

Page 1 of 7 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 12.05.2022 / 0011 Replacing version dated / version: 01.11.2021 / 0010 Valid from: 12.05.2022 PDF print date: 16.05.2022 COSMO® PU-100.200	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 include under XIII of the regulation (EC) 1907/2006 (< 0,1 %). The mixture does not contain any substance with endocrine disrupting properties (< 0,1 %).						
(COSMOPUR K1-1644E)	SECTION 3: Composition/info	ormation on ingredients					
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II	3.1 Substances						
	Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate						
	Registration number (REACH)	01-2119457015-45-XXXX					
4.4 Deschool identifier							
1.1 Product identifier							
COSMO® PU-100 200	content %	5-<25					
(COSMOPUR K1-1644E)	Classification according to Regulation (EC) 1272/2008 (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:		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, H334: >=5 %					
	Methylenediphenyl diisocyanate, modified	01 2110457012 40 XXXX					
Hansastrasse 2							
35708 Haiger	EINECS, ELINCS, NLP, REACH-IT List-No.	500-040-3					
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.	Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Resp. Sens. 1, H334 Carc. 2, H351					
1.4 Emergency telephone number Emergency information services / official advisory body:		STOT RE 2, H373 (respiratory system) (as inhalation)					
 Telephone number of the company in case of emergencies: +49 (0) 700 / 24 112 112 (WIC) +1 872 5888271 (WIC)		Skill IIII. 2, H315. >=5 % Eye Irit. 2, H315. >=5 % STOT SE 3, H335: >=5 %					
	4,4'-methylenediphenyl diisocyanate						
SECTION 2: Hazards identification		01-2119457014-47-XXXX					
COMPAPUR K1-444E) 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 Substances 1.1 Product identifier 2.2 Mixture COSMO@ PU-100.200 CosMO@ PU-100.200 (COSMOPUR K1-1644E)							
2.1 Classification of the substance or mixture	CAS	101-68-8					
		5-10					
		Skin Irrit, 2, H315					
	()/ III 1401010	Eye Irrit. 2, H319					
		Resp. Sens. 1, H334					
, , ,							
		STOT SE 3, H335					
symptoms or breathing difficulties if inhaled.		STOT RE 2, H373 (respiratory system) (as inhalation)					
	Specific Concentration Limits and ATE	Skin Irrit. 2, H315: >=5 % Eye Irrit. 2, H319: >=5 %					
STOT RE 2 H373-May cause damage to organs through		Resp. Sens. 1, H334: >=0,1 % STOT SE 3, H335: >=5 %					
inhalation (respiratory system).	The substances named in this section are given with their ac For substances that are listed in appendix VI, table 3.1 of the	tual, appropriate classification! e regulation (EC) no. 1272/2008 (CLP regulation)					
Labeling according to Regulation (EG) 1272/2008 (GLP)	SECTION 4: First a	aid measures					

4.1 Description of first aid measures First-aiders should ensure they are protected! Never pour anything into the mouth of an unconscious person!

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.

Ingestion Rinse the mouth thoroughly with water. Do not induce vomiting - give copious water to drink. Consult doctor immediately. 4.2 Most important symptoms and effects, both acute and delayed

Wipe off residual product carefully with a soft, dry cloth. Remove polluted, scaked clothing immediately, wash thoroughly with plenty of water and scap, in case of irritation of the skin (flare), consult a doctor. Dab away with polyethylene glycol 400

Remove contact lenses. Wash thoroughly for several minutes using copious water - call doctor immediately, have Data Sheet available. Protect uninjured eye. Follow-up examination by an ophthalmologist.

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

Inhalation

Skin contact

Eye contact

Coughing Headaches

Dermatitis (skin inflammation)

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

Effect on the central nervous system



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+P336-IF INE VES: 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.

