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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0008

Revision date / version: 9.07.2021 / 0007 Replacing version dated / version: 29.07.2021 / 0007 Valid from: 01.11.2021 PDF print date: 01.11.2021 COSMO PU-205.334

(COSMOPUR DUO 1853 graphit Komp. B)

### 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-205.334

### (COSMOPUR DUO 1853 graphit Komp. B)

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

Relevant identified uses of the substance or mixture:

Adhesive Hardene

Uses advised against: No information available at present

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

Weiss Chemie + Technik GmbH & Co. KG

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

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

### 1.4 Emergency telephone number

Emergency information services / official advisory body:

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

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

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

### 2.1 Classification of the substance or mixture

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

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

### 2.2 Label elements

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



### Danger

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

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

protection. 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

### 2.3 Other hazards

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

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

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

### 3.1 Substances

### 3.2 Mixtures

J.Z WIKUIES	
Diphenylmethanediisocyanate, isomeres and	
homologues	
Registration number (REACH)	***
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	
CAS	9016-87-9
content %	25-50
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

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

Medical supervision necessary due to possibility of delayed reaction. 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. Call a doctor immediately, keep datasheet at hand

### Eve contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

### Ingestion

Rinse the mouth thoroughly with water.

Do not induce vomiting. 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:
In case of sensitivity, concentrations below the limit value may already result in asthmatic symptoms.
Coughing
Respiratory distress

# 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

Water iet spray / alcohol resistant foam

### Unsuitable extinguishing media

## 5.2 Special hazards arising from the substance or mixture

In case of fire the following can dev Oxides of carbon

Oxides of carbon Oxides of nitrogen Hydrocyanic acid (hydrogen cyanide) Toxic gases

### 5.3 Advice for firefighters

For personal protective equipment see Section 8. In case of fire and/or explosion do not breathe fumes.

Protective respirator with independent air supply.

According to size of fire Full protection, if necessary.

Dispose of contaminated extinction water according to official regulations.

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

### 6.1 Personal precautions, protective equipment and emergency procedures 6.1.1 For non-emergency personnel

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

Ensure sufficient ventilation, remove sources of ignition.

Avoid dust formation with solid or powder products.

Leave the danger zone if possible, use existing emergency plans if necessary.

Ensure sufficient supply of air.

Avoid inhalation, and contact with eyes or skin.

If applicable, caution - risk of slipping

### 6.1.2 For emergency responders



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See section 8 for suitable protective equipment and material specifications. **6.2 Environmental precautions** 

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

Prevent from entering drainage system.

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

# **6.3 Methods and material for containment and cleaning up** Pick up mechanically and dispose of according to Section 13.

Soak up with absorbent material (e.g. universal binding agent) and dispose of according to Section 13.

Do not close packing drum.

Keep moist. Allow to star and for a few days in an unclosed container until reaction no longer occurs.

#### 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.

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

if applicable, suction measures at the workstation or on the processing machine necessary. Avoid inhalation, and contact with eyes or skin. Eating, drinking, smoking, as well as food-storage, is prohibited in work-room. No contact with products of this type in case of allergies, asthma und chronic respiratory tract disorders. 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 applicab Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs

ove 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.

Store at room temperature.

GB Chemical Name

### 7.3 Specific end use(s)

### SECTION 8: Exposure controls/personal protection

Diphenylmethanediisocyanate, isomeres and homologues

### 8.1 Control parameters

WEL-TWA: 6 mg/m3 (total inh. dust),

2,4 mg/m3 (resp. dust) Monitoring procedures BMGV: ---

ш	VVEL-1VVA: 0,02 mg/m3 (ISC	cyanates,	WEL-STEL: 0,07 mg/r	ns (isocyanates,			
	all (as -NCO))		all (as -NCO))				
	Monitoring procedures:						
	BMGV: 1 µmol isocyanate-d	ne/mol creatinine in urine	Other information: Sen				
	(At the end of the period of ex	posure)		(Isocyanates, all	(as -NCO)		
	GB Chemical Name Calcium carbonate						
						%:	
	WEL-TWA: 4 mg/m3 (respir	able dust),	WEL-STEL:				
	10 mg/m3 (total inhalable dus	t)					
	Monitoring procedures:						
	BMGV:			Other information	n:		
	GB Chemical Name	Silica, am	orphous			Content	

