

(B) Page 1 of 8 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0010 Replacing version dated / version: 29.07.2021 / 0009 Valid from: 01.11.2021 PDF print date: 01.11.2021 COSMO® PU-205.140	The mixture does not contain any vPvB substance (vPvB = v included under XIII of the regulation (EC) 1907/2006 (< 0,1 % The mixture does not contain any PBT substance (PBT = pe under XIII of the regulation (EC) 1907/2006 (< 0,1 %). The mixture does not contain any substance with endocrine	 sistent, bioaccumulative, toxic) or is not included disrupting properties (< 0,1 %). 			
COSMOFEN VKD 874 - Härter)	SECTION 3: Composition/info	ormation on ingredients			
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II	3.1 Substances				
SECTION 1: Identification of the substance/mixture and of the	n.a. 3.2 Mixtures				
company/undertaking	Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate				
	Registration number (REACH) Index	01-2119457015-45-XXXX			
1.1 Product identifier	EINECS, ELINCS, NLP, REACH-IT List-No. CAS	905-806-4			
COSMO® PU-205.140	content % Classification according to Regulation (EC) 1272/2008	5-<25 Acute Tox. 4, H332			
(COSMOFEN VKD 874 - Härter)	(CLP), M-factors	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Resp. Sens. 1, H334			
1.2 Relevant identified uses of the substance or mixture and uses advised against Relevant identified uses of the substance or mixture:	Descrifte Descenteriles Units and ATT	Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373 (respiratory system) (as inhalation)			
Adhesive Uses advised against: No information available at present.	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, Dusts or mist): 1,5 mg/l/4h			
1.3 Details of the supplier of the safety data sheet Weiss Chemie + Technik GmbH & Co. KG		ATE (as inhalation, Vapours): 11 mg/l/4h			
Hansastrasse 2 35708 Haiger	Methylenediphenyl diisocyanate, modified	04.0440457040.40.101010			
Tel: +49 (0) 2773 / 815-0 msds@weiss-chemie.de	Registration number (REACH) Index	01-2119457013-49-XXXX			
www.weiss-chemie.de	EINECS, ELINCS, NLP, REACH-IT List-No. CAS	500-040-3 25686-28-6			
Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.	content % Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	5-c25 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317			
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	Specific Concentration Limits and ATE	Skin Teit. 2, H351 STOT SE 3, H334 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373 (respiratory system) (as inhalation) Skin Irit. 2, H315: >=5 % Resp. Sens. 1, H334: >=0,1 % STOT SE 3, H335: >=5 % ATE (as inhalation, Dusts or mist): 1,5 mg/l/4h ATE (as inhalation, Vapours): 11 mg/l/4h			
2.1 Classification of the substance or mixture Classification according to Regulation (EC) 1272/2008 (CLP)	4,4'-methylenediphenyl diisocyanate	· · · · · · · · · · · · · · · · · · ·			
Hazard class Hazard category Hazard statement	Registration number (REACH) Index	01-2119457014-47-XXXX 615-005-00-9			
Eye Irrit.2H319-Causes serious eye irritation.STOT SE3H335-May cause respiratory irritation.	EINECS, ELINCS, NLP, REACH-IT List-No. CAS	202-966-0 101-68-8			
Skin Irrit. 2 H315-Causes skin irritation.	content %	5-10			
Resp. Sens.1H334-May cause allergy or asthma symptoms or breathing difficulties if inhaled.Skin Sens.1H317-May cause an allergic skin reaction.Carc.2H351-Suspected of causing cancer.STOT RE2H373-May cause damage to organs through	Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335			
prolonged or repeated exposure by inhalation (respiratory system). 2.2 Label elements Labeling according to Regulation (EC) 1272/2008 (CLP)	Specific Concentration Limits and ATE	STOT RE 2, H373 (respiratory system) (as inhalation) Skin Irrit. 2, H315: >=5 % Eye Irrit. 2, H319: >=5 % Resp. Sens. 1, H334: >=0,1 % STOT SE 3, H335: >=5 % ATE (as inhalation, Aerosol): 1,5 mg/l/4h ATE (as inhalation, Vapours): 11 mg/l/4h			
$\mathbf{A} \mathbf{A}$	Poly[oxy(methyl-1,2-ethanediyl)], .alphahydro- .omegahydroxy-				
< ! ><	Registration number (REACH) Index				
	EINECS, ELINCS, NLP, REACH-IT List-No. CAS	25322-69-4			
Danger	content % Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	1-10 Acute Tox. 4, H302			
Dungoi					
H319-Causes serious eye irritation. H335-May cause respiratory irritation. H315-Causes skin	Benzoyl chloride Registration number (REACH)	01-2119487138-29-XXXX			
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	Index EINECS, ELINCS, NLP, REACH-IT List-No.	607-012-00-0 202-710-8			
damage to organs through prolonged or repeated exposure by inhalation (respiratory system).	CAS content %	98-88-4 0,1-<1			
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+P334-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.	Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Acute Tox. 3, H331 Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317			
Continue rinsing. P308+P313-IF exposed or concerned: Get medical advice / attention. EUH204-Contains isocyanates. May produce an allergic reaction.	Specific Concentration Limits and ATE	ATE (oral): 1900 mg/kg ATE (dermal): 1100 mg/kg ATE (as inhalation, Dusts or mist): 0,5 mg/l/4h			
As from 24 August 2023 adequate training is required before industrial or professional use. Benzoyl chloride		ATE (as inhalation, Vapours): 1,45 mg/l/4h			
4,4'-methylenediphenyl diisocyanate Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate Methylenediphenyl diisocyanate, modified	For the text of the H-phrases and classification codes (GHS/ The substances named in this section are given with their ac For substances that are listed in appendix VI, table 3.1 of the this means that all notes that may be given here for the nam	tual, appropriate classification! e regulation (EC) no. 1272/2008 (CLP regulation)			