4,4'-methylenediphenyl diisocyanate Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate Methylenediphenyl diisocyanate, modified

2.3 Other hazards



	Calcey data sheet according to regulation (EO) no 1507/2000, Annex n		isocyanatober	nzyl)phenyl isocyanat	э -	-	nd o-(p-	
	Replacing version dated / version: 01.11.2021 / 0010	all (as -NCO))			j/m3 (Isocya	anates,		
Advance of enclose of enclos	PDF print date: 16.05.2022	BMGV: 1 µmol isocy	yanate-derived diamine/m	ol creatinine in urine)
<form> And material products In the ADD In the ADD</form>	(COSMOPUR K1-1644E)					anates.		
<form> It also it is in present of process it is not statuted in an outcated process it is an out</form>	In case of sensitivity, concentrations below the limit value may already result in asthmatic symptoms.	all (as -NCO))	s: ISC	all (as -NCO)) 0 16702 (Workplace a	ir quality – o	determina	tion of total	I
	In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.		- liqu	id chromatography) -	2007			
	In case of irritation of the lungs, perform first-aid with controlled-dosage aerosol dexamethasone.		sar fibr	npling either onto 2-(1 e filters followed by s	-methoxyph olvent desor	nenylpipe ption or i	razine coate nto impinge	ed glass ers and
Control of the subject of the substance or mixture Subject of the subject of the substance or mixture Subject of the subject of	Medical supervision necessary due to possibility of delayed reaction.		yanate-derived diamine/m					- 2015
1.1 Extractional model according model accordin	SECTION 5: Firefighting measures	GB Chemical Nam	e 4,4'-methylend					
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$ \begin{array}{llllllllllllllllllllllllllllllllllll$	CO2		iso - liqu	cyanate groups in air iid chromatography) -	using 2-(1-n 2007	nethoxyp	nenylpipera	zine and
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	Foam Water jet spray		sar	npling either onto 2-(1	-methoxyph	nenylpipe	razine coate	ed glass
3.2. Special lazarda straing from the substance or mixture builds of stance or mixture build build of stance or mixture build build of stance or mixture build buil			ana	alysis using high perfo	rmance liqu	iid chrom	atography)	
Chief or many biology	In case of fire the following can develop:		- NIC - NIC	OSH 5521 (ISOCYAN OSH 5522 (ISOCYAN	ATES, MON ATES) - 199	NOMERIC) - 1994	
	Oxides of nitrogen		- NIC - OS	OSH 5525 (ISOCYAN HA 18 (Diisocyanates	ATES, TOT 2,4-TDI an	AL (MAP d MDI) -	980	4
Durged processory have handed Image: Durged processory have handed Image: Durged processory have have have have have have have have	Hydrocyanic acid (hydrogen cyanide) Toxic gases		yanate-derived diamine/m		Other in	formatio	n: Sen	
$\frac{1}{24 control or expression of the state is under expressio$	5.3 Advice for firefighters	(GB) Chemical Nam	e Silica, amorph		, ,		,	
According is also at its algorithm. If any control is also as allowed is algorithm. $Max = 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1$	In case of fire and/or explosion do not breathe fumes.	2,4 mg/m3 (resp. dust	t)	WEL-STEL:				
Concounter et intervent et int	According to size of fire	BMGV:			Other in	nformatio	n:	
SECTION 6: Accidental release measures 6.1 Personal precautions, protective equipment and emergency procedures, 6.1.1 For non-measurement expension protective equipment as specified in section 8 to mease of parking or accidental precautions, protective equipment as specified in section 8 to mease of parking or accidental precautions, protective equipment as specified in section 8 to mease of parking or accidental precautions and the section 8 to mease of parking or accidental precautions and the section 8 to mease to drage accident section 8 to mease t	Cool container at risk with water.	WEL-TWA: 4 mg/m	3 (respirable dust), \					
6.1.1 For non-emergency personnel Reaction mass of X-emetyleneityberg/lettory parameter and cy-acceptance barry parameter and cy-acceptance bary parameter and cy-acceptance barry parameter and cy-ac	SECTION 6: Accidental release measures	Monitoring procedures			Other in	nformatio	n:	
6.1.1 For non-emergency personnel Reaction mass of 4.4 methylengiblenyl diacy and a diagonal and the cycle operation with cycle operation with the cycle operation with the cyc	6.1 Personal precautions, protective equipment and emergency procedures							
