9 5873-54-1 5-<20 Acute Tox. 4, H332 Skin Irirt. 2, H315 Eye Irirt. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373 (respiratory system) (as
Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	615-005-00-9 227-534-9 5873-54-1 5-<20 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373 (respiratory system) (as inhalation)
Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % Classification according to Regulation (EC) 1272/2008	615-005-00-9 227-534-9 5873-54-1 520 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373 (respiratory system) (as inhalation) Skin Irrit. 2, H315: >=5 %
Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	615-005-00-9 227-534-9 5873-54-1 520 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H337 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373 (respiratory system) (as inhalation) Skin Irrit. 2, H315: >=5 % Eye Irrit. 2, H315: >=5 %
Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	615-005-00-9 227-534-9 5873-54-1 520 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373 (respiratory system) (as inhalation) Skin Irrit. 2, H315: >=5 % Eye Irrit. 2, H319: >=5 % Resp. Sens. 1, H334: >=0,1 %
Registration number (REACH) Index EINECS, ELINCS, NLP, REACH-IT List-No. CAS content % Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	615-005-00-9 227-534-9 5873-54-1 520 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H337 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373 (respiratory system) (as inhalation) Skin Irrit. 2, H315: >=5 % Eye Irrit. 2, H315: >=5 %

Diphenylmethanediisocyanate, isomeres and homologues	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	
CAS	9016-87-9
content %	1-<10
Classification according to Regulation (EC) 1272/2008	Acute Tox. 4, H332
(CLP), M-factors	Skin Irrit. 2, H315
, ,	Eye Irrit. 2, H319
	Resp. Sens. 1, H334
	Skin Sens. 1, H317
	Carc. 2, H351
	STOT SE 3, H335
	STOT RE 2, H373 (respiratory system) (as
	inhalation)
Specific Concentration Limits and ATE	Skin Irrit. 2, H315: >=5 %
•	Eye Irrit. 2, H319: >=5 %
	Resp. Sens. 1, H334: >=0,1 %
	STOT SE 3, H335: >=5 %
	ATE (as inhalation): 1,5 mg/l/4h

2,2'-methylenediphenyl diisocyanate	
Registration number (REACH)	01-2119927323-43-XXXX
Index	615-005-00-9
EINECS, ELINCS, NLP, REACH-IT List-No.	219-799-4
CAS	2536-05-2
content %	0,1-<1
Classification according to Regulation (EC) 1272/2008	Acute Tox. 4, H332
(CLP), M-factors	Skin Irrit. 2, H315
• •	Eye Irrit. 2, H319
	Resp. Sens. 1, H334
	Skin Sens. 1, H317
	Carc. 2, H351
	STOT SE 3, H335
	STOT RE 2, H373 (respiratory system) (as
	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

Dibutyltin dilaurate	
Registration number (REACH)	01-2119496068-27-XXXX
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 (CLP), M-factors	Skin Corr. 1C, H314 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 Ortonoic 1. H410 (M=1)

Isophthaloyl dichloride	
Registration number (REACH)	01-2119493993-19-XXXX



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Revision date / version: 28.07.2021 / 0015 Replacing version dated / version: 28.07.2021 / 0015 Valid from: 01.11.2021 PDF print date: 01.11.2021 COSMO PU-160.180

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Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	202-774-7
CAS	99-63-8
content %	<0,25
Classification according to Regulation (EC) 1272/2008	Acute Tox. 3, H331
(CLP), M-factors	Acute Tox. 4, H312
	Skin Corr. 1A, H314
	Eye Dam. 1, H318

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16. The substances named in this section are given with their actual, appropriate classification! For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

SECTION 4: First aid measures

4.1 Description of first aid measures

First-aiders should ensure they are protected!

Never pour anything into the mouth of an unconscious person!

Inhalation

Remove person from danger area.

Supply person with fresh air and consult doctor according to symptoms.

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

Respiratory arrest - Artificial respiration apparatus necessary.

Skin contact

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

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

Dab away with polyethylene glycol 400

Eye contact

Remove contact lenses.

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

Rinse the mouth thoroughly with water.

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

4.2 Most important symptoms and effects, both acute and delayed

If applicable delayed symptom
The following may occur:
Dermatitis (skin inflammation)
Drying of the skin.
Allergic contact eczema ns and effects can be found in section 11 and the absorption route in section 4.1.

Discoloration of the skin Irritant to mucosa of the nose and throat

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 s

4.3 Indication of any immediate medical attention and special treatment needed

In case of irritation of the lungs, perform first-aid with controlled-dosage aerosol dexamethasone Pulmonary oedema prophylaxis

Medical supervision necessary due to possibility of delayed reaction

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

CO2 Extinction powder

Foam 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
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 re prevent contamination. e, wear personal protective equipment as specified in section 8 to

Ensure sufficient ventilation, remove sources of ignition.

Ensure sufficient ventilation, remove sources or infinition.