WEL-STEL: --

Other information

Calcium carbonate						
Area of application	Exposure route / Environmental compartment	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 / Environmental compartment	Effect on health	Descri ptor	Valu e	Unit	Note
	Environment - freshwater		PNEC	3,2	mg/l	
	Environment - marine		PNEC	0,32	mg/l	
	Environment - sewage treatment plant		PNEC	95	mg/l	

	Environment - soil		PNEC	600	mg/kg dw	
Consumer	Human - oral	Long term, systemic effects	DNEL	1,25	mg/kg body weight/ day	
Consumer	Human - dermal	Long term, systemic effects	DNEL	1,25	mg/kg body weight/ day	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	2,5	mg/kg body weight/ day	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	3	mg/m3	

B WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted well-rwa = wolkpiace Exposule Limit - Long-term Reposule mint (orlicul rwa (e linie weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).

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

(8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU), | BMCV = Biological monitoring guidance value EH40. BGW = "Biologiscal reference" (biologische Imit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.

\*\*\* = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with

the goal of revision.

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

(14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).

### 8.2 Exposure controls

### 8.2.1 Appropriate engineering controls

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

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

Content

%:25-50

>= 0,35
Permeation time (penetration time) in minutes:

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: If OES or MEL is exceeded. Filter A2 P2 (EN 14387), code colour brown, white

Observe wearing time limitations for respiratory protection equipment.

Thermal hazards

Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the 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

### 8.2.3 Environmental exposure controls

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

### 9.1 Information on basic physical and chemical properties

Paste, liquid. (DIN ISO 2137) Physical state: Colour:

Colour.
Odour:
Melting point/freezing point:
Boiling point or initial boiling point and boiling range:
Flammability:

Lower explosion limit: Upper explosion limit: Flash point: Auto-ignition temperature: Decomposition temperature:

Kinematic viscosity: Solubility:

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

Vapour pressure: Density and/or relative density:

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

Insoluble

Does not apply to mixtures.
There is no information available on this parameter.
1,55 g/cm3 (relative density)



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Relative vapour density: Particle characteristics:

There is no information available on this parameter. Does not apply to liquids.

9.2 Other information
Explosives:
Oxidising liquids: Product is not explosive.

### **SECTION 10: Stability and reactivity**

10.1 Reactivity

Treacts 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

Bases
Acids
Water
Developement of:
Carbon dioxide
CO2 formation in closed tanks causes pressure to rise.
Pressure increase will result in danger of bursting.

10.4 Conditions to avoid

See also section 7.
Protect from humidity.
Polymerisation due to high heat is possible.
T > ~ 260°C

### 10.5 Incompatible materials

See also section 7. Bases

Acids Amines Alcohol Water

10.6 Hazardous decomposition products

See also section 5.2
No decomposition when used as directed.

SECTION	l 11· Toxicologica	ıl information

# 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 Possibly more information on health effects, see Section 2.1 (classification). COSMO PU-205.334

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, calculate value
Skin corrosion/irritation:						n.d.a.
Serious eye damage/irritation:						n.d.a.
Respiratory or skin sensitisation:						n.d.a.
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Specific target organ toxicity - single exposure (STOT-SE):						n.d.a.
Specific target organ toxicity - repeated exposure (STOT-RE):						n.d.a.
Aspiration hazard:						n.d.a.
Symptoms:						n.d.a.

Diphenylmethanediiso	Diphenylmethanediisocyanate, isomeres and homologues											
Toxicity / effect	Endpo int	Value	Unit	Organis m	Test method	Notes						
Acute toxicity, by oral route:	LD50	>5000	mg/k g	Rat	OECD 401 (Acute Oral Toxicity)							
Acute toxicity, by dermal route:	LD50	>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 classificatio n.						
Acute toxicity, by inhalation:	ATE	1,5	mg/l/ 4h			Expert judgement.						
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosio n)	Skin Irrit. 2						
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosio n)	Not irritant, Analogous conclusion, Does not conform with EU classificatio n.						