®	
GB Page 2 of 8 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0010	For personal protective equipment see Section 8 and for disposal instructions see Section 13. SECTION 7: Handling and storage
Replacing version dated / version: 29.07.2021 / 0009	SECTION 7. Handling and storage
Valid from: 01.11.2021 PDF print date: 01.11.2021	In addition to information given in this section, relevant information can also be found in section 8 and 6.1.
COSMO® PU-205.140	7.1 Precautions for safe handling 7.1.1 General recommendations
(COSMOFEN VKD 874 - Härter)	Ensure good ventilation.
The addition of the highest concentrations listed here can result in a classification. Only when this	Avoid inhalation of the vapours. If applicable, suction measures at the workstation or on the processing machine necessary.
classification is listed in Section 2 does it apply. In all other cases the total concentration is below the classification.	Avoid contact with eyes or skin. No contact with products of this type in case of allergies, asthma und chronic respiratory tract disorders.
SECTION 4: First aid measures	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.
4.1 Description of first aid measures	7.1.2 Notes on general hygiene measures at the workplace General hygiene measures for the handling of chemicals are applicable.
First-aiders should ensure they are protected! Never pour anything into the mouth of an unconscious person!	Wash hands before breaks and at end of work.
Inhalation	Keep away from food, drink and animal feedingstuffs. Remove contaminated clothing and protective equipment before entering areas in which food is consumed.
Remove person from danger area. Supply person with fresh air and consult doctor according to symptoms.	7.2 Conditions for safe storage, including any incompatibilities Keep out of access to unauthorised individuals.
If the person is unconscious, place in a stable side position and consult a doctor. Respiratory arrest - Artificial respiration apparatus necessary.	Not to be stored in gangways or stair wells.
Skin contact	Store product closed and only in original packing. Keep protected from direct sunlight and temperatures over 50°C.
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	Only store at temperatures from 15°C to 25°C. Store in a dry place.
irritation of the skin (flare), consult a doctor. Dab away with polyethylene glycol 400	7.3 Specific end use(s) Adhesive
Eye contact	Observe the instructions for good working practice and the recommendations for risk assessment.
Remove contact lenses. Wash thoroughly for several minutes using copious water - call doctor immediately, have Data Sheet available.	Consult hazardous substance information systems, e.g. from the professional associations, the chemical industry or different industries,
Ingestion Rinse the mouth thoroughly with water.	depending on the application (building materials, wood, chemistry, laboratory, leather, metal). Observe special requirements for isocyanates, also within the framework of the risk assessment and definition
Do not induce vomiting - give copious water to drink. Consult doctor immediately.	of protective measures.
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.	SECTION 8: Exposure controls/personal protection
The following may occur: Dermatitis (skin inflammation)	
Drying of the skin.	8.1 Control parameters
Allergic contact eczema Discoloration of the skin	Chemical Name Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-
Irritant to mucosa of the nose and throat Coughing	isocyanatobenzyl)phenyl isocyanate WEL-TWA: 0,02 mg/m3 (Isocyanates, WEL-STEL: 0,07 mg/m3 (Isocyanates,
Headaches Effect on the central nervous system	all (as -NCO)) all (as -NCO))
Asthmatic symptoms	Monitoring procedures: BMGV: 1 µmol isocyanate-derived diamine/mol creatinine in urine Other information: Sen
In case of sensitivity, concentrations below the limit value may already result in asthmatic symptoms. Respiratory distress	(At the end of the period of exposure) (Isocyanates, all)
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	GE Chemical Name Methylenediphenyl diisocyanate, modified WEL-TWA: 0,02 mg/m3 (Isocyanates, WEL-STEL: 0,07 mg/m3 (Isocyanates,
In case of irritation of the lungs, perform first-aid with controlled-dosage aerosol dexamethasone.	all (as -NCO)) all (as -NCO)) Monitoring procedures: ISO 16702 (Workplace air quality – determination of total
Pulmonary oedema prophylaxis Medical supervision necessary due to possibility of delayed reaction.	isocyanate groups in air using 2-(1-methoxyphenylpiperazine and - liquid chromatography) - 2007
SECTION 5: Firefighting measures	MDHS 25/4 (Organic isocyanates in air – Laboratory method using
	sampling either onto 2-(1-methoxyphenylpiperazine coated glass fibre filters followed by solvent desorption or into impingers and
5.1 Extinguishing media	- analysis using high performance liquid chromatography) - 2015 BMGV: 1 µmol isocyanate-derived diamine/mol creatinine in urine Other information:
Suitable extinguishing media	(At the end of the period of exposure)
Extinction powder Water jet spray	Chemical Name 4,4-methylenediphenyl diisocyanate WEL-TWA: 0,02 mg/m3 (lsocyanates, WEL-STEL: 0,07 mg/m3 (lsocyanates,
Foam	all (as -NCO)) all (as -NCO))
Unsuitable extinguishing media High volume water jet	isocyanate groups in air using 2-(1-methoxyphenylpiperazine and
5.2 Special hazards arising from the substance or mixture	 liquid chromatography) - 2007 MDHS 25/4 (Organic isocyanates in air – Laboratory method using
In case of fire the following can develop: Oxides of carbon	sampling either onto 2-(1-methoxyphenylpiperazine coated glass fibre filters followed by solvent desorption or into impingers and
Oxides of nitrogen Isocyanates	analysis using high performance liquid chromatography) - 2015 - - EU project BC/CEN/ENTR/000/2002-16 card 7-4 (2004)
Hydrocyanic acid (hydrogen cyanide) Toxic gases	 NIOSH 5521 (ISOCYANATES, MONOMERIC) - 1994 NIOSH 5522 (ISOCYANATES) - 1998
Danger of bursting (explosion) when heated	- NIOSH 5525 (ISOCYANATES, TOTAL (MAP)) - 2003
5.3 Advice for firefighters For personal protective equipment see Section 8.	 OSHA 18 (Diisocyanates 2,4-TDI and MDI) - 1980 OSHA 47 (Methylene Bisphenyl Isocyanate (MDI)) - 1984
In case of fire and/or explosion do not breathe fumes. Protective respirator with independent air supply.	BMGV: 1 µmol isocyanate-derived diamine/mol creatinine in urine Other information: Sen (At the end of the period of exposure) (Isocyanates, all)
According to size of fire Full protection, if necessary.	
Cool container at risk with water.	GE Chemical Name Silicon dioxide WEL-TWA: 6 mg/m3 (total inh. dust), WEL-STEL: 2.4 mg/m3 (tots), dust) WEL-STEL:
Dispose of contaminated extinction water according to official regulations.	Monitoring procedures:
SECTION 6: Accidental release measures	BMGV: Other information:
6.1 Personal precautions, protective equipment and emergency procedures	Chemical Name Calcium carbonate WEL-TWA: 4 mg/m3 (respirable dust), WEL-STEL:
6.1.1 For non-emergency personnel	10 mg/m3 (total inhalable dust) Monitoring procedures:
In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination.	BMGV: Other information:
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.	Reaction mass of 4,4*-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate Area of application Exposure route / Effect on Descri Valu Unit Note
Ensure sufficient supply of air. Avoid inhalation, and contact with eyes or skin.	Environmental health ptor e
If applicable, caution - risk of slipping. 6.1.2 For emergency responders	Environment - PNEC 37 µg/l
See section 8 for suitable protective equipment and material specifications.	freshwater PNEC 0,37 µg/l
	marine
6.2 Environmental precautions	Environment - soil PNEC 2,33 mg/kg
6.2 Environmental precautions If leakage occurs, dam up. Resolve leaks if this possible without risk.	Environment - PNEC 1 mg/l
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.	Environment - PNEC 1 mg/l sewage treatment plant
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.	Environment - PNEC 1 mg/l sewage treatment plant PNEC 3,7 µg/l
 6.2 Environmental precautions If leakage occurs, dam up. Resolve leaks if this possible without risk. Prevent surface and ground-water infiltration, as well as ground penetration. Prevent from entering drainage system. If accidental entry into drainage system occurs, inform responsible authorities. 6.3 Methods and material for containment and cleaning up Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth, sawdust) and 	Environment - PNEC 1 mg/l sewage treatment plant - PNEC 3,7 µg/l water, sporadic (intermittent) release
 6.2 Environmental precautions If leakage occurs, dam up. Resolve leaks if this possible without risk. Prevent surface and ground-water infiltration, as well as ground penetration. Prevent from entering drainage system. If accidental entry into drainage system occurs, inform responsible authorities. 6.3 Methods and material for containment and cleaning up Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth, sawdust) and dispose of according to Section 13. Allow to stand for a few days in an unclosed container until reaction no longer occurs. 	Environment - sewage treatment plant PNEC 1 mg/l Environment - PNEC 3,7 µg/l water, sporadic (intermittent) release Environment - PNEC 11,7 mg/kg sediment, freshwater drug
 6.2 Environmental precautions If leakage occurs, dam up. Resolve leaks if this possible without risk. Prevent surface and ground-water infiltration, as well as ground penetration. Prevent from entering drainage system. If accidental entry into drainage system occurs, inform responsible authorities. 6.3 Methods and material for containment and cleaning up Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth, sawdust) and dispose of according to Section 13. 	Environment - sewage treatment plant PNEC 1 mg/l Environment - water, sporadic (intermittent) release PNEC 3,7 µg/l Environment - Environment - PNEC 11,7 mg/kg
 6.2 Environmental precautions If leakage occurs, dam up. Resolve leaks if this possible without risk. Prevent surface and ground-water infiltration, as well as ground penetration. Prevent from entering drainage system. If accidental entry into drainage system occurs, inform responsible authorities. 6.3 Methods and material for containment and cleaning up Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth, sawdust) and dispose of according to Section 13. Allow to stand for a few days in an unclosed container until reaction no longer occurs. 	Environment - sewage treatment plant PNEC 1 mg/l Environment - water, sporadic (intermittent) release PNEC 3,7 µg/l Environment - sediment, freshwater PNEC 11,7 mg/kg dry weight