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 ection 8 for suitable protective equipment and material specifications

6.2 Environmental precautions

If leakage occurs, dam up

Resolve leaks if this possible without risk

Prevent surface and ground-water infiltration, as well as ground penetration. Prevent from entering drainage system.

If accidental entry into drainage system occurs, inform responsible authorities

6.3 Methods and material for containment and cleaning up

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

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

Allow to statist for a few days in an analoss sometime.

Keep moist.

Do not close packing drum.

CO2 formation in closed tanks causes pressure to rise.

6.4 Reference to other sections

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

SECTION 7: Handling and storage

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

7.1 Precautions for safe handling

7.1.1 General recommendations

Ensure good ventilation.
Avoid inhalation of the vapours.
If applicable, suction measures at the workstation or on the processing machine necessary.
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 15°C to 25°C. Store in a dry place.

7.3 Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

WEL-TWA: 0,1 mg/m3 (Sn) (tin

compounds, organic)

Monitoring procedures

BMGV: ---

(GB)	Chemical Name	4,4'-meth	ylenediphenyl diisocyanate			Content
9			, , , ,			%:5-<25
WE	L-TWA: 0,02 mg/m3 (Iso	cyanates,	WEL-STEL: 0,07 mg/r	n3 (Isocyanates,		
all	(as -NCO))		all (as -NCO))			
Mo	nitoring procedures:		ISO 16702 (Workplace air	quality - determina	ation of tota	ıl
			isocyanate groups in air us	sing 2-(1-methoxypl	henylpiper	azine and
		-	liquid chromatography) - 2	007		
			MDHS 25/4 (Organic isocy	anates in air - Lab	oratory me	thod using
			sampling either onto 2-(1-r			
			fibre filters followed by solv	vent desorption or in	nto imping	ers and
			analysis using high perforr	nance liquid chrom	atography)	- 2015 -
		-	EU project BC/CEN/ENTR			
		-	NIOSH 5521 (ISOCYANA			
		-	NIOSH 5522 (ISOCYANA		,	
		-	NIOSH 5525 (ISOCYANA)) - 2003	
		-	OSHA 18 (Diisocyanates 2			
		-	OSHA 47 (Methylene Bisp			4
BM	GV: 1 µmol isocyanate-de	erived diamii	ne/mol creatinine in urine	Other information	n: Sen	
(At	the end of the period of exp	oosure)		(Isocyanates, all	(as -NCO))
(GB)	Chemical Name	o-(p-isocy	ranatobenzyl)phenyl isocyar	nate		Content
_						0/520

•					
GB Chemical Name	o-(p-isocy	anatobenzyl)phenyl isocyar	nate		Content %:5-<20
WEL-TWA: 0,02 mg/m3 (Iso all (as -NCO))	ocyanates,	WEL-STEL: 0,07 mg/r all (as -NCO))	n3 (Isocyanates,		%.5 - <∠(
Monitoring procedures:					
BMGV: 1 µmol isocyanate-o (At the end of the period of ex		ne/mol creatinine in urine	Other information (Isocyanates, all		
GB Chemical Name	Diphenylm	nethanediisocyanate, isome	eres and homologue	es	Content %:1-<10
WEL-TWA: 0,02 mg/m3 (Iso all (as -NCO))	ocyanates,	WEL-STEL: 0,07 mg/r all (as -NCO))	n3 (Isocyanates,		
Monitoring procedures:					
BMGV: 1 µmol isocyanate-o (At the end of the period of ex		ne/mol creatinine in urine	Other information (Isocyanates, all		
GB Chemical Name	2,2'-methy	rlenediphenyl diisocyanate			Content %:0,1- <1
WEL-TWA: 0,02 mg/m3 (Iso	ocyanates,	WEL-STEL: 0,07 mg/r	n3 (Isocyanates,		
all (as -NCO))		all (as -NCO))			
Monitoring procedures:					
BMGV: 1 µmol isocyanate-c	lerived diamir	ne/mol creatinine in urine	Other information	n: Sen	
(At the end of the period of ex	posure)		(Isocyanates, all	(as -NCO))	
GB) Chemical Name	Dibutyltin	dilaurate			Conten
<u> </u>					%·0 1-

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

WEL-STEL: 0,2 mg/m3 (Sn) (tin

Other information: Sk (Sn) (tin compounds, organic)

compounds, organic)



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Environment - sporadic PNEC 10 mg/l	
(intermittent) release	
Consumer	
Systemic effects bw/day Consumer Human - dermal Short term, DNEL 17,2 mg/cm	
Consumer Human - dermal Short term, DNEL 17,2 mg/cm	
local effects 2	
Consumer Human - dermal Short term, DNEL 25 mg/kg	
systemic effects bw/day	
Consumer Human - inhalation Short term, DNEL 0,05 mg/m3	
local effects	
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 local effects	
Workers / Human - inhalation Short term, DNEL 0,1 mg/m3	
employees systemic effects	
Workers / Human - inhalation Long term, DNEL 0,05 mg/m3	
employees local effects	
Workers / Human - inhalation Long term, DNEL 0,05 mg/m3	
employees systemic effects	