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Liawa the dinger zone if possible, use actisting emergency plans if meassary. Ensure sufficient support of al. And inhibition, and context with eyes or skin. Section if for suitable protective explorement and material specifications. 5.1 For emergency responders Sense section if for suitable protective explorement and material specifications. 5.2 Environment al processing and material specifications . 5.3 Methods and material for containment and cleaning up Sacks and material for containment and cleaning up subport and according to Section 13. 5.4 Cervicement material (as purchased material specifications). 5.4 Reference to other sections 6.4 Reference to other sections 7.1 Cervice and material specifications . 5.4 Reference to other sections 7.1 Cervice and material specifications and the disposal instructions area special 1.1 Consumer Human - inhalation in the specification is shored and for disposal instructions see Section 13. 3.4 Cervicement 1.1 Consumer Human - inhalation in the specifications 4.4 creativesting and specifications 5.1 Methods and for disposal instructions see Section 13. 5.1 Cervicement 1.1 Consumer Human - inhalation in the specifications 4.4 creativesting and specifications 5.1 Methods and for disposal instructions see Section 13. 1.1 Cervice instructions 1.1 Cervice instructions 1.1	Ensure sufficient ventilation, remove sources of ignition.		compartment	health	•			
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Some and/or is for signable protections on the signable protections on the signable protections of the signable protection of the signable protections of the signable	Avoid inhalation, and contact with eyes or skin.		marine Environment - soil		PNEC		mg/kg	
C.2. Environmental productions PNEC 3.7 µpl Instage occurs, dam µp, Prevent row returns and ground-water infitration, as well as ground privatation. PNEC 3.7 µpl Prevent row returns and ground-water infitration. PNEC 3.7 µpl So Methods and material for containment and cleaning µp sediment, free/water PNEC 11.7 mg/pa So Methods and material for containment and cleaning µp sediment, free/water PNEC 11.7 mg/pa Do not close packing drum. Long term, born close packing drum. DNEL 0.05 mg/m3 Consumer Human - inhaiation local effects DNEL 0.06 mg/m3 Consumer Human - inhaiation Long term, bord close packing drum. DNEL 0.06 mg/m3 Consumer Human - inhaiation Short term, bord effects DNEL 0.06 mg/m3 T.1 Central recommendations Frameworks of the water in this section, relevant information can also be found in section 8 and 6.1. 1			sewage treatment		PNEC	1	mg/l	
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Soak up with absorbert material (e.g. universal binding agent, sand, diatomacious earth, sawdust) and dispose of according to Section 13. allow to stand for a few days in an unclesed container until reaction no longer occurs. Keep moist. Consumer Human - inhalation Consumer Human - inhalation Consumer Human - inhalation Soat term, DNEL O.02 mg/m3 Section Terms and to depose a location of the sport term, and the sport term in the section and nor disposal instructions see Section 13. In addition to information given in this section, relevant information can also be found in section 8 and 6.1. 7.1 Forecautions for safe handling Are of application Environmental measures at the workstation or on the processing machine necessary. Is contained with space to rease of allergies, asthma und chonic respiratory tract disorders. Consumer Human - inhalation Section S for safe handling of chemicals are applicable. Workers / Human - inhalation Section measures at the workplate or the workplate or the value or the processing machine necessary. Is policiable, suction measures at the workplate or entering areas in which food is consumed. Rever out application for all or diverse and protection espiratory tract disorders. Environment - PNEC 1 mg/m3 Provider or terms or the sport of the sport or terms or or te	If accidental entry into drainage system occurs, inform responsible authorities.		-		PNEC	1 17	weight	
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7.1.2 Notes on general hygiene measures at the workplace Christian in the solin Chris	Observe directions on label and instructions for use.		sewage treatment plant			0.00	-	