GB Page 3 of 8 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0010 Replacing version tatle / version: 29.07.2021 / 0009 Valid from: 01.11.2021 PDF print date: 01.11.2021 COSMO® PU-205.140

(COSMOFEN VKD 874 - Härter)

Consumer	Human - inhalation	Long term,	DNEL	0,02	mg/m3	
		local effects		5		
Consumer	Human - inhalation	Short term,	DNEL	0,05	mg/m3	
		local effects				
Workers /	Human - inhalation	Short term,	DNEL	0,1	mg/m3	
employees		local effects			-	
Workers /	Human - inhalation	Long term,	DNEL	0,05	mg/m3	
employees		local effects				

Methylenediphenyl d	iisocyanate, modified					
Area of application	Exposure route / Environmental compartment	Effect on health	Descri ptor	Valu e	Unit	Note
	Environment - freshwater		PNEC	1	mg/l	
	Environment - marine		PNEC	0,1	mg/l	
	Environment - sewage treatment plant		PNEC	1	mg/l	
	Environment - soil		PNEC	1	mg/kg	
	Environment - water, sporadic (intermittent) release		PNEC	10	mg/l	

Area of application	Exposure route /	Effect on	Descri	Valu	Unit	Note
	Environmental	health	ptor	е		
	compartment					
	Environment -		PNEC	3,7	µg/l	
	freshwater					
	Environment -		PNEC	0,37	µg/l	
	marine					
	Environment -		PNEC	1	mg/l	
	sewage treatment					
	plant					
	Environment - soil		PNEC	2,33	mg/kg	
			51/50	07	dw	
	Environment -		PNEC	37	µg/l	
	sporadic					
	(intermittent) release		51/50		4	
	Environment -		PNEC	11,7	mg/kg	
	sediment, freshwater				dry	
	Environment -		PNEC	1.17	weight	
			PNEC	1,17	mg/kg	
	sediment, marine				dry weight	
0	liber an and	Short term.	DNEL	20		
Consumer	Human - oral	systemic effects	DNEL	20	mg/kg bw/day	
Consumer	Human - dermal	Short term.	DNEL	17.2	mg/cm	
Consumer	Human - dermai	local effects	DNEL	17,2	ng/cm 2	
Consumer	Human - dermal	Short term.	DNEL	25	z mg/kg	
Consumer	numan - dermai	systemic effects	DINEL	25	bw/dav	
Consumer	Human - inhalation	Short term.	DNEL	0.05	ma/m3	
Consumer	indian initiation	local effects	DIVEL	0,00	ing/ino	
Consumer	Human - inhalation	Short term.	DNEL	0.05	mg/m3	
Condumon		systemic effects	0.122	0,00	ingritto	
Consumer	Human - inhalation	Long term,	DNEL	0.02	mg/m3	
		local effects		5	J	
Consumer	Human - inhalation	Long term,	DNEL	0,02	mg/m3	
		systemic effects		5	Ū	
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				

 United Kingdom | WEL-TWA = Workplace Exposure Limit - Long-term exposure limit - 8-hour TWA (= Ime weighted average) reference period (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).
 (EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU:

(8) = Inhalable fraction (2004/37/CE, 2017/164/EU). (9) = Respirable fraction (2004/37/CE, 2017/164/EU). (a) = Inhalable fraction (2004/37/CE, 2017/164/EU). (9) = Respirable fraction (2004/37/CE), 2017/164/EU).
 (11) = Inhalable fraction (2004/37/CE), (12) = Inhalable fraction, Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0.002 mg Cd/g creatinine in urine (2004/37/CE). |
 WEL-STEL = Workplace Exposure Limit - Short-term exposure limit - 15-minute reference period (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).
 (EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU

(a) = Shorter experimentary and the second of the second of

| BMGV = Biological monitoring guidance value (EH40/2005 Workplace exposure limits (Fourth Edition 2020)). (EU) = Directive 98/24/EC or 2004/37/EC or SCOEL (Biological Limit Value - BLV, Recommendation from the Scientific Committee on Occupational Exposure Limits (SCOEL)) | Other information (EH40/2005 Workplace exposure limits (Fourth Edition 2020)): Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage. (EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1631/EU:

(13) = The substance can cause sensitisation of the skin and of the respiratory tract (2004/37/CE), (14) = The substance can cause sensitisation of the skin (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 hydrodia protection measures, such as perso General hydrodiene measures for the handling of chemicals are applicable Wash hands before breaks and at end of work. Keep away from food, drink and animal feedingstuffs.

