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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0011

Revision date / version: 13.08.2021 / 0010 Replacing version dated / version: 13.08.2021 / 0010 Valid from: 01.11.2021 PDF print date: 01.11.2021 COSMO PU-205.350

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-205.350

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

Relevant identified uses of the substance or mixture:

Uses advised against: No information available at present

1.3 Details of the supplier of the safety data sheet

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

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

1.4 Emergency telephone number

Emergency information services / official advisory body:

Telephone number of the company in case of emergencies:

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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) 1272/2008 (CLP) Hazard class Hazard statement

Hazard category Acute Tox. 4 H332-Harmful if inhaled. STOT SE

H335-May cause respiratory irritation. H317-May cause an allergic skin reaction. 3 Skin Sens.

2.2 Label elements

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



Warning

H332-Harmful if inhaled. H335-May cause respiratory irritation. H317-May cause an allergic skin

P261-Avoid breathing vapours or spray. P280-Wear protective gloves. P302+P352-IF ON SKIN: Wash with plenty of water and soap. P304+P340-IF INHALED: Remove person to fresh air and keep comfortable for breathing. P312-Call a POISON CENTRE / doctor if

EUH204-Contains isocyanates. May produce an allergic reaction.

Hexamethylene-di-isocyanate Polyisocyanate, aliphatic

2.3 Other hazards

2.3 OTHER NAZIONSThe 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 (FC) 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

Polyisocyanate, aliphatic	
Registration number (REACH)	01-2119485796-17-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	931-274-8
CAS	28182-81-2
content 9/	60.80

Classification according to Regulation (EC) 1272/2008	Acute Tox. 4. H332		
(CLP), M-factors	Skin Sens. 1, H317		
(),	STOT SE 3, H335		
Hexamethylene-di-isocyanate			
Registration number (REACH)	01-2119457571-37-XXXX		
Index	615-011-00-1		
EINECS, ELINCS, NLP, REACH-IT List-No.	212-485-8		
CAS	822-06-0		
content %	<0,1		
Classification according to Regulation (EC) 1272/2008	Acute Tox. 1, H330		
(CLP), M-factors	Acute Tox. 4, H302		
, ,	Skin Irrit. 2, H315		
	Eye Irrit. 2, H319		
	Resp. Sens. 1, H334		
	Skin Sens. 1, H317		
	STOT SE 3 H335		

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

STOT SE 3, H335 Skin Sens. 1, H317: >=0,5 %

Resp. Sens. 1, H334: >=0,5 %

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

Specific Concentration Limits and ATE

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

Eve contact

Rémove contact lenses.

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

Ingestion

Rinse the mouth thoroughly with water.

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

4.2 Most important symptoms and effects, both acute and delayed

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1. In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

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

4.3 Indication of any immediate medical attention and special treatment needed

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

CO2

Extinction powder Water jet spray

Unsuitable extinguishing media

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop Oxides of carbon

Oxides of nitrogen

Isocvanates

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 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. nal protective equipment as specified in section 8 to

Keep non-essential personnel away.

Respiration and some surface of the surface of the

6.1.2 For emergency respondersSee section 8 for suitable protective equipment and material specifications.

6.2 Environmental precautions

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

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

Prevent from entering drainage system.

If accidental entry into drainage system occurs, inform responsible authorities.



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6.3 Methods and material for containment and cleaning up

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

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

Keep moist.

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

6.4 Reference to other sections

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

SECTION 7: Handling and storage

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

7.1 Precautions for safe handling

7.1.1 General recommendations

Ensure good ventilation.

Avoid inhalation of the vapours.

If applicable, suction measures at the workstation or on the processing machine necessary.

Avoid contact with eves or skin.

Avoid contact with eyes or skin.

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

Polyisocyanate, aliphatic

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.

Store cool. Store in a dry place.