Area of application	Exposure route / Environmental	Effect on health	Descri ptor	Valu e	Unit	Note
	compartment		BUEO			
	Environment -		PNEC	1	mg/l	
	freshwater		BUEO			
	Environment -		PNEC	0,1	mg/l	
	marine		BNIEG	1		
	Environment -		PNEC	1	mg/l	
	sewage treatment					
	plant		BNIEG			
	Environment - soil		PNEC	1	mg/kg	
	Environment -		PNEC	10	dw	
			PINEC	10	mg/l	
	sporadic					
Consumer	(intermittent) release Human - oral	Short term.	DNEL	20	mg/kg	
Consumer	Human - Olai	systemic effects	DINEL	20	bw/dav	
Consumer	Human - dermal	Short term.	DNEL	17.2	mg/cm	
Consumer	numan - dermai	local effects	DINEL	17,2	2	
Consumer	Human - dermal	Short term.	DNEL	25	ma/ka	
	riuman deimai	systemic effects	DIVEL	20	bw/d	
Consumer	Human - inhalation	Short term.	DNEL	0,05	mg/m3	
Consumer	Tidinan iinaation	local effects	DIVEL	0,00	mg/mo	
Consumer	Human - inhalation	Short term.	DNEL	0.05	mg/m3	
Concumor	Tranian initiation	systemic effects	5.122	0,00	g,o	
Consumer	Human - inhalation	Long term.	DNEL	0.02	ma/m3	
		local effects		5		
Consumer	Human - inhalation	Long term,	DNEL	0.02	mg/m3	
		systemic effects		5	J	
Workers /	Human - dermal	Short term.	DNEL	50	mg/kg	
employees		systemic effects			bw/d	
Workers /	Human - dermal	Short term.	DNEL	28.7	ma/cm	
employees		local effects			2	
Workers /	Human - inhalation	Short term,	DNEL	0,1	mg/m3	
employees		systemic effects			-	
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				
Workers /	Human - inhalation	Long term,	DNEL	0,05	mg/m3	
employees		local effects			-	

Area of application	Exposure route /	Effect on	Descri	Valu	Unit	Note
	Environmental compartment	health	ptor	е		
	Environment - freshwater		PNEC	1	mg/l	
	Environment - marine		PNEC	0,1	mg/l	
	Environment - sewage treatment plant		PNEC	1	mg/l	
	Environment - soil		PNEC	1	mg/kg dw	
	Environment - water, sporadic (intermittent) release		PNEC	10	mg/l	
Consumer	Human - oral	Short term, systemic effects	DNEL	20	mg/kg bw/d	
Consumer	Human - dermal	Short term, local effects	DNEL	17,2	mg/cm 2	
Consumer	Human - dermal	Short term, systemic effects	DNEL	25	mg/kg bw/d	
Consumer	Human - inhalation	Short term, systemic effects	DNEL	0,05	mg/m3	
Consumer	Human - inhalation	Short term, local effects	DNEL	0,05	mg/m3	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	0,02 5	mg/m3	
Consumer	Human - inhalation	Long term, local effects	DNEL	0,02 5	mg/m3	
Workers / employees	Human - dermal	Short term, local effects	DNEL	28,7	mg/cm 2	

Workers /	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			-	

Dibutyltin dilaurate						
Area of application	Exposure route / Environmental compartment	Effect on health	Descri ptor	Valu e	Unit	Not
	Environment - sediment, freshwater		PNEC	0,05	mg/kg wet weight	
	Environment - freshwater		PNEC	0,00 046 3	mg/l	
	Environment - marine		PNEC	0,00 004 6	mg/l	
	Environment - sediment, marine		PNEC	0,00 5	mg/kg 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	

Isophthaloyl dichloride										
Area of application	Exposure route / Environmental compartment	Effect on health	Descri ptor	Valu e	Unit	Note				
	Environment - freshwater		PNEC	0,13 3	mg/l					
	Environment - marine		PNEC	0,01 33	mg/l					
	Environment - sporadic (intermittent) release		PNEC	1,33 7	mg/l					
	Environment - sewage treatment plant		PNEC	6,17 1	mg/l					
	Environment - sediment, freshwater		PNEC	0,63 65	mg/kg					
	Environment - sediment, marine		PNEC	0,06 37	mg/kg					
	Environment - soil		PNEC	0,04 92	mg/kg					
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	3,94	mg/m3					
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	4,47	mg/kg bw/d					

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). (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 creatinine 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, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU).

(a) = Initiatable installor (2017/1249c/LD), 2017/2396/LD), (b) = Respirable installor (2017/104/LD), 2017/2396/LD), (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/LD), | 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.

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

8.2 Exposure controls

8.2.1 Appropriate engineering controls

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

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".