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

Eye/face protection:

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

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

Recommended

Protective nitrile gloves (EN ISO 374). Minimum layer thickness in mm: >= 0,35 Permeation time (penetration time) in minutes:

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

The breaking of a most second and a 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. Additional information of mania protection - Not 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 devived 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

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 No information available at pr

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and cl	pemical properties
Physical state:	Pastelike, Liquid
Colour:	Beige
Odour:	Characteristic
Melting point/freezing point:	There is no information available on this parameter.
Boiling point or initial boiling point and boiling range:	There is no information available on this parameter.
Flammability:	Combustible.
Lower explosion limit:	There is no information available on this parameter.
Upper explosion limit:	There is no information available on this parameter.
Flash point:	There is no information available on this parameter.
Auto-ignition temperature:	n.a.
Decomposition temperature:	There is no information available on this parameter.
pH:	Mixture reacts with water.
Kinematic viscosity:	20000-32000 mPas (Dynamic viscosity)
Solubility:	Insoluble
Partition coefficient n-octanol/water (log value):	Does not apply to mixtures.
Vapour pressure:	There is no information available on this parameter.
Density and/or relative density:	~1,63 g/cm3 (20°C)
Relative vapour density:	There is no information available on this parameter.
Particle characteristics:	Does not apply to liquids.
9.2 Other information	
Explosives:	Product is not explosive.
Oxidising liquids:	There is no information available on this parameter.
Evaporation rate:	n.a.
	114 1 41 14

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 Alcohols possible with Amines Bases Acids Water Valei 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. $T > \sim 260^{\circ}C$ 10.5 Incompatible materials See also section 7 Acids Bases Amines Alcohols Water

10.6 Hazardous decomposition products



B) Page 4 of 8 Safety data sheet accord Revision date / version : Replacing version dated Valid from: 01.11.2021 PDF print date: 01.11.20 COSMO® PU-205.140	01.11.2021 / version: 29	/ 0010		6, Annex II			Germ cell mutagenicity:				Salmonel la typhimuri um	Regulation (EC) 440/2008 B.13/B.14 (REVERSE MUTATION TEST USING BACTERIA)	Negative
(COSMOFEN VKD 874	- Härter)						Germ cell mutagenicity:				Rat	OECD 474 (Mammalian Erythrocyte Micronucleus	Negative
No decomposition when	used as dire	ected.					Constitue to react or react	NOEC	0.2		Det	Test) OECD 453	
S					ormation	1272/2008	Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOEC	0,2	mg/m 3	Rat	(Combined Chronic Toxicity/Carcinog enicity Studies)	
Possibly more informatio COSMO® PU-205.140	on on health						4,4'-methylenedipheny Toxicity / effect	Endpo	te Value	Unit	Organis	Test method	Notes
(COSMOFEN VKD 874 Toxicity / effect	- Härter) Endpo	Value	Unit	Organis	Test method	Notes	Acute toxicity, by oral	Int LD50	>2000	mg/k	m Rat	Regulation (EC)	Analogou
Acute toxicity, by oral route:	ATE	>2000	mg/k g	m		calculated value	route:	1.5.50		g	0 .11%	440/2008 B.1 (ACUTE ORAL TOXICITY)	conclusion
Acute toxicity, by dermal route: Acute toxicity, by	ATE	>20	mg/l/			n.d.a. calculated	Acute toxicity, by dermal route:	LD50 ATE	>9400	mg/k g	Rabbit	OECD 402 (Acute Dermal Toxicity)	Analogous
inhalation:			4h			value, Vapours	Acute toxicity, by inhalation:		11	mg/l/ 4h			Vapours
Skin corrosion/irritation:						n.d.a.	Acute toxicity, by inhalation:	ATE	1,5	mg/l/ 4h			Aerosol
Serious eye damage/irritation: Respiratory or skin sensitisation: Germ cell						n.d.a. n.d.a. n.d.a.	Acute toxicity, by inhalation:	LC50	0,368	mg/l/ 4h	Rat	OECD 403 (Acute Inhalation Toxicity)	Aerosol, Does not conform with EU classificat
mutagenicity:							Acute toxicity, by	LC50	1,5	mg/l/			n. Aerosol,
Carcinogenicity: Reproductive toxicity: Specific target organ toxicity - single						n.d.a. n.d.a. n.d.a.	inhalation:		.,5	4h	Rabbit	OECD 404	Expert judgemen Skin Irrit.
exposure (STOT-SE): Specific target organ toxicity - repeated						n.d.a.	corrosion/irritation:					(Acute Dermal Irritation/Corrosio n)	2, Analogou conclusio
exposure (STOT-RE): Aspiration hazard:						n.d.a.	Respiratory or skin sensitisation:				Guinea pig		Yes (inhalatio
Reaction mass of 4,4'-	nethylened	iphenyl diisc	ocyanate a	nd o-(p-isocy	anatobenzyl)phenyl i	n.d.a.	Respiratory or skin sensitisation:				Mouse	OECD 429 (Skin Sensitisation - Local Lymph	Skin Sens 1
Toxicity / effect	Endpo int	Value	Unit	Organis m	Test method	Notes	Germ cell				Salmonel	Node Assay) OECD 471	Negative,
Acute toxicity, by oral route: Acute toxicity, by	LD50	> 10000	mg/k g mg/k	Rat			mutagenicity:				la typhimuri um	(Bacterial Reverse Mutation Test)	Analogou conclusio
dermal route: Acute toxicity, by inhalation:	LC50	0,49	g mg/l/ 4h	Rat		Mist, Dust:, Does not	Germ cell mutagenicity:				Rat	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negativen ale
Acute toxicity, by	ATE	11	mg/l/			conform with EU classificatio n. Vapours	Germ cell mutagenicity:				Rat	OECD 489 (In Vivo Mammalian Alkaline Comet Assay)	Negativen ale
inhalation:			4h				Carcinogenicity:				Rat	OECD 453 (Combined	Aerosol, Analogou:
Acute toxicity, by inhalation: Skin	ATE	1,5	mg/l/ 4h	Rabbit	OECD 404 (Acute Dermal	Dusts or mist Irritant						Chronic Toxicity/Carcinog enicity Studies)	conclusion Carc. 2
corrosion/irritation: Respiratory or skin				Guinea	(Acute Dermai Irritation/Corrosio n) OECD 406 (Skin	Yes	Reproductive toxicity:	NOAE L	4-12	mg/m 3	Rat	OECD 414 (Prenatal Developmental	Aerosol, Analogou conclusio
sensitisation:				pig	Sensitisation)	(inhalation and skin contact)	Specific target organ toxicity - single exposure (STOT-SE),					Toxicity Study)	May caus respirator irritation.
Germ cell mutagenicity:				Salmonel la typhimuri um	Regulation (EC) 440/2008 B.13/B.14 (REVERSE	Negative	inhalative: Specific target organ toxicity - repeated	LOAE L	1	mg/m 3	Rat	OECD 453 (Combined	Aerosol, Analogou
Germ cell				Rat	MUTATION TEST USING BACTERIA) OECD 474	Negative	exposure (STOT-RE), inhalat.:					Chronic Toxicity/Carcinog enicity Studies)	conclusion Target organ(s): respirator
mutagenicity:					(Mammalian Erythrocyte Micronucleus Test)		Specific target organ toxicity - repeated exposure (STOT-RE),	NOAE L	0,2	mg/m 3	Rat	OECD 453 (Combined Chronic	system Aerosol, Analogou conclusion
Carcinogenicity:				Rat	OECD 453 (Combined Chronic Toxicity/Carcinog	Carc. 2	inhalat.:					Toxicity/Carcinog enicity Studies)	Target organ(s): respirator system
	L	l	I		enicity Studies)		Poly[oxy(methyl-1,2-eth						NL 1
Methylenediphenyl diis Toxicity / effect	Endpo	modified Value	Unit	Organis	Test method	Notes	Toxicity / effect	Endpo int	Value	Unit	Organis m	Test method	Notes
Acute toxicity, by oral	int LD50	>2000	mg/k	m Rat	OECD 401 (Acute Oral	Analogous conclusion	Acute toxicity, by oral route: Acute toxicity, by	LD50 LD50	>500 - <2000 >3000	mg/k g mg/k	Rat Rabbit	OECD 402	Analogou
route: Acute toxicity, by	ATE	11	g mg/l/		(Acute Oral Toxicity)	Vapours	dermal route:			g	Rabbit	(Acute Dermal Toxicity) OECD 404	conclusion Not irritan
inhalation: Acute toxicity, by inhalation:	ATE	1,5	4h mg/l/ 4h	Rabbit	OECD 404	Dusts or mist Skin Irrit. 2	corrosion/irritation:					(Acute Dermal Irritation/Corrosio n)	
Skin corrosion/irritation:					(Acute Dermal Irritation/Corrosio n)		Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosio n)	Slightly irritant
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosio n)	Eye Irrit. 2	Respiratory or skin sensitisation:				Mouse	OECD 429 (Skin Sensitisation - Local Lymph Node Assay)	No (skin contact)
Respiratory or skin sensitisation: Respiratory or skin				Mouse Guinea	OECD 406 (Skin	Yes (inhalation) Yes (skin	Germ cell mutagenicity:					OECD 471 (Bacterial Reverse	Negative
sensitisation:			1	pig	Sensitisation)	contact)						Mutation Test)	



