

Page 1 of 9

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0010

Revision date / version: 27.07.2021 / 0009 Replacing version dated / version: 27.07.2021 / 0009 Valid from: 01.11.2021 PDF print date: 01.11.2021 COSMO PU-100.380

### Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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

#### 1.1 Product identifier

#### **COSMO PU-100.380**

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

Relevant identified uses of the substance or mixture:

Uses advised against:

No information available at present

#### 1.3 Details of the supplier of the safety data sheet

Weiss Chemie + Technik GmbH & Co. KG Hansastrasse 2 35708 Haiger Tel: +49 (0) 2773 / 815-0 msds@weiss-chemie de www.weiss-chemie.de

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

#### 1.4 Emergency telephone number

Emergency information services / official advisory body:

#### Telephone number of the company in case of emergencies:

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

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

#### 2.1 Classification of the substance or mixture

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

Hazard category	Hazard statement
2	H319-Causes serious eye irritation.
3	H335-May cause respiratory irritation.
2	H315-Causes skin irritation.
1	H334-May cause allergy or asthma symptoms or breathing difficulties if inhaled.
1	H317-May cause an allergic skin reaction.
2	H351-Suspected of causing cancer.
2	H373-May cause damage to organs through prolonged or repeated exposure by inhalation (respiratory system).
2	2

#### 2.2 Label elements

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





#### Danger

H319-Causes serious eve 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.

Diphenylmethanediisocyanate, isomeres and homologues

4,4'-methylenediphenyl diisocyanate o-(p-isocyanatobenzyl)phenyl isocyanate 2,2'-methylenediphenyl diisocyanate

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not

included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

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

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

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

#### 3.1 Substances

3.2 Mixtures	
Diphenylmethanediisocyanate, isomeres and homologues	
Registration number (REACH)	***
Index	***
EINECS, ELINCS, NLP, REACH-IT List-No.	
CAS	9016-87-9
content %	10-<25
Classification according to Regulation (EC) 1272/2008	Acute Tox. 4, H332
(CLP), M-factors	Skin Irrit. 2, H315
	Eye Irrit. 2, H319
	Resp. Sens. 1, H334
	Skin Sens. 1, H317
	Carc. 2, H351
	STOT SE 3, H335
	STOT RE 2, H373 (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
4,4'-methylenediphenyl diisocyanate	

	ATE (as inhalation): 1,5 mg/l/4h
	-
4,4'-methylenediphenyl diisocyanate	
Registration number (REACH)	01-2119457014-47-XXXX
Index	615-005-00-9
EINECS, ELINCS, NLP, REACH-IT List-No.	202-966-0
CAS	101-68-8
content %	1-<10
Classification according to Regulation (EC) 1272/2008	Acute Tox. 4, H332
(CLP), M-factors	Skin Irrit. 2, H315
	Eye Irrit. 2, H319
	Resp. Sens. 1, H334
	Skin Sens. 1, H317
	Carc. 2, H351
	STOT SE 3, H335
	STOT RE 2, H373 (respiratory system) (as
	inhalation)
Specific Concentration Limits and ATE	Skin Irrit. 2, H315: >=5 %
	Eye Irrit. 2, H319: >=5 %
	Resp. Sens. 1, H334: >=0,1 %
	STOT SE 3, H335: >=5 %
	ATE (as inhalation, Aerosol): 1,5 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-<5
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

2119927323 <sub>*</sub> 43 <sub>*</sub> XXXX		
2110027323-43-XXXX		
01-2119927323-43-XXXX		
615-005-00-9		
219-799-4		
6-05-2		
-<1		
ite Tox. 4, H332		
n Irrit. 2, H315		
Irrit. 2, H319		
sp. Sens. 1, H334		
n Sens. 1, H317		
rc. 2, H351		
OT SE 3, H335		
OT RE 2, H373 (respiratory system) (as		
alation)		
n Irrit. 2, H315: >=5 %		
e Irrit. 2, H319: >=5 %		
sp. Sens. 1, H334: >=0,1 %		
OT SE 3, H335: >=5 %		
E (as inhalation, Aerosol): 1,5 mg/l		

Impurities, test data and additional information may have been taken into account in classifying and labelling

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.

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

#### Eve contact



Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0010

Revision date / version: 27.07.2021 / 0009 Replacing version dated / version: 27.07.2021 / 0009 Valid from: 01.11.2021 PDF print date: 01.11.2021 COSMO PU-100.380

Remove contact lenses

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

Ingestion

Rinse the mouth thoroughly with water.

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

4.2 Most important symptoms and effects, both acute and delayed

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1. The following may occur:

Dermatitis (skin inflammation)

Drying of the skin.