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

Keep away from food, drink and animal feedingstuffs

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

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

Skin protection - Hand protection:

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

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

= 480

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

The recommended maximum wearing time is 50% of breakthrough time.

Protective hand cream recommended.

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

Respiratory protection

Normally not necessary.

If OES or MEL is exceeded.
Filter A2 P2 (EN 14387), code colour brown, white
Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:

Not applicable

Additional information on hand protection - No tests have been performed. In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.

Selection of materials derived from glove manufacturer's indications

Selection of Interlais derived into myove manufacturer's minications. 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

Liquid According to specification

Not miscible Does not apply to mixtures

Product is not explosive

There is no information available on this parameter.

There is no information available on this parameter.

There is no information available on this parameter.

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

There is no information available on this parameter. 1,12 g/cm3 (20°C)
There is no information available on this parameter.
Does not apply to liquids.

Slightly 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.

Colour.
Odour:
Melting point/freezing point:
Bolling point or initial bolling 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

Oxidising liquids: Evaporation rate:

No n.a.

SECTION 10: Stability and reactivity

10.1 Reactivity

10.2 Chemical stability

Stable with proper storage and handling.

10.3 Possibility of hazardous reactions

Exothermic reaction possible with Alcohols

Amines Bases

Developement of: Carbon dioxide

CO2 formation in closed tanks causes pressure to rise.

re increase will result in danger of bursting

10.4 Conditions to avoid

Protect from humidity.
Polymerisation due to high heat is possible.
T > ~ 260°C

10.5 Incompatible materials

Acids Bases Amines Alcohols

10.6 Hazardous decomposition products

No decomposition when used as directed

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

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

Aspiration hazard

Symptoms:

COSMO PU-160.180						
(COSMOPUR 813)						
Toxicity / effect	Endpo int	Value	Unit	Organis m	Test method	Notes
Acute toxicity, by oral route:						n.d.a.
Acute toxicity, by dermal route:						n.d.a.
Acute toxicity, by inhalation:	ATE	>20	mg/l/ 4h			calculated value, Vapours
Skin corrosion/irritation:						n.d.a.
Serious eye damage/irritation:						n.d.a.
Respiratory or skin sensitisation:						n.d.a.
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Specific target organ toxicity - single exposure (STOT-SE):						n.d.a.
Specific target organ toxicity - repeated						n.d.a.
exposure (STOT-RE):			+			

n.d.a

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

o-(p-isocyanatobenzyl)phenyl isocyanate									
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			



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

Toxicity / effect	Endpo	Value	Unit	Organis	Test method	Notes
-	int			m		
Acute toxicity, by oral route:	LD50	>5000	mg/k g	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	>5000	mg/k g	Rabbit	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	0,31	mg/l/ 4h	Rat	OECD 403 (Acute Inhalation Toxicity)	Aerosol, Does not conform with EU classifica n.
Acute toxicity, by inhalation:	ATE	1,5	mg/l/ 4h			Expert judgeme
Skin corrosion/irritation:		·		Rabbit	OECD 404 (Acute Dermal Irritation/Corrosio n)	Skin Irrit.
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosio n)	Not irritar Analogor conclusion Does not conform with EU classification

Respiratory or skin				Mouse	OECD 429 (Skin	Yes (skin
sensitisation:				Modec	Sensitisation -	contact).
					Local Lymph	Analogous
					Node Assay)	conclusion
Respiratory or skin				Guinea	OECD 406 (Skin	No (skin
sensitisation:				pig	Sensitisation)	contact)
Respiratory or skin				Rat		Yes
sensitisation:						(inhalation)
Germ cell				Rat	OECD 474	Negative,
mutagenicity:					(Mammalian	Analogous
					Erythrocyte	conclusion
					Micronucleus	
					Test)	
Germ cell				Salmonel	OECD 471	Negative
mutagenicity:				la	(Bacterial	
				typhimuri	Reverse	
				um	Mutation Test)	
Carcinogenicity:				Rat	OECD 453	Aerosol,
					(Combined	Limited
					Chronic	evidence
					Toxicity/Carcinog	of a
					enicity Studies)	carcinogeni
						c effect.
Reproductive toxicity:	NOAE	4	mg/m	Rat	OECD 414	Aerosol,
	L		3		(Prenatal	Negative
					Developmental	
					Toxicity Study)	
Specific target organ	LOAE	1		Rat	OECD 453	Aerosol,
toxicity - repeated	L				(Combined	Analogous
exposure (STOT-RE):					Chronic	conclusion
					Toxicity/Carcinog	
					enicity Studies)	
Specific target organ	NOAE	0,2		Rat	OECD 453	Aerosol,
toxicity - repeated	L				(Combined	Analogous
exposure (STOT-RE):					Chronic	conclusion
					Toxicity/Carcinog	
					enicity Studies)	
Aspiration hazard:						Negative
Specific target organ						Target
toxicity - single						organ(s):
exposure (STOT-SE),						respiratory
inhalative:						system,
						May cause
						respiratory
						irritation.
Specific target organ						Target
toxicity - repeated						organ(s):
exposure (STOT-RE),						respiratory
inhalat.:						system,
						Positive