Wash hands before breaks and at end of work. sporadic sporadic intermittent) release intermittent) releas	7.1.2 Notes on general hygiene measures at the workplace						dw	
Remove contaminated clothing and protective equipment before entering areas in which food is consumed. PNEC 11,7 mg/kg 7.2 Conditions for safe storage, including any incompatibilities sediment, freshwater PNEC 11,7 mg/kg Keep out of access to unauthorised individuals. Environment - sediment, marine PNEC 11,17 mg/kg Store product closed and only in original packing. Environment - sediment, marine PNEC 11,17 mg/kg Store product closed and only in original packing. Short term, parking DNEL 2.0 bw/day Store in a dry place. Consumer Human - oral Short term, by DNEL 2.0 bw/day Adhesive Store transformed in terms Short term, by DNEL 17,2 mg/kg Consumer Human - dermal Short term, by DNEL 17,2 mg/kg Consumer Human - dermal Short term, by DNEL 2.5 mg/kg Consumer Human - inhalation Short term, by DNEL 2.5 mg/kg Consumer Human - inhalation Short term, by DNEL 2.5 mg/kg Consumer <	Wash hands before breaks and at end of work. Keep away from food, drink and animal feedingstuffs.		sporadic (intermittent) release				P9'	
Not to be stored in gangways or stair wells. PNEC 1,17 mg/kg Store product closed and only in original packing. sediment, marine PNEC 1,17 mg/kg Store product closed and only in original packing. consumer Human - oral Short term, local effects DNEL 20 mg/kg Store in a dry place. 7.3 Specific end use(s) Adhesive Consumer Human - dermal Short term, local effects DNEL 17.2 mg/kg Consumer Human - dermal Short term, local effects DNEL 22 mg/kg Consumer Human - dermal Short term, local effects DNEL 25 mg/kg Consumer Human - inhalation Short term, local effects DNEL 0,05 mg/kg Consumer Human - inhalation Short term, local effects DNEL 0,05 mg/kg	Remove contaminated clothing and protective equipment before entering areas in which food is consumed. 7.2 Conditions for safe storage, including any incompatibilities		Environment -		PNEC	11,7	dry	
Steep protected from direct sunlight and temperatures over 50°C. weight Only store at temperatures from 15°C to 25°C. Short term, DNL Store in a dry place. Consumer Human - oral Short term, DNL 20 mg/kg 7.3 Specific end use(s) Adhesive Consumer Human - dermal Short term, DNEL 17.2 mg/kg Sectron 4 weight Consumer Human - dermal Short term, DNEL 17.2 mg/kg Consumer Human - dermal Short term, DNEL 17.2 mg/kg Consumer Human - dermal Short term, DNEL 2.5 mg/kg Consumer Human - inhalation Short term, DNEL 2.5 mg/kg Consumer Human - inhalation Short term, DNEL 0.05 mg/m3 Iocal effects Consumer Human - inhalation Short term, DNEL 0.05	Not to be stored in gangways or stair wells.				PNEC	1,17	mg/kg	
Store in a dry place. systemic effects bw/day 7.3 Specific end use(s) Consumer Human - dermal Short term, local effects DNEL 17.2 mg/cm Adhesive Consumer Human - dermal Short term, local effects DNEL 2 Consumer Human - dermal Short term, local effects DNEL 2 Consumer Human - inhalation Short term, local effects DNEL 2 Consumer Human - inhalation Short term, local effects DNEL 0.05 mg/ra Consumer Human - inhalation Short term, local effects DNEL 0.05 mg/ra	Keep protected from direct sunlight and temperatures over 50°C.	Consumer			DNEL	20	weight	
Adhesive Consumer Human - dermal Short term, DNEL 25 mg/kg SECTION 8: Exposure controls/personal protection Consumer Human - inhalation Short term, DNEL 25 mg/kg Consumer Human - inhalation Short term, DNEL 0.05 mg/kg Consumer Human - inhalation Short term, DNEL 0.05 mg/m3 Consumer Human - inhalation Short term, DNEL 0.05 mg/m3	Store in a dry place.			systemic effects Short term,			bw/day mg/cm	
Consumer Human - inhalation Short term, local effects DNEL 0,05 mg/m3 Consumer Human - inhalation Short term, DNEL 0,05 mg/m3 Consumer Human - inhalation Short term, DNEL 0,05 mg/m3	Adhesive	Consumer	Human - dermal	Short term,	DNEL	25	mg/kg	
Consumer Human - inhalation Short term, DNEL 0,05 mg/m3	SECTION 8: Exposure controls/personal protection	Consumer	Human - inhalation	Short term,	DNEL	0,05		
	8.1 Control parameters			Short term, systemic effects			-	
B Consumer Human - inhalation Long term, DNEL 0,02 mg/m3 local effects 5	38)	Consumer	Human - inhalation		DNEL		mg/m3	