Allergic contact eczema
Discoloration of the skin
Irritant to mucosa of the nose and throat

Coughing

Effect on the central nervous system

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

In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours

4.3 Indication of any immediate medical attention and special treatment needed

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

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 Foam

Unsuitable extinguishing media

High volume water jet
5.2 Special hazards arising from the substance or mixture

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

Isocyanates

Hydrocyanic acid (hydrogen cyanide)

Toxic gases
Danger of bursting (explosion) when heated

5.3 Advice for firefighters

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

According to size of fire

Full protection, if necessary

Cool container at risk with water.

Dispose of contaminated extinction water according to official regulations

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

## 6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

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

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

section 8 for suitable protective equipment and material specifications.

6.2 Environmental precautions

It 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

ous earth, sawdust) and Soak up with absorbent material (e.g. universal binding agent, sand, diatoma

dispose of according to Section 13.

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

Now to start of a few days in an unclosed container of 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.

Avoid initialization 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.

7.3 Specific end use(s)

## SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

Chemical Name

Monitoring procedures:

BMGV:

WEL-TWA: 4 mg/m3 (respirable dust), 10 mg/m3 (total inhalable dust)

	Control parameter					
®	Chemical Name	Diphenyln	nethanediisocyanate, isomo	eres and homologue	es	Content %:10- <25
all (a	L-TWA: 0,02 mg/m3 (Iso as -NCO))	cyanates,	WEL-STEL: 0,07 mg/ all (as -NCO))	m3 (Isocyanates,		
	itoring procedures:					
	GV: 1 µmol isocyanate-de he end of the period of exp		ne/mol creatinine in urine	Other information (Isocyanates, all		)
				· · · · · ·	` '	
3B)	Chemical Name		ylenediphenyl diisocyanate			Content %:1-<10
all (a	L-TWA: 0,02 mg/m3 (Iso as -NCO))	cyanates,	WEL-STEL: 0,07 mg/ all (as -NCO))			
BM((Att	itoring procedures:  3V: 1 µmol isocyanate-dhe end of the period of exp  Chemical Name  L-TWA: 0,02 mg/m3 (Iso	o-(p-isocy	ISO 16702 (Workplace aii isocyanate groups in air u liquid chromatography) - 2 (MDHS 25/4 (Organic isoc sampling either onto 2-(1-fibre filters followed by sol analysis using high perfor EU project BC/CEN/ENTF NIOSH 5521 (ISOCYANA NIOSH 5522 (ISOCYANA NIOSH 5525 (ISOCYANA OSHA 18 (Diisocyanates OSHA 47 (Methylene Bispie/mol creatinine in urine	sing 2-(1-methoxypl 0007 yanates in air – Lab methoxyphenylpipe went desorption or it mance liquid chrom (000/2002-16 card TES, MONOMERIC TES) - 1998 TES, TOTAL (MAP) 2,4-TDI and MDI) - vibenyl Isocyanate (it Other information (Isocyanates, all	henylpipera oratory me razine coat nto impinge atography) 7-4 (2004) 5) - 1994 0)) - 2003 1980 MDI)) - 198 n: Sen	azine and thod using ed glass ers and - 2015 -
	as -NCO))		all (as -NCO))			
	itoring procedures:			0.1	_	
	GV: 1 µmol isocyanate-d he end of the period of exp		ne/moi creatinine in urine	Other information (Isocyanates, all		)
B)	Chemical Name	2,2'-methy	ylenediphenyl diisocyanate			Content %:0,1- <1
all (a	L-TWA: 0,02 mg/m3 (Iso as -NCO))	cyanates,	WEL-STEL: 0,07 mg/ all (as -NCO))	m3 (Isocyanates,		
	itoring procedures:	anima dia!		Other information	n: Sen	
	SV: 1 µmol isocyanate-double end of the period of exp		ne/moi creatinine in urine	(Isocyanates, all		)
3B)	Chemical Name	Silica, am	orphous			Content %:
2,4 ı	L-TWA: 6 mg/m3 (total ir mg/m3 (resp. dust)	nh. dust),	WEL-STEL:			
	itoring procedures:					
BMC	GV:			Other information	n:	

Calcium carbonate

Other information:

Content

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	
	sporadic					
	(intermittent) release					
Consumer	Human - oral	Short term,	DNEL	20	mg/kg	
		systemic effects			bw/day	
Consumer	Human - dermal	Short term,	DNEL	17,2	mg/cm	
		local effects			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				



Page 3 of 9

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0010

Revision date / version. 1.11..2021 / 0010 Replacing version dated / version: 27.07.2021 / 0009 Valid from: 01.11.2021 PDF print date: 01.11.2021 COSMO PU-100.380