						May cause respiratory
						irritation.
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:						Target organ(s): respiratory system, Positive
0.01		.1.				
2,2'-methylenediphenyl Toxicity / effect	Endpo	Value	Unit	Organis	Test method	Notes
TOXICITY / ETIECT	int	value	O IIII	m	rest 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	0,527	mg/l/ 4h	Rat	OECD 403 (Acute Inhalation Toxicity)	Aerosol, Does not conform with EU classificatio n.
Acute toxicity, by inhalation:	ATE	1,5	mg/l			Aerosol, Expert judgement
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosio n)	Skin Irrit. 2
Serious eye damage/irritation:				Rabbit	ÓECD 405 (Acute Eye Irritation/Corrosio n)	Slightly irritant
Respiratory or skin sensitisation:				Guinea pig		Yes (inhalation), Analogous conclusion
Respiratory or skin sensitisation:				Mouse	OECD 429 (Skin Sensitisation - Local Lymph Node Assay)	Yes (skin contact)
Germ cell mutagenicity:				Salmonel la typhimuri um	OECD 471 (Bacterial Reverse Mutation Test)	Negative
Germ cell mutagenicity:				Rat	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative, Analogous conclusion
Carcinogenicity:				Rat	OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies)	Analogous conclusion, Aerosol, Carc. 2
Reproductive toxicity:	NOAE L	4-12	mg/m 3	Rat	OECD 414 (Prenatal Developmental Toxicity Study)	No indications of such an effect., Aerosol, Analogous conclusion
Symptoms:						respiratory distress, coughing, mucous membrane irritation



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COSMO PU-160.180														of CO2 into a firm,
(COSMOPUR 813)	Lucas	T 00			0500.450									insoluble reaction
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, Target organ(s): respiratory system, Analogous conclusion								product with a high melting point (polycarba mide). According
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, Target organ(s): respiratory system, Analogous conclusion								to experience available to date, polycarbam ide is inert and non-
Dibutyltin dilaurate		'			l	1								degradable
Toxicity / effect	Endpo int	Value	Unit	Organis m	Test method	Notes	12.3. Bioaccumulative							n.d.a.
Skin corrosion/irritation:				Rat		Corrosive	potential: 12.4. Mobility in							n.d.a.
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Sensitising	soil: 12.5. Results of							n.d.a.
Aspiration hazard:						Negative	PBT and vPvB assessment							
Isophthaloyl dichloride Toxicity / effect	Endpo	Value	Unit	Organis	Test method	Notes	12.6. Endocrine disrupting							n.d.a.
Acute toxicity, by oral	int LD50	>5000	mg/k	m Rat			properties: 12.7. Other							n.d.a.
route: Acute toxicity, by	LD50	1410	g mg/k	Rabbit			adverse effects:		<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u></u>
dermal route: Acute toxicity, by	LC50	0,7	g mg/l/	Rat		Aerosol,	4,4'-methylenedip Toxicity / effect	henyl diisocy Endpoin	yanate Tim	Valu	Unit	Organism	Test	Notes
inhalation:			4h			Analogous conclusion	Other	t	е	е		•	method	According
Skin corrosion/irritation:				Rabbit		Corrosive, Analogous conclusion	information:							to experience available
Serious eye damage/irritation:				Rabbit		Corrosive, Analogous								to date, polycarbam
Respiratory or skin				Guinea		conclusion No (skin								ide is inert and non-
sensitisation: Germ cell				pig	OECD 476 (In	contact) Negative,								degradable ., With
mutagenicity:					Vitro Mammalian Cell Gene Mutation Test)	Analogous conclusion								water at the interface, transforms
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAE L	474	mg/k g	Rat	OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)	Analogous conclusion								slowly with formation of CO2 into a firm, insoluble reaction
11.2. Information of COSMO PU-160.180	on other	hazards												product with a high melting point
(COSMOPUR 813) Toxicity / effect	Endpo	Value	Unit	Organis	Test method	Notes								(polycarba mide).
Endocrine disrupting	int			m		Does not	12.4. Mobility in soil:	H (Henry)		0,02 29	Pa*m 3/mol			
Other information:						apply to mixtures. No other relevant	12.1. Toxicity to fish:	LC50	96h	>10 00	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity	Analogous conclusion
						information available on adverse effects on	12.2. Persistence and degradability:		28d	0	%		Test) OECD 302 C (Inherent Biodegradab ility -	Not biodegrada ble, With water at
						health.							Modified MITI Test	the interface,
	SECTION	ON 12: E	cologi	cal infor	mation								(II))	transforms slowly with
Describly many information		nmante! -#	40.00-0	Hinn 2.4 (-1:	ification)									formation of CO2
Possibly more information COSMO PU-160.180	n on enviro	nmental effec	ts, see Sec	tion 2.1 (class	sification).									into a firm,
(COSMOPUR 813)			1											reaction
t		Tim Valu e e	Unit	Organisn	n Test method	Notes								with a high melting
12.1. Toxicity to fish:						n.d.a.								point (polycarba
12.1. Toxicity to daphnia:						n.d.a.								mide).,
12.1. Toxicity to algae:						n.d.a.								to experience
														available to date, polycarbam ide is inert and non-
														degradable ., Analogous conclusion
							12.1. Toxicity to	EC50	24h	>10	mg/l	Daphnia	OECD 202	Analogous
							daphnia:	2000		00	g/1	magna	(Daphnia sp. Acute Immobilisati on Test)	conclusion
							12.1. Toxicity to daphnia:	NOEC/N OEL	21d	>10	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute	Analogous conclusion
													Immobilisati on Test)	