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(COSMOPUR K1-1644E)

Consumer	Human - inhalation	Long term, systemic effects	DNEL	0,02 5	mg/m3	
Workers / employees	Human - dermal	Short term, local effects	DNEL	28,7	mg/cm 2	
Workers / employees	Human - dermal	Short term, systemic effects	DNEL	50	mg/kg bw/day	
Workers / employees	Human - inhalation	Short term, local effects	DNEL	0,1	mg/m3	
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	0,1	mg/m3	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	0,05	mg/m3	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	0,05	mg/m3	

Aluminium hydroxide)					
Area of application	Exposure route / Environmental compartment	Effect on health	Descri ptor	Valu e	Unit	Note
	Human - inhalation	Long term, local effects	DNEL	10,7 6	mg/m3	
	Human - inhalation	Long term, systemic effects	DNEL	10,7 6	mg/m3	
Consumer	Human - oral	Short term, systemic effects	DNEL	4,74	mg/kg bw/d	

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany). (8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (11) = Inhalable fraction (Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0.002 mg Cd/g creatinine in urine (Directive 2004/37/CE). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period). reference period).

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

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

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

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

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

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

Protective hand cream recommended

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

Normally protection. Normally not necessary. If OES or MEL is exceeded. Filter A2 P2 (EN 14387), code colour brown, white Observe wearing time limitations for respiratory protection equipment.

Thermal hazards: Not applicable

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

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.

Selection of materials derived from glove manufacturer's indications. Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account. Selection of a suitable glove depends not only on the material but also on other quality characteristics and

varies from manufacturer to manufacturer

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

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

8.2.3 Environmental exposure controls

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and ch	nemical 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:	There is no information available on this parameter.
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:	~1,47 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.
Aerosols - Chemical heat of combustion:	There is no information available on this parameter.
Oxidising liquids:	No
Evaporation rate:	n.a.
Molar mass:	There is no information available on this parameter.
Metal content:	There is no information available on this parameter.

SECTION 10: Stability and reactivity

10.1 Reactivity 10.2 Chemical stability Stable with proper storage and handling. 10.3 Possibility of hazardous reactions Exothermic reaction possible with Alcohols Amines Bases 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. Acids Amines Alcohols Water 10.6 Hazardous decomposition products See also section 5.2

No decomposition when used as directed.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 Possibly more information on health effects, see Section 2.1 (classification) COSMO® PU-100.200

(COSMOPUR K1-1644E	Ξ)					
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, calculated 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.
Reaction mass of 4,4'-	methvlened	iphenvl diiso	cvanate a	nd o-(p-isocv	anatobenzvi)phenv	l isocvanate
Toxicity / effect	Endpo	Value	Unit	Organis	Test method	Notes
•	int			m		
Acute toxicity, by oral route:	LD50	> 10000	mg/k q	Rat		
Acute toxicity, by dermal route:	LD50	> 9400	mg/k g	Rabbit		
Acute toxicity, by inhalation:	LC50	0,49	mg/l/ 4h	Rat		Mist, Dust:, Does not conform with EU