GB Chemical Name

7.3 Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

WEL-TWA: 0,02 mg/m3 (Isocyanate	s, WEL-STEL: 0,07 mg/	m3 (Isocyanates,		
all (as -NCO))	all (as -NCO))			
Monitoring procedures:				
BMGV: 1 µmol isocyanate-derived di	amine/mol creatinine in urine	Other information	n: Sen	
(At the end of the period of exposure)		(Isocyanates, all	(as -NCO))	
GB Chemical Name Hexa	methylene-di-isocyanate			ntent
			%:	<0,1
WEL-TWA: 0,02 mg/m3 (Isocyanate	s, WEL-STEL: 0,07 mg/	m3 (Isocyanates,		
all (as -NCO))	all (as -NCO))			
Monitoring procedures:	ISO 16702 (Workplace air	quality – determina	tion of total	
	isocyanate groups in air u	sing 2-(1-methoxyph	nenylpiperazine	and
-	liquid chromatography) - 2	2007		
	MDHS 25/4 (Organic isoc	vanates in air - Lab	oratory method	usina
	sampling either onto 2-(1-	, methoxyphenylpipe:	razine coated d	ass
	fibre filters followed by sol			
	analysis using high perfor			
_	EU project BC/CEN/ENTF			
	NIOSH 5521 (ISOCYANA			
_	NIOSH 5522 (ISOCYANA) 1554	
-	NIOSH 5525 (ISOCYANA) 2002	
BMGV: 1 umol isocvanate-derived di	amine/mol creatinine in urine	Other information		
	amine/moi creatinine in unne			
(At the end of the period of exposure)		(Isocyanates, all	(as -INCO))	

(GB)	Chemical Name	Calcium o	arbonate			Content
000						%:
I						70.
WE	L-TWA: 4 mg/m3 (respire	able dust),	WEL-STEL:			
10 r	ng/m3 (total inhalable dus	t)				
Mor	nitoring procedures:					
BM	GV:			Other information	1:	
(00)	Chemical Name	Silica am	orphoue			Content

®	Chemical Name	Silica, am	orphous			Content %:
WE	L-TWA: 6 mg/m3 (total in	nh. dust),	WEL-STEL:			
2,4	mg/m3 (resp. dust)					
Mor	nitoring procedures:					
BM	GV:			Other information	1:	

Area of application		Effect on	Dagari	Valu	Unit	Mata
Area of application	Exposure route / Environmental compartment	Effect on health	Descri ptor	Valu e	Unit	Note
	Environment - freshwater		PNEC	0,12 7	mg/l	
	Environment - marine		PNEC	0,01 27	mg/l	
	Environment - water, sporadic (intermittent) release		PNEC	1,27	mg/l	
	Environment - sediment, freshwater		PNEC	266 700	mg/kg dry weight	
	Environment - sediment, marine		PNEC	266 70	mg/kg dry weight	
	Environment - sewage treatment plant		PNEC	38,3	mg/l	
	Environment - soil		PNEC	531 82	mg/kg dry weight	

Workers /	Human - inhalation	Long term,	DNEL	0,5	mg/m3	
employees		local effects				
Workers /	Human - inhalation	Short term,	DNEL	1	mg/m3	
employees		local effects				

Hexamethylene-di-is	ocyanate					
Area of application	Exposure route / Environmental	Effect on health	Descri ptor	Valu e	Unit	Note
	compartment		BNEO	0.07		
	Environment -		PNEC	0,07	mg/l	
	freshwater			74		
	Environment -		PNEC	0,00	mg/l	
	marine			774		
	Environment -		PNEC	0,77	mg/l	
	water, sporadic			4		
	(intermittent) release					
	Environment -		PNEC	8,42	mg/l	
	sewage treatment					
	plant					
	Environment -		PNEC	0,01	mg/kg	
	sediment, freshwater			334	dw	
	Environment -		PNEC	0,00	mg/kg	
	sediment, marine			134	dw	
				4		
	Environment - soil		PNEC	0,00	mg/kg	
			· 1	26	dw	
Workers /	Human - inhalation	Long term,	DNEL	0.03	mg/m3	
employees		local effects		5	3 -	
Workers /	Human - inhalation	Long term,	DNEL	0,03	mg/m3	
employees		systemic effects		5	J	
Workers /	Human - inhalation	Short term.	DNEL	0,07	mg/m3	
employees		local effects		.,	J	
Workers /	Human - inhalation	Short term,	DNEL	0,07	mg/m3	
employees		systemic effects		5,07	9/1110	

Calcium carbonate						
Area of application	Exposure route / Environmental compartment	Effect on health	Descri ptor	Valu e	Unit	Note
	Environment - sewage treatment plant		PNEC	100	mg/l	
Consumer	Human - oral	Long term, systemic effects	DNEL	6,1	mg/kg bw/day	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	10	mg/m3	
Consumer	Human - inhalation	Long term, local effects	DNEL	1,06	mg/m3	
Consumer	Human - oral	Short term, systemic effects	DNEL	6,1	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	4,26	mg/m3	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	10	mg/m3	