Bioaccumulative potential:			5,22											MITI Test (II))	According to
12.3. Bioaccumulative potential:	Log Pow		5,22												experience
Bioaccumulative potential:	Log I ow		3,22				A notable								available to date, polycarban
12.1. Toxicity to							biological accumulati								ide is inert and non-
							on potential								degradable
							has to be expected								water at the
							(LogPow > 3).								interface, transforms
	ErC50	72h	>16 40	mg/l	Desmodesm us subspicatus	OECD 201 (Alga, Growth	Analogous conclusion								slowly with formation of CO2
12.3. Bioaccumulative	BCF	28d	200		Cyprinus caprio	Inhibition Test) IUCLID Chem. Data	Not to be expected								into a firm, insoluble reaction product
potential: 12.5. Results of					Сарпо	Sheet (ESIS)	No PBT								with a high melting point
PBT and vPvB assessment							substance, No vPvB								(polycarba mide).
Other information:	AOX						Substance Does not contain	12.3. Bioaccumulative potential:	BCF	28d	200		Cyprinus caprio	OECD 305 (Bioconcentr ation - Flow-	Not to be expected, Analogous
							any organically bound	12.4. Mobility in	Н		0,02	Pa*m		Through Fish Test)	conclusion
							halogens which can	soil: 12.5. Results of	(Henry)		29	3/mol			No PBT
							contribute to the AOX	PBT and vPvB assessment							substance, No vPvB
							value in waste	Toxicity to	EC50	3h	>10	mg/l	activated	OECD 209	substance Analogous
	EC50	3h	>10	mg/l	activated	OECD 209	water. Analogous	bacteria:			0		sludge	(Activated Sludge,	conclusion
bacteria:			0		sludge	(Activated Sludge, Respiration	conclusion							Respiration Inhibition Test	
						Inhibition Test								(Carbon and	
						(Carbon and								Ammonium Oxidation))	
						Ammonium Oxidation))		Other organisms:	NOEC/N OEL	14d	>10 00	mg/k g	Avena sativa	OECD 208 (Terrestrial	Analogous conclusion
	NOEC/N OEL	14d	>10 00	mg/k g	Lactuca sativa	OECD 208 (Terrestrial	Analogous conclusion					Ü		Plants, Growth	
				-		Plants, Growth		Other organisms:	NOEC/N	14d	>10	mg/k	Lactuca	Test) OECD 208	Analogous
	NOEC/N	14d	>10	mg/k	Avena sativa	Test) OECD 208	Analogous		OEL		00	g	sativa	(Terrestrial Plants,	conclusion
	OEL		00	g		(Terrestrial Plants,	conclusion		NOE0/N		- 10			Growth Test)	
Toxicity to	NOEC/N	14d	>		Lumbricus	Growth Test) OECD 207	Analogous	Toxicity to annelids:	NOEC/N OEL	14d	>10 00	mg/k g	Eisenia foetida	OECD 207 (Earthworm, Acute	Analogous conclusion
	OEL OEL	140	100	mg/k g	terrestris	(Earthworm, Acute	conclusion							Toxicity Tests)	
						Toxicity Tests)		Diphenylmethane	diisocvanate.	isomere	s and ho	moloque	s	1000)	
Toxicity to annelids:	EC50	14d	>10 00	mg/k g	Eisenia foetida	OECD 207 (Earthworm,	Analogous conclusion	Toxicity / effect	Endpoin t	Tim e	Valu e	Unit	Organism	Test method	Notes
				-		Acute Toxicity		Other organisms:	NOEC/N OEL	14d	>10 00	mg/k g	Avena sativa	OECD 208 (Terrestrial	
						Tests)						_		Plants, Growth	
o-(p-isocyanatobenz Toxicity / effect	zyl)phenyl i Endpoin	Tim	Valu	Unit	Organism	Test	Notes	12.1. Toxicity to	LC50	96h	>10	mg/l	Brachydanio	Test) OECD 203	
12.1. Toxicity to	t LC50	e 96h	e >10	mg/l	Brachydanio	method OECD 203	Analogous	fish:			00		rerio	(Fish, Acute Toxicity	
fish:			00		rerio	(Fish, Acute Toxicity	conclusion	12.1. Toxicity to	NOEC/N	21d	>10	mg/l	Daphnia	Test) OECD 202	
	EC50	24h	>10	mg/l	Daphnia	Test) OECD 202	Analogous	daphnia:	OEL				magna	(Daphnia sp. Acute	
daphnia:			00		magna	(Daphnia sp. Acute Immobilisati	conclusion	12.1. Toxicity to	EC50	24h	>10	mg/l	Daphnia	Immobilisati on Test) OECD 202	
12.1. Toxicity to	NOEC/N	21d	>10	mg/l	Daphnia	on Test) OECD 202	Analogous	daphnia:	EC30	2411	00	mg/i	magna	(Daphnia sp. Acute	
	OEL	Ziu	210	ilig/i	magna	(Daphnia sp. Acute	conclusion							Immobilisati on Test)	
						Immobilisati on Test)		12.1. Toxicity to algae:	ErC50	72h	>16 40	mg/l	Scenedesm	OECD 201 (Alga,	
12.1. Toxicity to algae:	ErC50	72h	>16 40	mg/l	Scenedesm us	OECD 201 (Alga,	Analogous conclusion				"		subspicatus	Growth Inhibition	
					subspicatus	Growth Inhibition Test)								Test)	