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

exposure (STOT-RE), inhalat.:						respirator system,
innaiat						Positive
Calcium carbonate						
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	LD50	>2000	mg/k	Rat	OECD 402	
dermal route:			g		(Acute Dermal	
			1		Toxicity)	
Acute toxicity, by	LC50	>3	mg/l/	Rat	OECD 403	
inhalation:			4h		(Acute Inhalation	
01:				5 110	Toxicity)	
Skin				Rabbit	OECD 404	Not irritan
corrosion/irritation:					(Acute Dermal Irritation/Corrosio	
					n)	
Serious eye			+	Rabbit	OECD 405	Not irritar
damage/irritation:				ואמטטונ	(Acute Eye	NOT IIIIlai
damage/imation.					Irritation/Corrosio	
					n)	
Respiratory or skin			_	Mouse	OECD 429 (Skin	No (skin
sensitisation:				cucc	Sensitisation -	contact)
					Local Lymph	
					Node Assay)	
Germ cell					OECD 471	Negative
mutagenicity:					(Bacterial	Ü
					Reverse	
					Mutation Test)	
Germ cell					OECD 473 (In	Negative
mutagenicity:					Vitro	
					Mammalian	
					Chromosome	
Germ cell			-		Aberration Test)	Magativa
					OECD 476 (In Vitro	Negative
mutagenicity:					Mammalian Cell	
					Gene Mutation	
					Test)	
Carcinogenicity:					. 201/	No
						indication
						of such a
						effect.
Reproductive toxicity:	NOEL	1000	mg/k	Rat	OECD 422	
			g		(Combined	
			bw/d		Repeated Dose	
					Tox. Study with	
					the	
			1		Reproduction/De	
					velopm. Tox. Screening Test)	
Specific target organ			+		Screening rest)	No
toxicity - single						indication
exposure (STOT-SE):						of such a
onpossio (OTOT SE).						effect.
Specific target organ						No.
toxicity - repeated						indication
exposure (STOT-RE):						of such a
	1		1	1		effect.