Area of application	Exposure route / Environmental	Effect on health	Descri ptor	Valu e	Unit	Note
	compartment Environment -		PNEC	1	mg/l	
	freshwater		FINEC	'	IIIg/I	
	Environment -		PNEC	0,1	mg/l	
	marine		FINEC	0,1	IIIg/I	
	Environment -		PNEC	1	mg/l	
	sewage treatment		TNEC		mg/i	
	Environment - soil		PNEC	1	mg/kg	
					dw	
	Environment -		PNEC	10	mg/l	
	sporadic				3	
	(intermittent) release					
Consumer	Human - oral	Short term,	DNEL	20	mg/kg	
		systemic effects			bw/day	
Consumer	Human - dermal	Short term,	DNEL	17,2	mg/cm	
		local effects			2	
Consumer	Human - dermal	Short term,	DNEL	25	mg/kg	
		systemic effects			bw/d	
Consumer	Human - inhalation	Short term,	DNEL	0,05	mg/m3	
		local effects				
Consumer	Human - inhalation	Short term,	DNEL	0,05	mg/m3	
		systemic effects				
Consumer	Human - inhalation	Long term,	DNEL	0,02	mg/m3	
		local effects		5		
Consumer	Human - inhalation	Long term,	DNEL	0,02	mg/m3	
		systemic effects		5		
Workers /	Human - dermal	Short term,	DNEL	50	mg/kg	
employees		systemic effects	51151	00.7	bw/d	
Workers /	Human - dermal	Short term,	DNEL	28,7	mg/cm	
employees		local effects	51151	0.4	2	
Workers /	Human - inhalation	Short term,	DNEL	0,1	mg/m3	
employees		systemic effects	BNE		/ 0	
Workers /	Human - inhalation	Short term,	DNEL	0,1	mg/m3	
employees	I become the belief on	local effects	DNFL	0.05		
Workers /	Human - inhalation	Long term,	DNEL	0,05	mg/m3	
employees Workers /	Human - inhalation	systemic effects	DNFL	0.05	ma as /ma 2	
	numan - innaiation	Long term, local effects	DINEL	0,05	mg/m3	
employees		local ellects				

2,2'-methylenediphenyl diisocyanate									
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								
Consumer	(intermittent) release Human - oral	Short term.	DNEL	20	mg/kg				
Consumer	numan - orai	systemic effects	DINEL	20	bw/d				
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	mg/kg				
Consumer	Human - dermai	systemic effects	DINEL	25	bw/d				
Consumer	Human - inhalation	Short term.	DNEL	0.05	mg/m3				
Consumor	Tranian initiation	systemic effects	DIVLE	0,00	mg/mo				
Consumer	Human - inhalation	Short term.	DNFL	0,05	mg/m3				
Condumor	Transaction	local effects	5.122	0,00	g,o				
Consumer	Human - inhalation	Long term,	DNEL	0.02	mg/m3				
		systemic effects		5	3				
Consumer	Human - inhalation	Long term,	DNEL	0,02	mg/m3				
		local 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/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	BNE	0.05					
Workers /	Human - inhalation	Long term,	DNEL	0,05	mg/m3				
employees		local effects							

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 Cdg restraine in urine (Directive 2004/37/CE). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference particl).

(Directive 2004/37(CE). | WEL-STEL = WORDFLOW Exposure Interest Proceedings of the Control of th

#### 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

Applies only if maximum permissible exposure values are listed here.

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

These are specified by e.g. EN 14042.

EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of

exposure to chemical and biological agents"

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

General hygiene measures for the handling of chemicals are applicable Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

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

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

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

Minimum layer thickness in mm

>=0.35

Permeation time (penetration time) in minutes:

= 480

>= 480
The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions.
The recommended maximum wearing time is 50% of breakthrough time.

Protective hand cream recommended.

Skin protection - Other:

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.

Final selection of glove material must be made taking the breakthrough times, permeation rates and

degradation into account.

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

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

before use.

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

### 8.2.3 Environmental exposure controls

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

#### 9.1 Information on basic physical and chemical properties

Paste, Liquid Beige Odour: Characteristic

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.

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

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

Kinematic viscosity: Solubility:

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

There is no information available on this parameter.

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

1,57 g/cm<sup>3</sup>
There is no information available on this parameter.
Does not apply to liquids.

Does not apply to mixtures

9.2 Other information

Product is not explosive Explosives

Oxidising liquids: Bulk density:

### **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 wit

Alcohols

Amines Bases

Acids Water

Developement of:

Carbon dioxide

CO2 formation in closed tanks causes pressure to rise. se will result in danger of bursting

#### 10.4 Conditions to avoid

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

## 10.5 Incompatible materials

See also section 7

Acids Bases



Page 4 of 9
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
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COSMO PU-100.380

Water 10.6 Hazardous decomposition products See also section 5.2 No decomposition when used as directed.

## **SECTION 11: Toxicological information**

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

Possibly more information	on on health	effects, see	Section 2.1	(classification	).	
COSMO PU-100.380				`	,	
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
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.