9/ activated

OECD 202 With water

001 0

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COSMO PU-160.180 (COSMOPUR 813) 12.2. Persistence and degradability: OECD 302 C (Inherent Biodegradab Not biodegrada ble, activated sludge 28d According ility -Modified MITI Test (II)) 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).

Not to be expected BCF 42d Cyprinus OECD 305 Bioaccumulative potential: carpio (Bioconcentr ation - Flow-Through 12.5. Results of PBT and vPvB Negative assessment Toxicity to OECD 209 EC50 3h >10 activated sludge mg/l (Activated Sludge, Respiration Inhibition

Toxicity / effect	Endpoin	Tim	Valu	Unit	Organism	Test	Notes
	t	е	е			method	
12.5. Results of							No PBT
PBT and vPvB							substan
assessment							No vPvE
40 4 14 1 177			0.00				substan
12.4. Mobility in	H (Henry)		0,02	Pa*m			
soil: 12.1. Toxicity to	(Henry) LC50	96h	29 >10	3/mol mg/l	Brachydanio	OECD 203	Analogo
fish:	LCSU	9011	00	mg/i	rerio	(Fish, Acute	conclusi
non.			00		16110	Toxicity	Conclusi
						Test)	
12.1. Toxicity to	NOEC/N	21d	>10	mg/l	Daphnia	OECD 202	Analogo
daphnia:	OEL			"	magna	(Daphnia	conclusi
•					, and the second	sp. Acute	
						Immobilisati	
						on Test)	
12.1. Toxicity to	EC50	24h	>10	mg/l	Daphnia	OECD 202	Analogo
daphnia:			00		magna	(Daphnia	conclus
						sp. Acute	
						Immobilisati	
40.4 Tandalanta	5050	72h	40		Scenedesm	on Test)	A I
12.1. Toxicity to algae:	EC50	/2n	>16 40	mg/l	us	OECD 201	Analogo
aiyae.			40		subspicatus	(Alga, Growth	Conclus
					อนมอยเปลเนร	Inhibition	
				1		Test)	

>10 00

>10 00

mg/k g

mg/k g

Other organisms:

Toxicity to annelids:

NOEC/I

NOEC/N OEL

Test (Carbon and Ammonium Oxidation)) OECD 208

(Terrestrial Plants,

Plants, Growth Test) OECD 207 (Earthworm, Acute

Toxicity

Lactuca

Lumbricus terrestris

sativa

12.2. Persistence and degradability:		28d	0	%	activated sludge	OECD 302 C (Inherent Biodegradab ility - Modified MITI Test (III)	With water at the interface, transforms slowly with formation of CO2 into a firm, i
12.3. Bioaccumulative potential:	Log Pow		5,22				A notable biological accumulati on potential has to be expected (LogPow > 3).
12.3. Bioaccumulative potential:	BCF	28d	200		Cyprinus caprio	OECD 305 (Bioconcentr ation - Flow- Through Fish Test)	Not to be expected, Analogous conclusion
Toxicity to bacteria:	EC50	3h	>10 0	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	Analogous conclusion
Other organisms:	NOEC/N OEL	14d	>10 00	mg/k g	Avena sativa	OECD 208 (Terrestrial Plants, Growth Test)	Analogous conclusion
Other organisms:	NOEC/N OEL	14d	>10 00	mg/k g	Lactuca sativa	OECD 208 (Terrestrial Plants, Growth Test)	Analogous conclusion
Toxicity to annelids:	NOEC/N OEL	14d	>10 00	mg/k g	Eisenia foetida	OECD 207 (Earthworm, Acute Toxicity Tests)	Analogous conclusion
Dibutyltin dilaurat	e						