B) Page 5 of 8 Safety data sheet accord							Germ cell						in vitro	Negativ
Safety data sheet accord Revision date / version:	ling to Regu	lation (EC) N / 0010	lo 1907/200	06, Annex II			mutagenicity: Carcinogenicity:							Negativ
Replacing version dated Valid from: 01.11.2021	/ version: 2		0009				care agomony.							adminis d as Ca
PDF print date: 01.11.20 COSMO® PU-205.140	21						Reproductive toxic	ty:	_					lactate Negativ
(COSMOFEN VKD 874	Härter)													adminis d as Ca
Germ cell	,				OECD 473 (In	Negative,	L							carbon
mutagenicity:					Vitro Mammalian Chromosome	Analogous conclusion	11.2. Informat COSMO® PU-205		er haza	ards				
Germ cell					Aberration Test) OECD 476 (In	Negative,	(COSMOFEN VKE Toxicity / effect	874 - Härter End		lue	Unit	Organis	Test method	Notes
mutagenicity:					Vitro Mammalian Cell Gene Mutation	Analogous conclusion	Endocrine disruptir properties:	int				m		Does r apply t
Reproductive toxicity (Developmental toxicity):	NOAE L	1000	mg/k g	Rat	Test) OECD 421 (Reproduction/D evelopmental Toxicity Screening Test)	Analogous conclusion	Other information:							mixtur No oth relevat inform availa
Reproductive toxicity (Effects on fertility):	NOAE L	1000	mg/k g	Rat	OECD 421 (Reproduction/D evelopmental Toxicity	Analogous conclusion								on adv effects health
Constituto to socio	NOAE	>=1000	m all i	Dat	Screening Test) OECD 407	Angleggue		SEC	TION	12: Eo	cologi	cal inform	nation	
Specific target organ toxicity - repeated	L	>=1000	mg/k g	Rat	(Repeated Dose	Analogous conclusion								
exposure (STOT-RE), oral:					28-Day Oral Toxicity Study in Rodents)		Possibly more info COSMO® PU-205	mation on en	vironment	al effects	, see Sect	ion 2.1 (classi	fication).	
Symptoms:					Rodentaj	annoyance, cramps,	(COSMOFEN VKE Toxicity / effect	874 - Härter Endpoin	Tim	Valu	Unit	Organism	Test	Notes
						trembling	12.1. Toxicity to	t	e	e	0	organishi	method	n.d.a.
Benzoyl chloride Toxicity / effect	Endpo	Value	Unit	Organis	Test method	Notes	fish: 12.1. Toxicity to							n.d.a.
Acute toxicity, by oral	Int LD50	1900	mg/k	m Rat	OECD 401	Female	daphnia:							
route:	2000	1300	g g	ivat	(Acute Oral Toxicity)	1 Gillaic	12.1. Toxicity to algae:						_	n.d.a.
Acute toxicity, by oral	ATE	1900	mg/k		i oniolty)		12.2. Persistence and							With w at the
route: Acute toxicity, by	ATE	1100	g mg/k				degradability:							interfa transfo
dermal route: Acute toxicity, by	LD50	790	g mg/k	Rabbit		Does not								slowly format
dermal route:			g			conform with EU classificatio								of CO into a insolu
Acute toxicity, by	LC50	1,45	mg/l/	Rat		n. Vapours								reactio
inhalation: Acute toxicity, by	ATE	1,45	4h mg/l/			Vapours								with a meltin
inhalation: Acute toxicity, by	ATE	0,5	4h mg/l/			Dusts or								point
inhalation:		0,5	4h	Dahhit	OECD 404	mist								(polyca mide).
Skin corrosion/irritation:				Rabbit	(Acute Dermal Irritation/Corrosio n)	Skin Corr. 1B								Accord to experi
Serious eye damage/irritation:					,	Eye Dam. 1								availat to date
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Skin Sens.								polyca ide is i
Germ cell mutagenicity:				Salmonel la typhimuri	OECD 471 (Bacterial Reverse	Negative	12.3.							and no degrao n.d.a.
				um	Mutation Test)		Bioaccumulative potential:							
Silicon dioxide Toxicity / effect	Endpo	Value	Unit	Organis	Test method	Notes	12.4. Mobility in soil:							n.d.a.
Acute toxicity, by dermal route:	int LD50	> 2000	mg/k g	m Rat	OECD 402 (Acute Dermal		12.5. Results of PBT and vPvB assessment							n.d.a.
Skin			+	Rabbit	Toxicity) OECD 404	Not irritant	12.6. Endocrine disrupting							Does r apply t
corrosion/irritation:					(Acute Dermal Irritation/Corrosio n)		properties: 12.7. Other adverse effects:							No inform
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosio n)	Not irritant								availa on oth advers effects
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative								the enviro t.
Aspiration hazard:				1		No	Reaction mass of Toxicity / effect	4,4'-methyle Endpoin	nediphen Tim	yl diisoc Valu	yanate ar Unit	id o-(p-isocya Organism	natobenzyl)phenyl Test	l isocyana Notes
Calcium carbonate Toxicity / effect	Endpo	Value	Unit	Organis	Test method	Notes	12.1. Toxicity to	t LC50	e 96h	e >	mg/l	Brachydan	method	
Acute toxicity, by oral	Int LD50	>2000	mg/k	m Rat	OECD 420		fish:	2000	3011	> 100 0	ing/i	rerio	(Fish, Acute Toxicity	
route:			g		(Acute Oral toxicity - Fixe Dose Procedure)		12.1. Toxicity to daphnia:	NOEC/N OEL	21d	>10	mg/l	Daphnia magna	OECD 211 (Daphnia	
Acute toxicity, by oral route:	LD50	>5000	mg/k a	Rat			aup.nita.	~~~				ugria	Reproductio	
Acute toxicity, by dermal route:	LD50	>2000	g mg/k g	Rat	OECD 402 (Acute Dermal Toxicity)		12.1. Toxicity to daphnia:	EC50	24h	> 100	mg/l	Daphnia magna	OECD 202 (Daphnia	
Acute toxicity, by inhalation:	LC50	>3	mg/l/ 4h	Rat	OECD 403 (Acute Inhalation Toxicity)		чарліна.			0		mayna	sp. Acute Immobilisati on Test)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosio	Not irritant	12.2. Persistence and degradability:		28d	0	%	activated sludge	OECD 302 C (Inherent Biodegradab	
Serious eye damage/irritation:				Rabbit	n) OECD 405 (Acute Eye Irritation/Corrosio	Not irritant, Mechanical irritation							ility - Modified MITI Test (II))	
					n)	possible.	12.3.	BCF		200			100	Not to
Respiratory or skin	1					No (skin	Bioaccumulative							expect