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Replacing version dated Valid from: 01.11.2021 PDF print date: 01.11.20 COSMO PU-205.334	d / version: 2		007				12.7. Other adverse effects:							No information available on other
(COSMOPUR DUO 185	53 graphit Ko	mp. B)												adverse effects on the
Specific target organ toxicity - repeated	NOAE L	1000	mg/k g	Rat	OECD 422 (Combined									environmen t.
exposure (STOT-RE), oral:  Specific target organ	NOAE	0,212	bw/d mg/l	Rat	Repeated Dose Tox. Study with the Reproduction/De velopm. Tox. Screening Test) OECD 413		Other information:							DOC- elimination degree(co mplexing organic substance)
toxicity - repeated exposure (STOT-RE), inhalat.:	C	0,212	mg/i	Rut	(Subchronic Inhalation Toxicity - 90-Day									80%/28d: No
					Study)		Diphenylmethane Toxicity / effect	diisocyanate Endpoin	isomere Tim	s and ho Valu	mologue: Unit	s Organism	Test	Notes
Silica, amorphous Toxicity / effect	Endpo	Value	Unit	Organis	Test method	Notes	Other organisms:	NOEC/N	<b>e</b> 14d	<b>e</b> >10	mg/k	Avena sativa	method OECD 208	
Acute toxicity, by oral route:	LD50	>5000	mg/k g	Rat	OECD 423 (Acute Oral Toxicity - Acute Toxic Class		12.1. Toxicity to	OEL LC50	96h	>10	g mg/l	Brachydanio	(Terrestrial Plants, Growth Test) OECD 203	
Acute toxicity, by dermal route:	LD50	> 2000	mg/k g	Rat	Method) OECD 402 (Acute Dermal		fish:			00	9.	rerio	(Fish, Acute Toxicity Test)	
Skin corrosion/irritation:				Rabbit	Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio	Not irritant	12.1. Toxicity to daphnia:	NOEC/N OEL	21d	>10	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisati	
Serious eye damage/irritation:				Rabbit	n) OECD 405 (Acute Eye Irritation/Corrosio	Not irritant	12.1. Toxicity to daphnia:	EC50	24h	>10 00	mg/l	Daphnia magna	on Test) OECD 202 (Daphnia sp. Acute	
Germ cell mutagenicity:					n) OECD 471 (Bacterial	Negative	12.1. Toxicity to	ErC50	72h	>16	mg/l	Scenedesm	Immobilisati on Test) OECD 201	
Aspiration hazard:					Reverse Mutation Test)	No	algae:			40		us subspicatus	(Alga, Growth Inhibition	
11.2. Information COSMO PU-205.334	on other	hazards					12.2. Persistence and degradability:		28d	0	%	activated sludge	Test) OECD 302 C (Inherent	Not biodegrada
(COSMOPUR DUO 185 Toxicity / effect	Endpo	omp. B) Value	Unit	Organis	Test method	Notes	degradability.						Biodegradab ility - Modified MITI Test	ble, According to experience
Endocrine disrupting	int			m		Does not							(II))	available to date,
properties:  Other information:						apply to mixtures. No other relevant information available on adverse effects on								polycarbam ide is inert and non- degradable ., With water at the
	SECTION	ON 12: E	cologi	cal infor	mation	health.								interface, transforms slowly with formation of CO2
Possibly more informati COSMO PU-205.334	on on enviro	nmental effec	ts, see Sec	tion 2.1 (class	sification).									into a firm, insoluble reaction
(COSMOPUR DUO 185														product with a high melting
Toxicity / effect E t 12.1. Toxicity to		Tim Valu e e	Unit	Organism	n Test method	Notes n.d.a.								point (polycarba
fish: 12.1. Toxicity to						n.d.a.	12.3. Bioaccumulative	BCF	42d	<14		Cyprinus carpio	OECD 305 (Bioconcentr	mide).  Not to be expected
daphnia: 12.1. Toxicity to algae: 12.2.						n.d.a. With water	potential:					ou.p.o	ation - Flow- Through Fish Test)	СХРОСІСС
Persistence and degradability:						at the interface, transforms	12.5. Results of PBT and vPvB assessment							No vPvB substance, No PBT
						slowly with formation of CO2 into a firm,	Toxicity to bacteria:	EC50	3h	>10 0	mg/l	activated sludge	OECD 209 (Activated Sludge,	substance
						insoluble reaction product with a high melting							Respiration Inhibition Test (Carbon and Ammonium	
						point (polycarba mide). According to experience	Other organisms:	NOEC/N OEL	14d	>10 00	mg/k g	Lactuca sativa	Oxidation)) OECD 208 (Terrestrial Plants, Growth	
						available to date, polycarbam ide is inert and non- degradable	Toxicity to annelids:	NOEC/N OEL	14d	>10 00	mg/k g	Lumbricus terrestris	Test) OECD 207 (Earthworm, Acute Toxicity Tests)	
12.3.						n.d.a.	Calcium carbonat	e Endpoin	Tim	Valu	Unit	Organism	Test	Notes
Bioaccumulative potential: 12.4. Mobility in						n.d.a.	12.1. Toxicity to	t LC50	<b>e</b> 96h	e	Jint	Oncorhynch	method OECD 203	No
soil: 12.5. Results of PBT and vPvB						n.d.a.	fish:		30.1			us mykiss	(Fish, Acute Toxicity Test)	observation with saturated solution of
assessment				1										test material.



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Valid from: 01.11.2021
PDF print date: 01.11.2021
COSMO PU-205.334