Zeolites						
Area of application	Exposure route /	Effect on	Descri	Valu	Unit	Note
	Environmental	health	ptor	е		
	compartment					
	Environment -		PNEC	3,2	mg/l	
	freshwater					
	Environment -		PNEC	0,32	mg/l	
	marine					
	Environment -		PNEC	95	mg/l	
	sewage treatment					
	plant					
	Environment - soil		PNEC	600	mg/kg	
					dw	
Consumer	Human - oral	Long term,	DNEL	1,25	mg/kg	
		systemic effects			body	
					weight/	
					day	
Consumer	Human - dermal	Long term,	DNEL	1,25	mg/kg	
		systemic effects			body	
					weight/	
					day	
Workers /	Human - dermal	Long term,	DNEL	2,5	mg/kg	
employees		systemic effects			body	
					weight/	
					day	
Workers /	Human - inhalation	Long term,	DNEL	3	mg/m3	
employees		local effects				

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

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

reference period).
(8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, (a) = Initiatation (activation (2017) (a) = Respiration inaction (activation (2017) (a) = Respiration inaction (activation (2017) (a) = Respiration inaction (activation (2017) (a) = Respiration in activation (a) = Respiration in activation (a) = Respiration (a) = 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"

8.2.2 Individual protection measures, such as personal protective equipment



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General hygiene measures for the handling of chemicals are applicable.
Wash hands before breaks and at end of work.
Keep away from food, drink and animal feedingstuffs.
Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eve/face protection:

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

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

Recommended Protective gloves in butyl rubber (EN ISO 374).

Minimum layer thickness in mm

>= 0,5
Permeation time (penetration time) in minutes:

>= 480
The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical

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

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

Combustible.

Mixture reacts with water.

Does not apply to liquids

n.a.

Insoluble

There is no information available on this parameter.

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

There is no information available on this parameter.

There is no information available on this parameter

Does not apply to mixtures.

There is no information available on this parameter.

-1,36 g/cm3 (20°C)

There is no information available on this parameter.

9.1 Information on basic physical and chemical properties

Physical state:
Colour:
Odour:
Melting point/freezing point:
Boiling point or initial boiling point and boiling range:
Elamonability. According to specification Slightly
There is no information available on this parameter.
There is no information available on this parameter.

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

Product is not explosive

Explosives: Oxidising liquids: Evaporation rate

SECTION 10: Stability and reactivity

10.1 Reactivity

reacts with water 10.2 Chemical stability

Stable with proper storage and handling.

10.3 Possibility of hazardous reactions

Exothermic reaction possible with: Alcohols Amines

Bases

Acids Water

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

Pressure increase will result in danger of bursting

10.4 Conditions to avoid

See also section 7.

Protect from humidity

Polymerisation due to high heat is possible

10.5 Incompatible materials

See also section 7. Acids Bases Amines Alcohols

10.6 Hazardous decomposition products

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)

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Toxicity / effect | Endpo | Value | Unit | Cosmo | Co Test method int m Acute toxicity, by oral n.d.a route: Acute toxicity, by dermal route: Acute toxicity, by ATF 15,83 calculated ma/l value, Vapours n.d.a. inhalation: Skin corrosion/irritation: Serious eye n.d.a. damage/irritation:
Respiratory or skin
sensitisation:
Germ cell nda n.d.a. mutagenicity Carcinogenicity:
Reproductive toxicity:
Specific target organ
toxicity - single
exposure (STOT-SE):
Specific target organ n.d.a n.d.a. toxicity - repeated exposure (STOT-RE): Aspiration hazard: Symptoms:

Polyisocyanate, aliphat	ic					
Toxicity / effect	Endpo int	Value	Unit	Organis m	Test method	Notes
Acute toxicity, by oral route:	LD50	>2500	mg/k g	Rat	OECD 423 (Acute Oral Toxicity - Acute Toxic Class Method)	Female
Acute toxicity, by dermal route:	LD50	>2000	mg/k g	Rat	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	1,5	mg/l/ 4h	Rat	OECD 403 (Acute Inhalation Toxicity)	Mist
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosio n)	Slightly irritant
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosio n)	Slightly irritant
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Yes (skin contact)
Germ cell mutagenicity:					OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative
Reproductive toxicity: Specific target organ toxicity - single exposure (STOT-SE), inhalative:						Negative Irritation the respirato tract
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOEL	4,3	mg/m 3	Rat	OECD 412 (Subacute Inhalation Toxicity - 28-Day Study)	
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAE L	3,3	mg/m 3	Rat	OECD 413 (Subchronic Inhalation Toxicity - 90-Day Study)	Aerosol