3B)															
B) Page 6 of 8 Safety data sheet a Revision date / vers Replacing version o Valid from: 01.11.21 PDF print date: 01. COSMO® PU-205.	sion: 01.11.20 dated / versior 021 11.2021	21 / 0010	0		5, Annex II			12.3. Bioaccumulative potential:	Log Pow		5,22				A notable biological accumulat on potential has to be expected
(COSMOFEN VKD															(LogPow : 3).
Toxicity to bacteria:	EC50	3h	>10 0	mg/l	activated sludge	OECD 209 (Activated Sludge,		12.3. Bioaccumulative potential:	BCF	28d	200		Cyprinus caprio	IUCLID Chem. Data Sheet (ESIS)	Not to be expected
						Respiration Inhibition Test (Carbon and Ammonium		12.4. Mobility in soil: 12.5. Results of PBT and vPvB assessment	H (Henry)	01	0,02 29	Pa*m 3/mol			No PBT substance No vPvB substance
Methylenedipheny	d diise swame	a madif	 			Oxidation))		Toxicity to bacteria:	EC50	3h	>10 0	mg/l	activated sludge	OECD 209 (Activated	Analogous conclusior
Toxicity / effect	Endpoin	Tim	Valu	Unit	Organism	Test method	Notes							Sludge, Respiration Inhibition	
12.1. Toxicity to fish:	LC50	e 96h	e >10 00	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity Test)								Test (Carbon and Ammonium	
12.1. Toxicity to daphnia:	NOEC/N OEL	21d	>=1 0	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproductio		Other organisms:	NOEC/N OEL	14d	>10 00	mg/k g	Lactuca sativa	Oxidation)) OECD 208 (Terrestrial Plants,	Analogou conclusio
12.2. Persistence and degradability:		28d	0	%	activated sludge	n Test) OECD 302 C (Inherent Biodegradab ility -		Other organisms:	NOEC/N OEL	14d	>10 00	mg/k g	Avena sativa	Growth Test) OECD 208 (Terrestrial Plants,	Analogou conclusio
						Modified MITI Test		Other	AOX					Growth Test)	Does not
12.3. Bioaccumulative potential: Toxicity to	BCF EC50	3h	200	mg/l	activated	(II)) OECD 305 (Bioconcentr ation - Flow- Through Fish Test) OECD 209	Not to be expected	information:	AUX						contain any organicall bound halogens which can
bacteria:			0		sludge	(Activated Sludge, Respiration Inhibition Test									contribute to the AO value in waste water.
						(Carbon and Ammonium Oxidation))		Other information:							According to experienc available to date,
4,4'-methylenedip Toxicity / effect	henyl diisocy Endpoin	anate Tim	Valu	Unit	Organism	Test	Notes								polycarba ide is iner
12.1. Toxicity to fish:	t LC50	e 96h	e >10 00	mg/l	Brachydanio rerio	method OECD 203 (Fish, Acute Toxicity	Analogous conclusion								and non- degradabl ., With water at
12.1. Toxicity to daphnia:	EC50	24h	>10 00	mg/l	Daphnia magna	Test) OECD 202 (Daphnia sp. Acute Immobilisati on Test)	Analogous conclusion								the interface, transforms slowly with formation of CO2
12.1. Toxicity to daphnia:	NOEC/N OEL	21d	>10	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproductio n Test)	Analogous conclusion								into a firm insoluble reaction product with a hig
12.1. Toxicity to algae:	ErC50	72h	>16 40	mg/l	Desmodesm us subspicatus	OECD 201 (Alga, Growth Inhibition Test)	Analogous conclusion	Toxicity to	NOEC/N	14d	>	mg/k	Lumbricus	OECD 207	melting point (polycarba mide). Analogou
12.2. Persistence and degradability:		28d	0	%		OECD 302 C (Inherent Biodegradab ility -	Not biodegrada ble, With water at	annelids:	OEL		100 0	g	terrestris	(Earthworm, Acute Toxicity Tests)	conclusio
						Modified MITI Test (II))	the interface, transforms slowly with	Toxicity to annelids:	EC50	14d	>10 00	mg/k g	Eisenia foetida	OECD 207 (Earthworm, Acute Toxicity Tests)	Analogou: conclusio
							formation of CO2 into a firm,	Poly[oxy(methyl-1	1,2-ethanediv	l)], .alpha	hydro-	omegah	ydroxy-		
							insoluble reaction	Toxicity / effect	Endpoin t	Tim	Valu e	Unit	Organism	Test method	Notes
							product with a high melting point	12.1. Toxicity to fish:	LC50	96h	>10 0		Poecilia reticulata	OECD 203 (Fish, Acute Toxicity Test)	
							(polycarba mide)., According to experience	12.1. Toxicity to daphnia:	EC50	48h	>10 0	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisati on Test)	
							available to date, polycarbam ide is inert and non-	12.1. Toxicity to algae:	EC0	72h	>10 0	mg/l	Desmodesm us subspicatus	OECD 201 (Alga, Growth Inhibition Test)	Analogou conclusio
							degradable ., Analogous conclusion	12.2. Persistence and degradability:		28d	87	%		OECD 301 F (Ready Biodegradab ility - Manometric Respirometr y Test)	