Toxicity / effect	Endpo int	Value	Unit	Organis m	Test method	Notes
Acute toxicity, by oral	LD50	>5000	mg/k	Rat	OECD 401	
route:			g		(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 judgemer
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 Analogou conclusio Does not conform with EU classifica n.
Respiratory or skin sensitisation:				Mouse	OECD 429 (Skin Sensitisation - Local Lymph Node Assay)	Yes (skin contact), Analogou conclusio
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	No (skin contact)
Respiratory or skin sensitisation:				Rat		Yes (inhalatio
Germ cell mutagenicity:				Rat	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative Analogou conclusio
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 - repeated exposure (STOT-RE):	LOAE L	1		Rat	OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies)	Aerosol, Analogou conclusio
Specific target organ toxicity - repeated exposure (STOT-RE):	NOAE L	0,2		Rat	OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies)	Aerosol, Analogou conclusio
Aspiration hazard:						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, Positive

						Positive
4 41 mathrilana dinbany	l dila a susan	-1-				
4,4'-methylenedipheny Toxicity / effect	Endpo	Value	Unit	Organia	Test method	Notes
l oxicity / effect	int	value	Unit	Organis	rest method	Notes
Acute toxicity, by oral	LD50	>2000	mg/k	m Rat	Regulation (EC)	Analogous
route:	LDS0	>2000	g g	Nat	440/2008 B.1	conclusion
Toute.			9		(ACUTE ORAL	COTTOIGGIOTI
					TOXICITY)	
Acute toxicity, by	LD50	>9400	mg/k	Rabbit	OECD 402	Analogous
dermal route:	LDOO	23400	g	Rabbit	(Acute Dermal	conclusion
domai rodio.			<sup>9</sup>		Toxicity)	CONTOIGGION
Acute toxicity, by	LC50	0,368	mg/l/	Rat	OECD 403	Aerosol,
inhalation:			4h		(Acute Inhalation	Does not
					Toxicity)	conform
						with EU
						classificatio
						n.
Acute toxicity, by	ATE	1,5	mg/l/			Aerosol,
inhalation:			4h			Expert
						judgement.
Skin				Rabbit	OECD 404	Skin Irrit.
corrosion/irritation:					(Acute Dermal	2,
					Irritation/Corrosio	Analogous
					n)	conclusion
Respiratory or skin				Guinea		Yes
sensitisation:				pig Mouse	OECD 429 (Skin	(inhalation) Skin Sens.
Respiratory or skin sensitisation:				iviouse		1
sensitisation:					Sensitisation - Local Lymph	
					Node Assay)	
Germ cell			+	Salmonel	OECD 471	Negative,
mutagenicity:				la	(Bacterial	Analogous
matagementy.				typhimuri	Reverse	conclusion
				um	Mutation Test)	CONTOIGGION
Germ cell				Rat	OECD 474	Negativem
mutagenicity:					(Mammalian	ale
, ,					Erythrocyte	
					Micronucleus	
					Test)	
Germ cell				Rat	OECD 489 (In	Negativem
mutagenicity:					Vivo Mammalian	ale
					Alkaline Comet	
					Assay)	
Carcinogenicity:				Rat	OECD 453	Aerosol,
					(Combined	Analogous
					Chronic	conclusion,
					Toxicity/Carcinog	Carc. 2
Depre dustine toxicitus	NOAE	4-12		Rat	enicity Studies) OECD 414	Aerosol.
Reproductive toxicity:	L	4-12	mg/m 3	Rat	(Prenatal	Aerosoi, Analogous
	-		3		Developmental	conclusion
					Toxicity Study)	COTICIUSION
Specific target organ					Toxicity Otday)	May cause
toxicity - single						respiratory
exposure (STOT-SE),						irritation.
inhalative:						
Specific target organ	LOAE	1	mg/m	Rat	OECD 453	Aerosol,
toxicity - repeated	l L		3		(Combined	Analogous
exposure (STOT-RE),					Chronic	conclusion,
inhalat.:					Toxicity/Carcinog	Target
					enicity Studies)	organ(s):
						respiratory
						system
Specific target organ	NOAE	0,2	mg/m	Rat	OECD 453	Aerosol,
toxicity - repeated	L		3		(Combined	Analogous
exposure (STOT-RE),					Chronic	conclusion,
inhalat.:					Toxicity/Carcinog	Target
					enicity Studies)	organ(s):
						respiratory
						system

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)	Analogo conclusio
Acute toxicity, by dermal route:	LD50	>9400	mg/k g	Rabbit	OECD 402 (Acute Dermal Toxicity)	Analogo conclusion
Acute toxicity, by inhalation:	LC50	0,387	mg/l/ 4h	Rat		Aerosol, Does no conform with EU classifica n.
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
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosio n)	Not irrita Analogo conclusion Does not conform with EU classifica n.
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	No (skin contact), Analogo conclusio