12.1. Toxicity to algae:	12.1. Toxicity to daphnia:	EC50	48h			Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisati on Test)	No observation with saturated solution of test material.
12.1 Toxicity to placeria:   Carbon and and analyses   Carbon analyses		EC50	72h	>14	mg/l	us	(Alga, Growth Inhibition	
12.2   Persistence and degradability:	algae:		72h	14	mg/l	us	OECD 201 (Alga, Growth Inhibition	
Bioaccumulative potential:	Persistence and						·	relevant
12.4 Mobility in   12.5 Results of PET and vPVB assessment	Bioaccumulative							Not to be expected
12.5. Results of PET and vPVB assessment	12.4. Mobility in							n.a.
Toxicity to bacteria:	12.5. Results of PBT and vPvB							substance No vPvB
Toxicity to bacteria:		EC50	3h		mg/l		(Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium	substand
Other organisms:         EC50         21d         >10         mg/k 00         GECD 208 (Gwind Plants, Growth Test)         Glycine (max Plants, Growth Test)         CFCP 208 (Terrestrial Plants, Growth Test)         CFCP 208 (Terrestrial Plants, Growth Test)         Lycoper (Terrestrial Plants, Growth Test)         CFCP 208 (Terrestrial Plants, Growth Test)         CFCP 208 (Terrestrial Plants, Growth Test)         Avena (Terrestrial Plants, Growth Test)         Avena (Terrestrial Plants, Growth Test)         CFCP 208 (Terrestrial Plants, Growth Test)         CF			3h		mg/l		OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium	
Other organisms:         EC50         21d         >10         mg/k 00         GECD 208 (Terrestrial Plants, Growth Test)         Lycoper of Plants, Growth Test)           Other organisms:         EC50         21d         >10         mg/k 00         OECD 208 (Terrestrial Plants, Growth Test)           Other organisms:         NOEC/N OEL         21d         100 mg/k 0 g dw         OECD 208 (Terrestrial Plants, Growth Test)           Other organisms:         NOEC/N OEL         21d         100 mg/k 0 g dw         OECD 208 (Terrestrial Plants, Growth Test)           Other organisms:         NOEC/N OEL         21d         100 mg/k 0 g dw         OECD 208 (Terrestrial Plants, Growth Test)           Other organisms:         NOEC/N OEL         21d         100 mg/k 0 g dw         OECD 208 (Terrestrial Plants, Growth Test)           Other organisms:         NOEC/N OEL         21d         100 mg/k 0 g dw         OECD 208 (Terrestrial Plants, Growth Test)           Other organisms:         EC50         14d         >10 mg/k 0 g dw         OECD 208 (Terrestrial Plants, Growth Test)           Other organisms:         NOEC/N OEL         14d         >10 mg/k 0 g dw         OECD 207 (Earthworm, Acute Toxicity Tests)           Other organisms:         NOEC/N OEL         28d         >10 mg/k 0 g dw         OECD 216 (Soil Microorganis ms - Nitrogen Transformati on Test)	Other organisms:	EC50	21d				OECD 208 (Terrestrial Plants, Growth	
Other organisms:         EC50         21d         >10         mg/k 00         OECD 208 (Terrestrial Plants, Growth Test)         Avena sativa           Other organisms:         NOEC/N OEL         21d         100 mg/k 0 g dw         OECD 208 (Terrestrial Plants, Growth Test)         Glycine (Terrestrial Plants, Growth Test)         Coech 208 (Terrestrial Plants, Growth Test)         Lycoper (Terrestrial Plants, Growth Test)         Lycoper (Terrestrial Plants, Growth Test)         DECD 208 (Terrestrial Plants, Growth Test)         Lycoper (Terrestrial Plants, Growth Test)         DECD 208 (Terrestrial Plants, Growth Test)         Avena (Terrestrial Plants, Growth Test)         Plants, Growth Test)         DECD 208 (Terrestrial Plants, Growth Test)         Avena (Terrestria	Other organisms:	EC50	21d				OECD 208 (Terrestrial Plants, Growth	Lycopersi on esculentu