B) Page 7 of 8 Safety data sheet a Revision date / vers	ion: 01.11.20	021 / 0010	0		ö, Annex II			disrupting properties:							
Replacing version of Valid from: 01.11.20 PDF print date: 01.1 COSMO® PU-205. (COSMOFEN VKD	021 11.2021 140	1: 29.07.2	:021 / 000	09				Toxicity to bacteria:	EC50	3h	>10 00	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test	
12.4. Mobility in	Koc		1-10											(Carbon and	
soil: Toxicity to	EC50	3h	>10	mg/l	activated	OECD 209	Analogous							Ammonium Oxidation))	
bacteria:			00		sludge	(Activated Sludge, Respiration Inhibition Test (Carbon	conclusion	Toxicity to annelids:					Eisenia foetida	OECD 207 (Earthworm, Acute Toxicity Tests)	N
						and Ammonium			SECT	ION 1	3: Dis	sposal	considera	ations	
						Oxidation))									
Benzoyl chloride Toxicity / effect	Endpoin	Tim	Valu	Unit	Organism	Test	Notes	13.1 Waste tre For the subst				lamoun	ite		
12.1. Toxicity to	t LC50	e 96h	e 34,7	mg/l	Pimephales	method	OPPTS	EC disposal code	no.:						
fish: 12.1. Toxicity to	LC50	96h	180	mg/l	promelas	U.S. EPA-	850.1075	The waste codes Owing to the user's	s specific cond	litions for	use and	disposal, o			
daphnia:	LC30	9011	100	iiig/i		660/3-75-		allocated under ce 08 04 09 waste ad	rtain circumsta hesives and s	ances. (20 ealants co	014/955/E ontaining	EU) organic so	lvents or other ha	azardous substan	ces
12.1. Toxicity to	EC50	72h	45	mg/l	Pseudokirch	009 OECD 201		08 05 01 waste isc	cyanates	Salarno o	Jindining	organio oo			
algae:				5	neriella subcapitata	(Alga,		Recommendation: Sewage disposal s	shall be discou	raged.					
					Suncahilala	Growth Inhibition		Pay attention to loo E.g. suitable incine	cal and nation	al official	regulation	ns.			
12.1. Toxicity to	EC10	72h	21,3	mg/l	Pseudokirch	Test) OECD 201		Hardened product:							
algae:	2010		4		neriella	(Alga,		E.g. dispose at sui For contamin			erial				
					subcapitata	Growth Inhibition		Pay attention to loo	cal and nation			ns.			
40.0		00.1		0(a athresis al	Test)	Deedlike	Empty container of Uncontaminated p		he recycle	- ad				
12.2. Persistence and		20d	95	%	activated sludge	OECD 301 D (Ready	Readily biodegrada	Dispose of packag	ing that canno	t be clear	ned in the	same ma	nner as the subst	tance.	
degradability:						Biodegradab ility - Closed	ble	15 01 10 packagin	<u> </u>				·		
						Bottle Test)			SEC	TION	14: T	ranspo	ort informa	ation	
12.3. Bioaccumulative	Log Pow		1,44				LowQSAR								
potential:	5050		<u> </u>					General state			(010)				
Toxicity to bacteria:	EC50	3h	>10 0	mg/l				14.1. UN number of		II (ADR	/RID)	Not	applicable		
Silicon dioxide								14.2. UN proper sh	nipping name:				approable		
Toxicity / effect	Endpoin	Tim	Valu	Unit	Organism	Test	Notes	Not applicable 14.3. Transport ha	zard class(es)				applicable		
12.2.	t	е	е			method	Inorganic	14.4. Packing grou 14.5. Environment				Not	applicable applicable		
Persistence and							products	Tunnel restriction of	code:			Not	applicable		
degradability:							cannot be eliminated	Classification code LQ:	e:				applicable applicable		
							from water	Transport category	<i>r</i> :				applicable		
							through biological	Transport by		-code)		Not			
							purification	14.1. UN number of 14.2. UN proper sh				NOT	applicable		
12.5. Results of			<u> </u>				methods. No PBT	Not applicable 14.3. Transport ha	zard class(es)			Not	applicable		
PBT and vPvB assessment							substance, No vPvB	14.4. Packing grou	ip:			Not	applicable		
							substance	14.5. Environment Marine Pollutant:	ai nazaros:			Not	applicable applicable		
Calcium carbonate)							EmS:				Not	applicable		
Toxicity / effect	Endpoin	Tim	Valu	Unit	Organism	Test	Notes	14.1. UN number of				Not	applicable		
12.1. Toxicity to	LC50	96h	>10	mg/l	Oncorhynch	OECD 203		14.2. UN proper sh Not applicable							
fish:			0		us mykiss	(Fish, Acute Toxicity		14.3. Transport ha					applicable		
						Test)		14.4. Packing grou 14.5. Environment	ip: al bazarde:				applicable applicable		
12.1. Toxicity to fish:	LC50	96h	>10 000	mg/l	Oncorhynch us mykiss			14.6. Special		s for u	ser	1401	applicable		
12.1. Toxicity to	EC50	48h	>10 00	mg/l	Daphnia			Unless specified o							
daphnia: 12.1. Toxicity to	EC50	48h	>10	mg/l	magna Daphnia	OECD 202		14.7. Maritime Non-dangerous ma					IMO instrum	nents	
daphnia:			0		magna	(Daphnia sp. Acute				-		-	ory inform	ation	
						Immobilisati			JEC		ъ. к е	guiat	siy morm	ation	
12.1. Toxicity to	EC50	72h	>20	mg/l	Desmodesm	on Test) OECD 201		15 1 Safatir -	oolth and	nn de -	mort	Iroaula	tions/lacist-	tion one-iti-	fe
algae:			0		us	(Alga,		15.1 Safety, h substance or			menta	reguia	uons/iegisia	uon specific	OF
					subspicatus	Growth Inhibition									
12.2.		<u> </u>	<u> </u>			Test)	Inorganic	Observe restriction Comply with nation		laws gov	erning th	e protectio	n of young people	e at work (nationa	al
Persistence and							products	implementation of Regulation (EC) N	the Directive 9	4/33/EC)	!		, JI-F	(.	
degradability:							cannot be eliminated	Reaction mass of	4,4'-methylene	diphenyl	diisocyar	nate and o-	(p-isocyanatober	nzyl)phenyl isocya	anate
							from water	Methylenedipheny 4,4'-methylenediph	I diisocyanate	modified				,	
							through biological	Comply with nation			erning m	aternity pro	otection (national	implementation o	of the
							purification methods.	92/85/EEC)! Comply with trade	association/or	cupation	al health	regulations	5.		
12.3.		<u> </u>					Not			-padon		-			
Bioaccumulative potential:							relevant for	Directive 2010/75/	EU (VOC):			0 %	•		
potornia.							inorganic	National requirement	ents/regulatior	s on safe	ty and he	alth protec	tion must be app	lied when using w	vork
							substances	equipment.							
12.4. Mobility in							Not rolovant	15.2 Chemica A chemical safety				nivtures			
soil:							relevant for	A unemical safety							
I							inorganic		SI		PN 16:	Other	informatio	on	
							substances	Boyland a 1'					•		
							1	Revised sections:				1-16	D		
12.5. Results of PBT and vPvB							Not	These details refer							
12.5. Results of PBT and vPvB assessment							relevant for	These details refer Employee instructi				s materials	s is required.		
PBT and vPvB							relevant		on/training in I	nandling I	nazardou			ation of the n	nixt