Page 5 of 9
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision date / version: 01.11.2021 / 0010
Replacing version dated / version: 27.07.2021 / 0009
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COSMO PU-100.380

Respiratory or skin				Guinea		Yes
sensitisation:				pig		(inhalation
						Analogous
						conclusion
Respiratory or skin				Mouse	OECD 429 (Skin	Yes (skin
sensitisation:					Sensitisation -	contact),
					Local Lymph	Analogous
					Node Assay)	conclusion
Germ cell				Salmonel	OECD 471	Negative,
mutagenicity:				la	(Bacterial	Analogous
,				typhimuri	Reverse	conclusion
				um	Mutation Test)	
Germ cell				Rat	OECD 474	Negative,
mutagenicity:				1101	(Mammalian	Analogous
matagornony.					Erythrocyte	conclusion
					Micronucleus	male
					Test)	male
Carcinogenicity:			+	Rat	OECD 453	Aerosol.
Caroniogenicity.				i\ai	(Combined	Analogous
					Chronic	conclusion
						Carc. 2
					Toxicity/Carcinog	Carc. 2
	11015	4.40		<b>D</b> .	enicity Studies)	
Reproductive toxicity:	NOAE	4-12	mg/k	Rat	OECD 414	Aerosol,
	L		g		(Prenatal	Analogous
					Developmental	conclusion
					Toxicity Study)	
Symptoms:						mucous
						membrane
						irritation,
						breathing
						difficulties
						coughing,
						asthmatic
						symptoms
Specific target organ	NOAE	0,2	mg/m	Rat	OECD 453	Aerosol,
toxicity - repeated	L		3		(Combined	Analogous
exposure (STOT-RE),					Chronic	conclusion
inhalat.:					Toxicity/Carcinog	Target
					enicity Studies)	organ(s):
					,	respirator
						system
Specific target organ	LOAE	1	mg/m	Rat	OECD 453	Aerosol.
toxicity - repeated	L	-	3		(Combined	Analogous
exposure (STOT-RE),	-				Chronic	conclusion
inhalat.:					Toxicity/Carcinog	Target
mindide.					enicity Studies)	organ(s):
					ornoity Otudios)	respiratory
						system

2,2'-methylenedipheny Toxicity / effect	Endpo	Value	Unit	Organis	Test method	Notes
Toxiony / circut	int	Value	0	m	restinication	110103
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
Acute toxicity, by inhalation:	LC50	0,527	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			Aerosol, Expert judgemer
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)	Slightly irritant
Respiratory or skin sensitisation:				Guinea pig		Yes (inhalatio Analogo conclusio
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 Analogou conclusio
Carcinogenicity:				Rat	OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies)	Analogou conclusio Aerosol, Carc. 2
Reproductive toxicity:	NOAE L	4-12	mg/m 3	Rat	OECD 414 (Prenatal Developmental Toxicity Study)	No indication of such a effect., Aerosol, Analogou conclusio

Symptoms:						respiratory distress, coughing, mucous membrane irritation
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
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

Toxicity / effect	Endpo	Value	Unit	Organis	Test method	Notes
	int			m		
Acute toxicity, by oral	LD50	>5000	mg/k	Rat	OECD 423	
route:			g		(Acute Oral	
					Toxicity - Acute	
					Toxic Class	
					Method)	
Acute toxicity, by	LD50	> 2000	mg/k	Rat	OECD 402	
dermal route:			g		(Acute Dermal	
					Toxicity)	
Skin				Rabbit	OECD 404	Not irritan
corrosion/irritation:					(Acute Dermal	
					Irritation/Corrosio	
					n)	
Serious eye				Rabbit	OECD 405	Not irritan
damage/irritation:					(Acute Eye	
					Irritation/Corrosio	
					n)	
Germ cell					OECD 471	Negative
mutagenicity:					(Bacterial	
					Reverse	
					Mutation Test)	
Aspiration hazard:						No

Toxicity / effect	Endpo	Value	Unit	Organis	Test method	Notes
	int			m		
Acute toxicity, by oral	LD50	>2000	mg/k	Rat	OECD 420	
route:			g		(Acute Oral	
					toxicity - Fixe	
					Dose Procedure)	
Acute toxicity, by oral	LD50	> 5000	mg/k	Rat		
route:			g			
Acute toxicity, by	LD50	>2000	mg/k	Rat	OECD 402	
dermal route:			g		(Acute Dermal	
					Toxicity)	
Acute toxicity, by	LC50	>3	mg/l/	Rat	OECD 403	
inhalation:			4h		(Acute Inhalation	
					Toxicity)	
Skin				Rabbit	OECD 404	Not irritant
corrosion/irritation:					(Acute Dermal	
					Irritation/Corrosio	
				5 11.5	n) OECD 405	
Serious eye				Rabbit		Not irritant,
damage/irritation:					(Acute Eye	Mechanical
					Irritation/Corrosio	irritation
Daniel de la constitución			1		n)	possible.
Respiratory or skin sensitisation:						No (skin
Germ cell					in vitro	contact)
					III VILIO	Negative
mutagenicity: Carcinogenicity:			-			Negative,
Carcinogenicity.						administere
						d as Ca-
						lactate
Reproductive toxicity:			+			Negative,
Reproductive toxicity.						administere
						d as Ca-
						carbonate