Hexamethylene-di-isoo	yanate					
Toxicity / effect	Endpo int	Value	Unit	Organis m	Test method	Notes
Acute toxicity, by oral	LD50	746	mg/k	Rat	OECD 401	
route:			g		(Acute Oral	
			"		Toxicity)	
Acute toxicity, by	LD50	>7000	mg/k	Rabbit	OECD 402	
dermal route:			g		(Acute Dermal	
					Toxicity)	
Acute toxicity, by	LC50	0,124	mg/l/	Rat	OECD 403	Vapours
inhalation:			4h		(Acute Inhalation	
					Toxicity)	
Skin				Rabbit	OECD 404	Skin Irrit. 2
corrosion/irritation:					(Acute Dermal	
					Irritation/Corrosio	
					n)	
Serious eye				Rabbit	OECD 405	Eye Irrit. 2
damage/irritation:					(Acute Eye	
					Irritation/Corrosio	
					n)	
Respiratory or skin				Guinea	OECD 406 (Skin	Yes (skin
sensitisation:				pig	Sensitisation)	contact)
Respiratory or skin				Guinea		Yes
sensitisation:				pig		(inhalation)
Symptoms:						breathing
						difficulties,
						respiratory
						distress,
						annoyance
			1			coughing,
						headaches,
						mucous
			1			membrane
			1			irritation,
			1			nausea
						and
						vomiting.



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OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies) Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: NOAE C Vapours, Target organ(s): respiratory system 0,035 mg/m 3 Rat

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	
	1.550	2222		-	Dose Procedure)	
Acute toxicity, by	LD50	>2000	mg/k	Rat	OECD 402	
dermal route:			g		(Acute Dermal	
A auto taviaite bu	LC50	>3		Rat	Toxicity) OECD 403	
Acute toxicity, by inhalation:	LC50	>3	mg/l/ 4h	Rai	(Acute Inhalation	
innaiation:			411		Toxicity)	
Skin			-	Rabbit	OECD 404	Not irritan
corrosion/irritation:				Rabbit	(Acute Dermal	Not iiitan
corrosion/irritation.					Irritation/Corrosio	
					n)	
Serious eye			+	Rabbit	OECD 405	Not irritan
damage/irritation:				Rabbit	(Acute Eye	NOT IIIItaii
damage/imation.					Irritation/Corrosio	
					n)	
Respiratory or skin			+	Mouse	OECD 429 (Skin	No (skin
sensitisation:				wouse	Sensitisation -	contact)
sensitisation.					Local Lymph	contact)
					Node Assay)	
Germ cell			+		OECD 471	Negative
mutagenicity:					(Bacterial	ivegative
mutagerilotty.					Reverse	
			1		Mutation Test)	
Germ cell			_		OECD 473 (In	Negative
mutagenicity:					Vitro	ivegative
matagementy.					Mammalian	
					Chromosome	
					Aberration Test)	
Germ cell			_		OECD 476 (In	Negative
mutagenicity:					Vitro	ivegative
mutagenicity:					Mammalian Cell	
					Gene Mutation	
					Test)	
Carcinogenicity:					1031)	No
Caremogernerry.						indications
						of such ar
						effect.
Reproductive toxicity:	NOEL	1000	mg/k	Rat	OECD 422	
			g		(Combined	
			bw/d		Repeated Dose	
					Tox. Study with	
					the	
					Reproduction/De	
					velopm. Tox.	
					Screening Test)	
Specific target organ						No
toxicity - single			1			indications
exposure (STOT-SE):			1			of such ar
						effect.
Specific target organ						No
toxicity - repeated						indications
exposure (STOT-RE):						of such ar
						effect.
Aspiration hazard:						No
Specific target organ	NOAE	1000	mg/k	Rat	OECD 422	
toxicity - repeated	L		g		(Combined	
exposure (STOT-RE),			bw/d		Repeated Dose	
oral:					Tox. Study with	
			1		the	
					Reproduction/De	
					velopm. Tox.	
					Screening Test)	
		0,212	mg/l	Rat	OECD 413	
Specific target organ	NOAE	0,212				
toxicity - repeated	NOAE C	0,212	"		(Subchronic	
		0,212			(Subchronic Inhalation	
toxicity - repeated		0,212				