Toxicity / effect	Endpoin	Tim	Valu	Unit	Organism	Test	Notes
	t	е	е			method	
12.1. Toxicity to algae:	EC50	72h	>1	mg/l	Desmodesm us subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		28d	22	%		OECD 301 F (Ready Biodegradab ility - Manometric Respirometr y Test)	Not readily biodegrada ble

Isophthaloyl dichloride							
Toxicity / effect	Endpoin	Tim	Valu	Unit	Organism	Test	Notes
	t	е	е			method	
12.1. Toxicity to	LC50	96h	134	mg/l	Pimephales		
fish:					promelas		
12.1. Toxicity to	EC50	48h	>95	mg/l	Daphnia		Analogous
daphnia:			2		magna		conclusion
12.1. Toxicity to	EC50	96h	>99	mg/l	Selenastrum		Analogous
algae:			6		capricornut		conclusion
					um		

SECTION 13: Disposal considerations

13.1 Waste treatment methods

For the substance / mixture / residual amounts

40.0

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:

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.



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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

Not applicable

General statements

14.1. UN number or ID number n.a. Transport by road/by rail (ADR/RID)

14.2. UN proper shipping name: 14.3. Transport hazard class(es): n a 14.4. Packing group: Classification code: LQ: n.a. n.a

14.5. Environmental hazards: Tunnel restriction code:

Transport by sea (IMDG-code)

14.2. UN proper shipping name:
14.3. Transport hazard class(es):
14.4. Packing group:
Marine Pollutant:
14.5. Environmental hazards: n.a. 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 n.a. Not applicable 14.6. Special precautions for user

Unless specified otherwise, general measures for safe transport must be followed.

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

4,4'-methylenediphenyl diisocyanate

o-(p-isocyanatobenzyl)phenyl isocyanate Diphenylmethanediisocvanate, isomeres and homologues

Diprintylineutratedissocyanate, isomeres and nonlineuges 2,2'-methylenediphenyl diisocyanate Dibutyltin 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

Comply with trade association/occupational health regulations

Directive 2010/75/EU (VOC):

15.2 Chemical safety assessmentA chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections:

These details refer to the product as it is delivered.

Classification in accordance with

Employee instruction/training in handling hazardous materials is required.

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

Evaluation method used

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

The following prinses represent the posted relazand class and Risk Category Code (GRS/C 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. H312 Harmful in contact with skin. H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H331 Toxic 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 Irrit. — Eye irritation
STOT SE — Specific target organ toxicity - single exposure - respiratory tract irritation
Skin Irrit. — Skin irritation
Resp. Sens. — Respiratory sensitization
Skin Sens. — Skin sensitization
Carc. — Carcinogenicity
STOT RE — Specific target organ toxicity - repeated exposure
Acute Tox. — Acute toxicity - inhalation
Skin Corr. — Skin corrosion
Eye Dam. — Serious eye damage
Muta. — Gern 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
Acute Tox. — Acute toxicity - dermal

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

Guidelines on labelling and packaging accurating to the regulation (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).

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:

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.

Adsorbable displant language compounds approximately

Article number

ASTM International (American Society for Testing and Materials)

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

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

body weight

bw CAS Chemical Abstracts Service

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

CLP labelling DMEL

DNEL DOC Dissolved organic carbon

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

(algae, plants)

European Community

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 Institute of Notified Chemical Substances

ELINCS European List of Notified Chemical Substances

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

ErCx, EpCx, ErLx (x = 10, 50) Effect Concentration/Level of x % on inhibition of the growth rate (algae, plants) et cetera

etc. ΕU European Union

EVAL Ethylene-vinyl alcohol copolymer

Fax. Fax number

gen. GHS GWP general Globally Harmonized System of Classification and Labelling of Chemicals Global warming potential Adsorption coefficient of organic carbon in the soil

Koc octanol-water partition coefficient
International Agency for Research on Cancer
International Air Transport Association
International Bulk Chemical (Code) Kow IARC

IMDG-code International Maritime Code for Dangerous Goods incl.

International Maritime Code for Dangerous Goods including, inclusive International Uniform Chemical Information Database International Union for Pure Applied Chemistry Lethal Concentration to 50 % of a test population (Median Lethal Dose) Logarithm of adsorption coefficient of organic carbon in the soil IUCLID IUPAC LC50 LD50

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

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

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

no data available

NIOSH National Institute for Occupational Safety and Health (USA) NLP No-longer-Polymer NOEC, NOEL No Observed Effect Concentration/Level OECD Organisation for Economic Co-operation and Development

org. OSHA

Organisation for Economic Co-operation and Developring organic
Occupational Safety and Health Administration (USA) persistent, bioaccumulative and toxic
Polyethylene
Predicted No Effect Concentration

PBT PE PNEC

parts per million Polyvinylchloride ppm PVC



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

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.

No responsibility.

These statements were made by:
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