## 11.2. Information on other hazards

COSMO PU-100.380						
Toxicity / effect	Endpo int	Value	Unit	Organis m	Test method	Notes
Endocrine disrupting properties:						Does not apply to mixtures.
Other information:						No other relevant information available on adverse effects on health.

## **SECTION 12: Ecological information**

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

COSMO PU-100.3	80						
Toxicity / effect	Endpoin	Tim	Valu	Unit	Organism	Test	Notes
	t	е	е			method	
12.1. Toxicity to							n.d.a.
fish:							
12.1. Toxicity to							n.d.a.
daphnia:							
12.1. Toxicity to							n.d.a.
algae:							



3B)															
Page 6 of 9 Safety data sheet a Revision date / ver Replacing version Valid from: 01.11.2 PDF print date: 01. COSMO PU-100.3	rsion: 01.11.20 dated / version 2021 .11.2021	21 / 0010	) .		5, Annex II			Toxicity to bacteria:	EC50	3h	>10 0	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and	
12.2. Persistence and degradability:							With water at the interface, transforms slowly with	Other organisms:	NOEC/N OEL	14d	>10 00	mg/k g	Lactuca sativa	Ammonium Oxidation)) OECD 208 (Terrestrial Plants,	
							formation of CO2 into a firm, insoluble reaction	Toxicity to annelids:	NOEC/N OEL	14d	>10 00	mg/k g	Lumbricus terrestris	Growth Test) OECD 207 (Earthworm, Acute	
							product with a high melting							Toxicity Tests)	
							point (polycarba mide).	4,4'-methylenedip Toxicity / effect	henyl diisocy Endpoin	/anate Tim e	Valu e	Unit	Organism	Test method	Notes
							According to	Other information:		е	е			metriou	According to
							experience available to date, polycarbam ide is inert and non- degradable								experience available to date, polycarbam ide is inert and non- degradable ., With
12.3. Bioaccumulative potential:							n.d.a.								water at the interface,
12.4. Mobility in soil: 12.5. Results of							n.d.a.								transforms slowly with formation
PBT and vPvB assessment 12.6. Endocrine							n.d.a.								of CO2 into a firm, insoluble
disrupting properties:															reaction product
12.7. Other adverse effects:							n.d.a.								with a high melting point
Diphenylmethane Toxicity / effect	Endpoin t	, isomere Tim e	s and ho Valu e	mologue: Unit	Organism	Test method	Notes	12.4. Mobility in	Н		0,02	Pa*m			(polycarba mide).
Other organisms:	NOEC/N OEL	14d	>10 00	mg/k g	Avena sativa	OECD 208 (Terrestrial Plants, Growth Test)		soil: 12.1. Toxicity to fish:	(Henry) LC50	96h	29 >10 00	3/mol mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity Test)	Analogous conclusion
12.1. Toxicity to fish:	LC50	96h	>10 00	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity Test)		12.2. Persistence and degradability:		28d	0	%		OECD 302 C (Inherent Biodegradab ility -	Not biodegrada ble, With water at
12.1. Toxicity to daphnia:	NOEC/N OEL	21d	>10	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisati on Test)								Modified MITI Test (II))	the interface, transforms slowly with formation
12.1. Toxicity to daphnia:	EC50	24h	>10 00	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisati on Test)									of CO2 into a firm, insoluble reaction product
12.1. Toxicity to algae:	ErC50		>16 40		Scenedesm us subspicatus	OECD 201 (Alga, Growth Inhibition Test)									with a high melting point (polycarba mide).,
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-								According to experience available to date, polycarbam ide is inert and non-degradable Analogous
							degradable ., With water at	12.1. Toxicity to	EC50	24h	>10	mg/l	Daphnia	OECD 202	conclusion  Analogous
							the interface, transforms slowly with	daphnia:		04.1	00		magna	(Daphnia sp. Acute Immobilisati on Test)	conclusion
							formation of CO2 into a firm, insoluble reaction	12.1. Toxicity to daphnia:	NOEC/N OEL	21d	>10	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisati on Test)	Analogous conclusion
							product with a high melting point (polycarba	12.3. Bioaccumulative potential:	Log Pow		5,22				A notable biological accumulati on potential
						l .	mide).							I	has to be
12.3. Bioaccumulative potential:	BCF	42d	<14		Cyprinus carpio	OECD 305 (Bioconcentr ation - Flow-	Not to be expected								expected (LogPow > 3).
Bioaccumulative	BCF	42d	<14			(Bioconcentr	Not to be	12.1. Toxicity to algae:	ErC50	72h	>16 40	mg/l	Desmodesm us subspicatus	OECD 201 (Alga, Growth Inhibition Test)	(LogPow >