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

11.2. Information on other hazards

Toxicity / effect Endpo Value Unit Organis Test method Notes int m	COSMO PU-205.350				
	Toxicity / effect	 Value	Unit	 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

COSMO PU-205.35 Toxicity / effect		Time	Valu	I India	Ornenier:	Tool	Nata-
•	Endpoin t	Tim e	Valu e	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:							n.d.a.
12.1. Toxicity to daphnia:							n.d.a.
12.1. Toxicity to algae:							n.d.a.
12.2. Persistence and degradability:							With wa at the interface transform slowly w formation of CO2 into a fir insoluble reaction product with a himelting point (polycar mide). According to experier available to date, polycartide is in initial and non degrade
12.3. Bioaccumulative potential:							n.d.a.
12.4. Mobility in soil:							n.d.a.
12.5. Results of PBT and vPvB assessment							n.d.a.
12.6. Endocrine disrupting properties:							n.d.a.
properties: 12.7. Other							n.d.a.

				ı			
Polyisocyanate, a							
Toxicity / effect	Endpoin t	Tim e	Valu e	Unit	Organism	Test method	Notes
12.3. Bioaccumulative potential:	BCF		367, 7				
12.1. Toxicity to fish:	LC50	96h	>10 0	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	EC10	48h	>10 0	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisati on Test)	
12.1. Toxicity to algae:	ErC50	72h	>10 00	mg/l	Scenedesm us subspicatus	DIN 38412 T.9	
12.1. Toxicity to algae:	IC50	72h	>10 0	mg/l	Scenedesm us subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		28d	0	%		OECD 301 C (Ready Biodegradab ility - Modified MITI Test (I))	Not readily biodegrada ble
12.2. Persistence and degradability:		28d	1	%		OECD 301 D (Ready Biodegradab ility - Closed Bottle Test)	Not readily biodegrada ble
12.3. Bioaccumulative potential:	Log Kow		3,2				Concentrati on in organisms possible., calculated value
12.4. Mobility in soil:	H (Henry)		<0,0 000 01	Pa*m 3/mol			25°C
12.4. Mobility in soil:	Log Koc		7,3- 7,8				
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance



Page 5 of 7 Safety data sheet a Revision date / ver Replacing version of Valid from: 01.11.2 PDF print date: 01.	sion: 01.11.20 dated / versior 021	21 / 001 ⁻	1		S, Annex II			12.2. Persistence and degradability:							Not relevant for inorganic substance
COSMO PU-205.3	50							12.3. Bioaccumulative							Not to be expected
Toxicity to bacteria:	EC50	72h	382 8	mg/l	activated sludge	OECD 209 (Activated Sludge,		potential: 12.4. Mobility in soil:							n.a.
						Respiration Inhibition Test (Carbon		12.5. Results of PBT and vPvB assessment							No PBT substance No vPvB substance
-	5050					and Ammonium Oxidation)) OECD 209		Toxicity to bacteria:	EC50	3h	>10 00	mg/l	activated sludge	OECD 209 (Activated Sludge,	
Toxicity to bacteria:	EC50	3h	>10 00	mg/l	activated sludge	(Activated Sludge, Respiration Inhibition Test (Carbon								Respiration Inhibition Test (Carbon and Ammonium Oxidation))	
						and Ammonium Oxidation))		Toxicity to bacteria:	NOEC/N OEL	3h	100 0	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration	
Hexamethylene-d Toxicity / effect	i-isocyanate Endpoin t	Tim	Valu e	Unit	Organism	Test method	Notes							Inhibition Test (Carbon	
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB		5050					and Ammonium Oxidation))	
12.1. Toxicity to fish:	LC0	96h	>82, 8	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity Test)	substance	Other organisms:	EC50	21d	>10 00	mg/k g dw		OECD 208 (Terrestrial Plants, Growth Test)	Glycine max
12.1. Toxicity to daphnia:	LC0	48h	>89, 1	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisati		Other organisms:	EC50	21d	>10 00	mg/k g dw		OECD 208 (Terrestrial Plants, Growth Test)	Lycopersi on esculentu
12.1. Toxicity to algae:	NOEC/N OEL	72h	11,7	mg/l	Desmodesm us subspicatus	on Test) Regulation (EC) 440/2008 C.3		Other organisms:	EC50	21d	>10 00	mg/k g dw		OECD 208 (Terrestrial Plants, Growth	Avena sativa
						(FRESHWA TER ALGAE AND CYANOBAC		Other organisms:	NOEC/N OEL	21d	100 0	mg/k g dw		Test) OECD 208 (Terrestrial Plants, Growth	Glycine max
						TERIA, GROWTH INHIBITION TEST)		Other organisms:	NOEC/N OEL	21d	100 0	mg/k g dw		Test) OECD 208 (Terrestrial Plants,	Lycopers on esculentu
12.1. Toxicity to algae:	EC50	72h	>77, 4	mg/l	Scenedesm us subspicatus	OECD 201 (Alga, Growth Inhibition Test)		Other organisms:	NOEC/N OEL	21d	100 0	mg/k g dw		Growth Test) OECD 208 (Terrestrial Plants,	Avena sativa
12.2. Persistence and degradability:		28d	42	%		OECD 301 E (Ready Biodegradab	Not readily biodegrada ble	Other organisms:	EC50	14d	>10	mg/k	Eisenia	Growth Test) OECD 207	
						ility - Modified OECD Screening Test)		Other organisms:	NOEC/N	14d	100	g dw	foetida Eisenia	(Earthworm, Acute Toxicity Tests) OECD 207	
12.3. Bioaccumulative potential:	Log Kow BCF		3,2			Testy		Guioi oigamonio.	OEL		0	g dw	foetida	(Earthworm, Acute Toxicity	
12.3. Bioaccumulative potential: Toxicity to	EC50	3h	57,6 3	mg/l	activated	OECD 209		Other organisms:	EC50	28d	>10 00	mg/k g dw		Tests) OECD 216 (Soil Microorganis	
bacteria:	2000	G.:	0.2	gr.	sludge	(Activated Sludge, Respiration Inhibition								ms - Nitrogen Transformati on Test)	
						Test (Carbon and Ammonium Oxidation))		Other organisms:	NOEC/N OEL	28d	100	mg/k g dw		OECD 216 (Soil Microorganis ms - Nitrogen Transformati	
Calcium carbonat Toxicity / effect	e Endpoin t	Tim e	Valu e	Unit	Organism	Test method	Notes	Water solubility:			0,01 66	g/l		on Test) OECD 105 (Water	20°C
12.1. Toxicity to fish:	LC50	96h			Oncorhynch us mykiss	OECD 203 (Fish, Acute Toxicity	No observation with	Silica, amorphous	<u> </u>					Solubility)	
						Test)	saturated solution of test material.	Toxicity / effect 12.1. Toxicity to fish:	Endpoin t EC0	Tim e 96h	Valu e >10 000	Unit mg/l	Organism Brachydanio rerio	Test method OECD 203 (Fish, Acute	Notes
12.1. Toxicity to daphnia:	EC50	48h			Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisati	No observation with saturated	12.1. Toxicity to daphnia:	EC0	24h	>10 00	mg/l	Daphnia magna	Toxicity Test) OECD 202 (Daphnia	
12.1. Toxicity to algae:	EC50	72h	>14	mg/l	Desmodesm us	on Test) OECD 201 (Alga,	solution of test material.	12.1. Toxicity to algae:	ErC50	72h	>=1 000	mg/l	Scenedesm us	sp. Acute Immobilisati on Test) OECD 201 (Alga,	
algae: 12.1. Toxicity to	NOEC/N	72h	14	mg/l	subspicatus Desmodesm	(Alga, Growth Inhibition Test) OECD 201		aigas.			0		subspicatus	Growth Inhibition Test)	
algae:	OEL			· · · · · ·	us subspicatus	(Alga, Growth Inhibition Test)									



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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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

For the substance / mixture / residual amounts

EC disposal code no.

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

Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU)

08 04 09 waste adhesives and sealants containing organic solvents or other hazardous substances 08 05 01 waste isocyanates

Recommendation:

Sewage disposal shall be discouraged.
Pay attention to local and national official regulations.
E.g. suitable incineration plant.

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

For contaminated packing material

Pay attention to local and national official regulations.

Empty container completely.

Uncontaminated packaging can be recycled.