classificatio



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Valid from: 12.05.2022 PDF print date: 16.05.20 COSMO® PU-100.200 (COSMOPUR K1-1644E)22		5010				Reproductive toxicit	iy: NOAE L	4-12	mg/m 3	Rat	enicity Studies) OECD 414 (Prenatal Developmental Toxicity Study)	Aerosol, Analogou conclusio
Skin corrosion/irritation:	_/			Rabbit	OECD 404 (Acute Dermal Irritation/Corrosio	Irritant	Specific target orga toxicity - single exposure (STOT-SI inhalative:	Ξ),					May caus respirato irritation.
Respiratory or skin sensitisation: Germ cell				Guinea pig Salmonel	n) OECD 406 (Skin Sensitisation) Regulation (EC)	Yes (inhalation and skin contact) Negative	Specific target orga toxicity - repeated exposure (STOT-RI inhalat.:	L	1	mg/m 3	Rat	OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies)	Aerosol, Analogou conclusio Target organ(s): respirato
mutagenicity:				la typhimuri um	440/2008 B.13/B.14 (REVERSE MUTATION TEST USING BACTERIA)	Negalive	Specific target orga toxicity - repeated exposure (STOT-R inhalat.:	L	0,2	mg/m 3	Rat	OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies)	Aerosol, Analogou conclusic Target organ(s):
Germ cell mutagenicity:				Rat	OECD 474 (Mammalian Erythrocyte Micronucleus	Negative	Silica, amorphous						respirato system
Carcinogenicity:				Rat	Test) OECD 453	Carc. 2	Toxicity / effect	Endpo	Value	Unit	Organis	Test method	Notes
Carcinogenicity.				rai	(Combined Chronic Toxicity/Carcinog enicity Studies)	Galt. 2	Acute toxicity, by or route:		>5000	mg/k g	m Rat	OECD 423 (Acute Oral Toxicity - Acute Toxic Class	
Methylenediphenyl diis Toxicity / effect	Endpo	nodified Value	Unit	Organis	Test method	Notes	Acute toxicity, by dermal route:	LD50	> 2000	mg/k g	Rat	Method) OECD 402 (Acute Dermal	
Acute toxicity, by oral route:	LD50	>2000	mg/k g	m Rat	OECD 401 (Acute Oral Toxicity)	Analogous conclusion	Skin corrosion/irritation:				Rabbit	Toxicity) OECD 404 (Acute Dermal Irritation/Corrosio	Not irritar
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosio n)	Skin Irrit. 2	Serious eye damage/irritation:				Rabbit	n) OECD 405 (Acute Eye Irritation/Corrosio	Not irritan
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosio n)	Eye Irrit. 2	Germ cell mutagenicity:					n) OECD 471 (Bacterial Reverse	Negative
Respiratory or skin sensitisation:				Mouse		Yes (inhalation)	Aspiration hazard:					Mutation Test)	No
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Yes (skin contact)	Calcium carbonate	9					
Germ cell mutagenicity:				Salmonel	Regulation (ÉC) 440/2008	Negative	Toxicity / effect	Endpo int	Value	Unit	Organis m	Test method	Notes
				typhimuri um	B.13/B.14 (REVERSE MUTATION TEST USING BACTERIA)		Acute toxicity, by or route:	al LD50	>2000	mg/k g mg/k	Rat Rat	OECD 420 (Acute Oral toxicity - Fixe Dose Procedure)	
Germ cell mutagenicity:				Rat	OECD 474 (Mammalian Erythrocyte Micronucleus	Negative	Acute toxicity, by dermal route:	LD50	>2000	g mg/k g	Rat	OECD 402 (Acute Dermal Toxicity)	
Specific target organ toxicity - repeated exposure (STOT-RE),	NOEC	0,2	mg/m 3	Rat	Test) OECD 453 (Combined Chronic		Acute toxicity, by inhalation: Skin	LC50	>3	mg/l/ 4h	Rat Rabbit	OECD 403 (Acute Inhalation Toxicity) OECD 404	Not irritar
inhalat.:					Toxicity/Carcinog enicity Studies)		corrosion/irritation:					(Acute Dermal Irritation/Corrosio n)	
4,4'-methylenedipheny Toxicity / effect	Endpo	ate Value	Unit	Organis	Test method	Notes	Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye	Not irritar Mechanic
Acute toxicity, by oral route:	LD50	>2000	mg/k g	m Rat	Regulation (EC) 440/2008 B.1 (ACUTE ORAL	Analogous conclusion	Respiratory or skin sensitisation:					Irritation/Corrosio n)	irritation possible. No (skin contact)
Acute toxicity, by dermal route:	LD50	>9400	mg/k g	Rabbit	TOXICITY) OECD 402 (Acute Dermal Toxicity)	Analogous conclusion	Germ cell mutagenicity: Carcinogenicity:					in vitro	Negative Negative administe
Acute toxicity, by inhalation:	LC50	0,368	mg/l/ 4h	Rat	OECD 403 (Acute Inhalation Toxicity)	Aerosol, Does not conform with EU classificatio n.	Reproductive toxicit	iy:					d as Ca- lactate Negative, administe d as Ca- carbonate
Acute toxicity, by inhalation:	LC50	1,5	mg/l/ 4h			Aerosol, Expert judgement.	11.2. Informati		r hazards				
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosio n)	Skin Irrit. 2, Analogous conclusion	(COSMOPUR K1-1 Toxicity / effect		Value	Unit	Organis	Test method	Notes
Respiratory or skin sensitisation:				Guinea pig		Yes (inhalation)	Endocrine disruptin properties:			+	m		Does not
Respiratory or skin sensitisation:				Mouse	OECD 429 (Skin Sensitisation - Local Lymph Node Assay)	Skin Sens. 1	Other information:						apply to mixtures. No other relevant
Germ cell mutagenicity:				Salmonel la typhimuri um	OECD 471 (Bacterial Reverse Mutation Test)	Negative, Analogous conclusion							information available on advers effects or health.
Germ cell mutagenicity:				Rat	OECD 474 (Mammalian Erythrocyte Micronucleus	Negativem ale		SECT	ION 12:	Ecologi	cal infor	mation	i neaith.
Germ cell mutagenicity:				Rat	Test) OECD 489 (In Vivo Mammalian Alkaline Comet	Negativem ale	Possibly more infor COSMO® PU-100.	mation on envir 200	onmental effe	ects, see Sec	ction 2.1 (class	ification).	
					Aikaiine Comet Assay)		(COSMOPUR K1-1 Toxicity / effect	644E) Endpoin t	Tim Va e e	u Unit	Organism	n Test method	Notes
							1	-					