GB)
Fage 7 of 9
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision date / version: 01.11.2021 / 0010
Replacing version dated / version: 27.07.2021 / 0009
Valid from: 01.11.2021
PDF print date: 01.11.2021
COSMO PU-100.380

COSINO 1 0-100.30	30						
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Other information:	AOX						Does not contain any organically bound halogens which can contribute to the AOX value in waste water.
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	Lactuca sativa	OECD 208 (Terrestrial Plants, Growth Test)	Analogous conclusion
Other organisms:	NOEC/N OEL	14d	>10 00	mg/k g	Avena sativa	OECD 208 (Terrestrial Plants, Growth Test)	Analogous conclusion
Toxicity to annelids:	NOEC/N OEL	14d	> 100 0	mg/k g	Lumbricus terrestris	OECD 207 (Earthworm, Acute Toxicity Tests)	Analogous conclusion
Toxicity to annelids:	EC50	14d	>10 00	mg/k g	Eisenia foetida	OECD 207 (Earthworm, Acute Toxicity Tests)	Analogous conclusion

fish:    Dopinia   Cirish, Acute   Conclui	Toxicity / effect	Endpoin	Tim	Valu	Unit	Organism	Test	Notes
fish:    Dopinia   Cirish, Acute   Conclui								
daphnia:    Doublist		LC50	96h		mg/l		(Fish, Acute Toxicity	Analogous conclusion
daphnia:  OEL  magna  magna  (Daphnia sp. Acute Immobilisati on Test)  12.1. Toxicity to algae:  12.2. Persistence and degradability:  12.2. Persistence and degradability:  12.3. Bioaccumulative potential:  DEC  Toxicity to algae:  Scenedesm us OECD 201 Analog conclus Growth Inhibition Test)  OECD 302 C (Inherent Biodegradability Conclus Milit Test (II))  Modified Milit Test (III)  Copyrinus Caprio OECD 305 Interest of the service of the		EC50	24h		mg/l		(Daphnia sp. Acute Immobilisati	Analogous conclusion
algae:  40 us subspicatus (Alga, Growth Inhibition Test)  12.2. Persistence and degradability:  28d 0 % OECD 302 C (Inherent Biodegradab lility Modified MTIT Test (III))  40 Modified MTIT Test (III))  50 Accord to experie available to date the interfact transfol slowly formation of CO2.  60 Accord to experie available to date the interfact transfol slowly formation of CO2.  70 Accord to experie available to date the interfact transfol slowly formation of CO2.  81 Accord to experie available to date the interfact transfol slowly formation of CO2.  82 Accord to experie available to date the interfact transfol slowly formation of CO2.  83 Accord to experie available to date the interfact transfol slowly formation of CO2.  84 Bioaccumulative potential:  85 Accord (III))  86 Accord to experie available to date the interfact transfol slowly formation of CO2.  86 Accord (III)  86 Accord to experie available to date the interfact transfol slowly formation of CO2.  86 Accord (III)  86 Accord (III)  86 Accord (III)  87 Accord (III)  87 Accord (III)  88 Accord (III)  88 Accord (III)  89 Accord (III)  80 Accord (III)  81 A			21d	>10	mg/l		(Daphnia sp. Acute Immobilisati	Analogou conclusio
Persistence and degradability:    C (Inherent Biodegradab ling)   Divided Mility   Modified Conclusion   Mility   Modified Mility   Modifi	algae:	ErC50		40	-	us	(Alga, Growth Inhibition Test)	Analogou conclusio
Bioaccumulative caprio (Bioconcentr atton - Flow Analog Through conclus	Persistence and degradability:				%		C (Inherent Biodegradab iilty - Modified MITI Test (II))	biodegrac ble, Analogou conclusion According to experienc available to date, polycarba ide is iner and non- degradab ., With water at the interface, transform slowly wit formation of CO2 into a firm insoluble reaction product with a hig melion point (polycarba mide).
Fish Test)	Bioaccumulative	BCF	28d	200			(Bioconcentr ation - Flow- Through	Not to be expected, Analogou conclusion
12.4. Mobility in H 0,02 Pa*m soil: (Henry) 29 3/mol								