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

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

SECTION 14: Transport information

General statements 14.1. UN number or ID numbe

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:
14.4. Packing group:
Classification code:
LQ:
14.5. Environmental hazards:
Tunnel restriction code: n.a.

n.a. Not applicable

Transport by sea (IMDG-code)

14.2. UN proper shipping name:
14.3. Transport hazard class(es): n.a. 14.4. Packing group: Marine Pollutant: 14.5. Environmental hazard n a

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

14.6. Special precautions for user

cified otherwise, general measures for safe transport must be followed

14.7. Maritime transport in bulk according to IMO instruments

Non-dangerous material according to Transport Regulat

SECTION 15: Regulatory information

Not applicable

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

Observe restrictions:

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

Polyisocyanate, aliphatic

Hexamethylene-di-isocyanate

Comply with trade association/occupational health regulations.

Directive 2010/75/ELL(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
Acute Tox. 4, H332	Classification according to calculation procedure.
STOT SE 3, H335	Classification according to calculation procedure.

Skin Sens 1 H317 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). H302 Harmful if swallowed. H315 Causes skin irritation. H317 May cause an allergic skin reaction.

H319 Causes serious eve irritation.

H330 Fatal if inhaled.

H332 Harmful f inhaled. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation.

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

Key literature references and sources

for data:

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

(ECHA).
Safety data sheets for the constituent substances.
ECHA Homepage - Information about chemicals.
GESTIS Substance Database (Germany).
German Environment Agency "Rigoletto" information site on substances that are hazardous to water (Germany).
EU Occupation Exposure Limits Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU)

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

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

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

Any abbreviations and acronyms used in this document:

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

approx approximately Art., Art. no. Article number

ASTM ASTM International (American Society for Testing and Materials)

ATF Acute Toxicity Estim

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 and Safety, Germany)

BCF Bioconcentration factor

BSEF The International Bromine Council

bw CAS CLP

The international Brothine Council body weight Chemical Abstracts Service Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification,

CLP Classification, Labelling and Packaging of substances and mixtures labelling and packaging of substances and mixtures CMR carcinogenic, mutagenic, reproductive toxic DMEL Derived Minimum Effect Level DNEL Derived No Effect Level DOC Dissolved organic carbon

dw

dry weight

for example (abbreviation of Latin 'exempli gratia'), for instance

FM x (x = 10.50)

Effect Concentration/Level of x % on reduction of the biomass e.g. for example (abbre EbCx, EyCx, EbLx (x = 10, 50)

EbCx, EyCx, EbLx (x = 10, 50) Effect Concentration/Level of x % on reducing apparents

EC European Community

ECH, European Chemicals Agency

ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect

EC European Economic Community

EINECS

European Inventory of Existing Commercial Chemical Substances
European List of Notified Chemical Substances
European Norms
United States Environmental Protection Agency (United States of America) ErCx. EuCx. ErLx (x = 10, 50) Effect Concentration/Level of x % on inhibition of the growth rate

(algae, plants) etc. et et cetera

EU EVAL Fax. European Union Ethylene-vinyl alcohol copolymer Fax number

Fax. I Fax number gen. general general GHS Globally Harmonized System of Classification and Labelling of Chemicals GWP Global warming potential Koc Adsorption coefficient of organic carbon in the soil octanol-water partition coefficient International Agency for Research on Cancer International Air Transport Association International Bulk Chemical (Code)

IMDG-code International Maritime Code for Dangerous Goods

IMDG-code International Maritime Code for Dangerous Goods incl. including, inclusive International Uniform Chemical Information Database International Union for Pure Applied Chemistry
LC50 Lethal Concentration to 50 % of a test population (Median Lethal Dose) Logarithm of adsorption coefficient of organic carbon in the soi Log Kow, Log Pow Logarithm of concentration to 50 MARPOI Limited Quantities

MARPOL International Convention for the Prevention of Marine Pollution from Ships

n.a. not applicable n.av. n.c. n.d.a. NIOSH

not applicable
not checked
not data available
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

organic
Occupational Safety and Health Administration (USA)

persistent, bioaccumulative and toxic Polyethylene Predicted No Effect Concentration PBT

PNEC

parts per million Polyvinylchloride ppm PVC



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COSMO PU-205.350

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
VOC Volatile organic compounds
VPVB very persistent and very bioaccumulative
wut wet weight

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