Other organisms:         NOEC/N OEL         21d         100 of Mother organisms         max of Mother organisms         OECD 208 (Terrestrial Plants, Growth Test)         Glycine max Plants, Growth Test)           Other organisms:         NOEC/N OEL         21d         100 of Mother organisms         MOEC/N OEL         21d         100 of Mother organisms         Moech 208 (Terrestrial Plants, Growth Test)         Lycoper of Mother organisms           Other organisms:         NOEC/N OEL         21d         100 of Mother organisms         Moech 208 (Terrestrial Plants, Growth Test)         Avena (Terrestrial Plants, Growth Test)           Other organisms:         EC50         14d         >10 of Mother organisms         Eisenia foetida         OECD 207 (Earthworm, Acute Toxicity Tests)           Other organisms:         NOEC/N OEL         14d         100 of Mother organisms         OECD 207 (Earthworm, Acute Toxicity Tests)           Other organisms:         EC50         28d         >10 of Mother organisms         OECD 216 (Soil Microorganisms on Test)           Other organisms:         NOEC/N OEL         28d         100 of Mother organisms         OECD 216 (Soil Microorganisms on Test)           Other organisms:         NOEC/N OEL         28d         100 of Mother organisms of Test)         OECD 216 (Soil Microorganisms of Test)	Other organisms:	EC50	21d				OECD 208 (Terrestrial Plants, Growth	
Other organisms:         NOEC/N OEL         21d         100 g dw         mg/k of the plants of th	Other organisms:		21d				OECD 208 (Terrestrial Plants, Growth	
Other organisms:         NOEC/N OEL         21d 0 0 g dw         mg/k of the plants, or with	Other organisms:		21d				OECD 208 (Terrestrial Plants, Growth	Lycopersi on esculentu
Other organisms:         EC50         14d         >10 organisms         mg/k foetida         Eisenia foetida         OECD 207 (Earthworm, Acute Toxicity Tests)           Other organisms:         NOEC/N OEL         14d         100 organisms         mg/k foetida         OECD 207 (Earthworm, Acute Toxicity Tests)           Other organisms:         EC50         28d         >10 organisms         mg/k organisms         OECD 216 (Soil Microorganisms - Nitrogen Transformati on Test)           Other organisms:         NOEC/N OEL         28d         100 organisms         mg/k organisms organisms on Test)           Other organisms:         NOEC/N OEL         28d organisms o	Other organisms:		21d				OECD 208 (Terrestrial Plants, Growth	
Other organisms:         NOEC/N OEL         14d         100 g dw         mg/k foetida         Eisenia foetida         OECD 207 (Earthworm, Acute Toxicity Tests)           Other organisms:         EC50         28d         >10 g dw         mg/k OECD 216 (Soil Microorganis ms - Nitrogen Transformati on Test)           Other organisms:         NOEC/N OEL         28d         100 g dw         mg/k OECD 216 (Soil Microorganis ms - Nitrogen Transformati on Test)	Other organisms:	EC50	14d				OECD 207 (Earthworm, Acute Toxicity	
Other organisms:         EC50         28d         >10 on mg/k of g dw         OECD 216 (Soil Microorganis ms - Nitrogen Transformati on Test)           Other organisms:         NOEC/N OEL         28d of g dw         100 of g dw         OECD 216 (Soil Microorganis ms - Nitrogen Transformati on Test)           Other organisms:         NOEC/N OEL         28d of g dw         0 of g dw         OECD 216 (Soil Microorganis ms - Nitrogen Transformati Transformati	Other organisms:		14d				OECD 207 (Earthworm, Acute Toxicity	
Other organisms: NOEC/N 28d 100 mg/k OECD 216 (Soil Microorganis ms - Nitrogen Transformati	Other organisms:	EC50	28d				OECD 216 (Soil Microorganis ms - Nitrogen Transformati	
	Other organisms:		28d				OECD 216 (Soil Microorganis ms - Nitrogen Transformati	
On Test)   On Test)   Water solubility: 0,01 g/l OECD 105 20°C   G66 (Water	Water solubility:				g/l		OECD 105	20°C