GB Page 8 of 8

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0010 Replacing version dated / version: 29.07.2021 / 0009 Vaild from: 01.11.2021 PDF print date: 01.11.2021 COSMO® PU-205.140

(COSMOFEN VKD 874 - Härter)

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 na the constituents. H373 May cause damage to organs through prolonged or repeated exposure by inhalation. H302 Harmful if swallowed. H312 Harmful in contact with skin.

Half Causes severe skin burns and eye damage.
H315 Causes severe skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.

H331 Toxic if inhaled.

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 Carc. — Carcinogenicity STOT RE — Specific target organ toxicity - repeated exposure Acute Tox. — Acute toxicity - inhalation Acute Tox. — Acute toxicity - oral Acute Tox. — Acute toxicity - dermal Skin Corr. — Skin corrosion Eye Dam. — Serious eye damage

Key literature references and sources

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

ECHA Homepage - Information about chemicals. GESTIS Substance Database (Germany).

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

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 Art., Art. no. Article number Art., Art. no. Article number ASTM ASTM International (American Society for Testing and Materials) ATE Acute Toxicity Estimate BAM Bundesanstalt für Materialforschung und -prüfung (= Federal Institute for Materials Research and BAW Bundesanstalt für Materialorschung und -prüfung (= Pederal Institute för Materials Research and Testing, Germany) BAUA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany) Bioconcentration factor BCF BSEF The International Bromine Council
 DBSEF
 The international bromine Council

 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

 DMEL
 Derived Minimum Effect Level
 DNEL Derived No Effect Level
 DNCL
 Dissolved organic carbon

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

 EbCx, EyCx, EbLx (x = 10, 50)
 Effect Concentration/Level of x % on reduction of the biomass
 (algae, plants) European Community ĒC 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 List of Notified Chemical Substances EN European Norms EPA United States Environmental Protection Agency (United States of America) c, ErLx (x = 10, 50) Effect Concentration/Level of x % on inhibition of the growth rate ErCx, $E\mu Cx$, ErLx (x = 10, 50) (algae, plants) etc. et cetera

EU	European Union
EVAL	Ethylene-vinyl alcohol copolymer
Fax.	Fax number
gen. GHS	general Classification and Labelling of Chamicala
GWP	Globally Harmonized System of Classification and Labelling of Chemicals Global warming potential
Koc	Adsorption coefficient of organic carbon in the soil
Kow	octanol-water partition coefficient
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association International Bulk Chemical (Code)
	International Maritime Code for Dangerous Goods
incl.	including, inclusive
IUCLID	International Uniform Chemical Information Database
IUPAC LC50	International Union for Pure Applied Chemistry Lethal Concentration to 50 % of a test population
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, L	
LQ MARPOL	Limited Quantities
mg/kg bw	International Convention for the Prevention of Marine Pollution from Ships mg/kg body weight
	i, mg/kg bw/day mg/kg body weight/day
mg/kg dw	mg/kg dry weight
mg/kg wwt	
n.a. n.av.	not applicable
n.av. n.c.	not checked
n.d.a.	no data available
NIOSH	National Institute for Occupational Safety and Health (USA)
NLP	No-longer-Polymer
NOEC, NO OECD	EL No Observed Effect Concentration/Level Organisation for Economic Co-operation and Development
org.	organic
OŜHA	Occupational Safety and Health Administration (USA)
PBT	persistent, bioaccumulative and toxic
PE PNEC	Polyethylene Predicted No Effect Concentration
ppm	parts per million
PVC	Polyvinylchloride
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No
1907/2006 REACH-IT	concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals) List-No. 6/7/8/9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a
	r other numerical identifier. List Numbers do not have any legal significance, rather they are purely
	lentifiers for processing a submission via REACH-IT.
RID	Règlement concernant le transport International ferroviaire de marchandises Dangereuses (=
Regulation SVHC	concerning the International Carriage of Dangerous Goods by Rail)
Tel.	Substances of Very High Concern Telephone
TOC	Total organic carbon
UN RTDG	United Nations Recommendations on the Transport of Dangerous Goods
VOC	Volatile organic compounds
vPvB	very persistent and very bioaccumulative
The statem	ents made here should describe the product with regard to the necessary safety precautions - they
are	a supervise definite abare to define that the case has a damage of the task of the definite data
No respons	to guarantee definite characteristics - but they are based on our present up-to-date knowledge.
	admity. ements were made by:
Chemica	al Check GmbH, Chemical Check Platz 1-7, D-32839 Steinheim, Tel.: +49
5233 94	17 0, Fax: +49 5233 94 17 90
	ical Check GmbH Gefahrstoffberatung. The copying or changing of this document
	n except with consent of the Chemical Check GmbH Gefahrstoffberatung.