12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
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

annelids:	OEL	140	>10 00	mg/k g	foetida	(Earthworm, Acute Toxicity Tests)	conclusion
2,2'-methylenedip Toxicity / effect	henyl diisocy Endpoin	anate Tim	Valu	Unit	Organism	Test	Notes
	t	е	e	Ollic	Organism	method	
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
12.4. Mobility in soil:	H (Henry)		0,02 29	Pa*m 3/mol			
12.1. Toxicity to fish:	LC50	96h	>10 00	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute 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
12.2. Persistence and degradability:		28d	0	%	activated sludge	OECD 302 C (Inherent Biodegradab ility - Modified MITI Test (II))	With water at the time time time time time time time tim
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



Page 8 of 9
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision date / version: 01.11.2021 / 0010
Replacing version dated / version: 27.07.2021 / 0009
Valid from: 01.11.2021
PDF print date: 01.11.2021
COSMO PU-100.380

Other organisms:	NOEC/N	14d	>10	mg/k	Lactuca	OECD 208	Analogous
_	OEL		00	g	sativa	(Terrestrial	conclusion
				-		Plants,	
						Growth	
						Test)	
Toxicity to	NOEC/N	14d	>10	mg/k	Eisenia	OEĆD 207	Analogous
annelids:	OEL		00	g	foetida	(Earthworm,	conclusion
				"		Acute	
						Toxicity	
						Tests)	

Silica, amorphous	Silica, amorphous						
Toxicity / effect	Endpoin t	Tim e	Valu e	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	EC0	96h	>10 000	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	EC0	24h	>10 00	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisati on Test)	
12.1. Toxicity to algae:	ErC50	72h	>=1 000 0	mg/l	Scenedesm us subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:							Inorganic products cannot be eliminated from water through biological purification methods.
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance

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

#### **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**

n.a.

General statements 14.1. UN number or ID number:

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:

n.a. n.a. n.a. Not applicable LQ: 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: 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 Regulations

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

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

Observe restrictions:

Observe restrictions:

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

Regulation (EC) No 1907/2006, Annex XVII

Diphenylmethanediisocyanate, isomeres and homologues

4,4'-methylenediphenyl diisocyanate

o-(p-isocyanatobenzyl)phenyl isocyanate
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):

## 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

## **SECTION 16: Other information**

Revised sections:

These details refer to the product as it is delivered. Employee instruction/training in handling hazardous materials is required.

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

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

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3). H373 May cause damage to organs through prolonged or repeated exposure by inhalation. H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.



Page 9 of 9

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0010

Revision date / version: 27.07.2021 / 0009 Replacing version dated / version: 27.07.2021 / 0009 Valid from: 01.11.2021 PDF print date: 01.11.2021 COSMO PU-100.380

H332 Harmful if inhaled.

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

Eve Irrit. - Eve irritation

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

Skill Detils. — Only Still Selection 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

Safety data sheets for the constituent substances

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 wa (Germany).

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

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

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

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

#### 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 approximately

ASTM International (American Society for Testing and Materials)
ATE Acute Toxicity Estimate
BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)

BAuA

Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health BAUA Bulliussansian for Frederick And Safety, Germany)
BCF Bioconcentration factor
BSEF The International Bromine Council

bw CAS CLP body weight Chemical Abstracts Service

Ches Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)

CMR carcinogenic, mutagenic, reproductive toxic

DMEL Derived Minimum Effect Level

DNEL Derived No Effect Level

DOC Dissolved reproductive toxic

ow 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)

EC 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 Inventory of Existing Commercial Chemical Substances

EN EPA

European Norms
United States Environmental Protection Agency (United States of America)
Frl x (x = 10.50)

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

(algae, plants)
etc. et cetera
EU European Union

EVAL Ethylene-vinyl alcohol copolymer

Fax. Fax number

gen. GHS

general
Globally Harmonized System of Classification and Labelling of Chemicals

GHS Globally Harmonized System of Classification and GWP Global warming potential Adsorption coefficient of organic carbon in the soil octanol-water partition coefficient International Agency for Research on Cancer IATA International Agency for Research on Cancer IATA International Air Transport Association IBC (Code) International Bulk Chemical (Code) International Maritime Code for Dangerous Goods including, inclusive

incl. IUCLID International Uniform Chemical Information Database

INDEALD 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

LQ Kow, Log Pow Logarithm of octanol-water partition coefficient

LQ Limited Quantities

MARPOL International Convention for the Prevention of Marine Pollution from Ships

not applicable not available not checked

n.d.a. no data available National Institute for Occupational Safety and Health (USA) NIOSH

NLP No-longer-Polymer

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

PBT persistent, bioaccumulative and toxic

PE PNEC

Polyethylene
Predicted No Effect Concentration
parts per million
Polyvinylchloride

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)

REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.

RiD 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

Total organic carbon.

Total organic carbon
United Nations Recommendations on the Transport of Dangerous Goods
Volatile organic compounds
very persistent and very bioaccumulative UN RTDG

VOC vPvB

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: Chemical Check Platz 1-7, D-32839 Steinheim, Tel.: +49 5233 94 17 0, Fax: +49 5233 94 17 90

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