Silica, amorphous							
Toxicity / effect	Endpoin	Tim	Valu	Unit	Organism	Test	Notes
	t	е	е			method	
12.1. Toxicity to	EC0	96h	>10	mg/l	Brachydanio	OECD 203	
fish:			000		rerio	(Fish, Acute	
						Toxicity	
						Test)	
12.1. Toxicity to	EC0	24h	>10	mg/l	Daphnia	OECD 202	
daphnia:			00		magna	(Daphnia	
						sp. Acute	
						Immobilisati	
40.4 Tablelians	ErC50	72h			Scenedesm	on Test) OECD 201	
12.1. Toxicity to	ErC50	/2n	>=1 000	mg/l	us		
algae:			000		subspicatus	(Alga, Growth	
			0		Subspicatus	Inhibition	
						Test)	
12.2.						1630)	Inorganio
Persistence and							products
degradability:							cannot b
acgradability.							eliminate
							from wat
							through
							biologica
							purificati
							methods
12.5. Results of							No PBT
PBT and vPvB							substanc
assessment							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)

80 40 90 waste adhesives and sealants containing organic solvents or other hazardous substances 20 01 27 paint, inks, adhesives and resins containing hazardous substances

20 01 27 paint, miss, adhesives and resins containing Recommendation:
Sewage disposal shall be discouraged.
Pay attention to local and national official regulations.
E.g. dispose at suitable refuse site.
E.g. suitable incineration plant.

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 01 paper and cardboard packaging

15 01 02 plastic packaging

# **SECTION 14: Transport information**

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

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: n.a. Not applicable

14.5. Environmental hazards:

Transport by air (IATA)
14.2. UN proper shipping name:
14.3. Transport hazard class(es):
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

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

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

Revised sections:

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
Comply with national regulations/laws governing maternity protection (national implementation of the Directive 92/85/EEC)!
Comply with trade association/coverning the complex 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**

These details refer to the product as it is delivered.

Employee instruction/training in handling hazardous materials is required.



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COSMO PU-205.334

(COSMOPUR DUO 1853 graphit Komp. B)

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.

H315 Causes skill illiation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H332 Harmful if inhaled.

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

H335 May cause respiratory irritation

H351 Suspected of causing cancer.

Eye Irrit. — Eye irritation

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

Resp. Sens. — Respiratory sensitization Skin Sens. — Skin sensitization

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

### Key literature references and sources

Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) as amended.

Regulation (EC) No. 1237/2006 (CLT) as amended. (ECHA).

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).

(EGIN).
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 Clearmany).

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 releté

Accord européen relatif au transport international des marchandises Dangereuses par Route (=

ADK Accord europeen relatif au transport international des marchandises Dangereu
European Agreement concerning the International Carriage of Dangerous Goods by Road)
AOX Adsorbable organic halogen compounds
approx.
approx.
Art., Art. no. Article number
ASTM ASTM International (American Society for Testing and Materials)

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 and Safety, Germany)

Bioconcentration factor

BSEF The International Bromine Council

body weight
CAS Chemical Abstracts Service
CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)

CMR

carcinogenic, mutagenic, reproductive toxic Derived Minimum Effect Level DMEL Derived No Effect Level
Dissolved organic carbon
dry weight
for example (abbreviation of Latin 'exempli gratia'), for instance DNEL DOC

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

(algae, plants)

European Community

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

EIN European Norms

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

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

(algae, plants) et cetera etc. EU

EVAL

European Union Ethylene-vinyl alcohol copolymer Fax number

gen. GHS general Globally Harmonized System of Classification and Labelling of Chemicals

GWP

Global warming potential
Adsorption coefficient of organic carbon in the soil
octanol-water partition coefficient
International Agency for Research on Cancer
International Air Transport Association Koc Kow IARC IATA IBC (Code) International Bulk Chemical (Code)
IMDG-code International Maritime Code for Dangerous Goods

incl. IUCLID

including, inclusive
International Uniform Chemical Information Database
International Union for Pure Applied Chemistry
Lethal Concentration to 50 % of a test population IUPAC LC50 LD50 Lethal Dose to 50% of a test population (Median Lethal Dose)
Log Koc Logarithm of adsorption coefficient of organic carbon in the soil
Log Kow, Log Pow Logarithm of octanol-water partition coefficient
LQ Limited Quantities

MARPOL International Convention for the Prevention of Marine Pollution from Ships

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

not checked no data available National Institute for Occupational Safety and Health (USA) No-longer-Polymer

NLF

NOEC, NOEL OFCD Organisation for Economic Co-operation and Development organic
Occupational Safety and Health Administration (USA)
persistent, bioaccumulative and toxic org. OSHA

Polyethylene Predicted No Effect Concentration

PE PNEC

PRICE Predicted No Effect Concentration

ppm parts per million

PVC Polyvinylchloride

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

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

RID 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 Telephone

Tel. TOC

Telephone
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

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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