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PDF print date: 16. COSMO® PU-100.	.05.2022							Toxicity to bacteria:	EC50	3h	>10 0	mg/l	activated sludge	OECD 209 (Activated Sludge,	
(COSMOPUR K1-1	1644E)													Respiration	
12.1. Toxicity to daphnia:							n.d.a.							Test (Carbon	
12.1. Toxicity to algae:							n.d.a.							and Ammonium	
12.2. Persistence and degradability:							With water at the interface,	4,4'-methylenedip	henvl diisocy	anate				Oxidation))	
aogradabiity.							transforms slowly with	Toxicity / effect	Endpoin	Tim	Valu e	Unit	Organism	Test method	Notes
							formation of CO2	Other information:							Accordin to
							into a firm, insoluble								experien available
							reaction product								to date, polycarba
							with a high melting								ide is ine and non-
							point (polycarba								degradat
							mide). According to								water at the
							experience available								interface, transform slowly wit
							to date, polycarbam								formation of CO2
							ide is inert and non-								into a firn insoluble
							degradable								reaction product
12.3. Bioaccumulative potential:							n.d.a.								with a hig melting point
12.4. Mobility in soil:							n.d.a.								(polycarb mide).
12.5. Results of PBT and vPvB assessment							n.d.a.	12.4. Mobility in soil: 12.1. Toxicity to	H (Henry) LC50	96h	0,02 29 >10	Pa*m 3/mol mg/l	Brachydanio	OECD 203	Analogou
12.6. Endocrine disrupting properties:							Does not apply to mixtures.	fish:			00		rerio	(Fish, Acute Toxicity Test)	conclusio
12.7. Other adverse effects:							No information available	12.2. Persistence and degradability:		28d	0	%		OECD 302 C (Inherent Biodegradab	Not biodegrad ble, With
							on other adverse	degradability.						ility - Modified	water at the
							effects on the							MITI Test (II))	interface, transform
							environmen t.							(,)	slowly wit formation
Reaction mass of		nediphen													of CO2 into a firm
Toxicity / effect	Endpoin t	Tim e	Valu e	Unit	Organism	Test method	Notes								insoluble reaction
12.2. Persistence and		28d	0	%	activated sludge	OECD 302 C (Inherent Biodegradab									product with a hig
degradability:						ility - Modified									melting point (polycarb
						MITI Test (II))									mide)., According
12.3. Bioaccumulative potential:	BCF		200				Not to be expected								to experienc available
12.1. Toxicity to fish:	LC50	96h	> 100	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute									to date, polycarba
12.1. Toxicity to	NOEC/N	21d	0 >10	mg/l	Daphnia	Toxicity Test) OECD 211									ide is iner and non- degradab
daphnia:	OEL	210	>10	iiig/i	magna	(Daphnia magna									., Analogou:
						Reproductio n Test)									conclusio
12.1. Toxicity to daphnia:	EC50	24h	> 100	mg/l	Daphnia magna	OECD 202 (Daphnia		12.1. Toxicity to daphnia:	EC50	24h	>10 00	mg/l	Daphnia magna	OECD 202 (Daphnia	Analogou conclusio
•			0		Ĩ	sp. Acute Immobilisati							Ĩ	sp. Acute Immobilisati	
		3h	>10	mg/l	activated	on Test) OECD 209		12.1. Toxicity to	NOEC/N	21d	>10	mg/l	Daphnia	OECD 202	Analogou
Toxicity to	EC50		0		sludge	(Activated Sludge, Respiration		daphnia:	OEL				magna	(Daphnia sp. Acute Immobilisati	conclusio
Toxicity to bacteria:	EC50		1			Respiration Inhibition Test		12.3.	Log Pow		5,22			Immobilisati on Test)	A notable
Toxicity to bacteria:	EC50				1	(Carbon		Bioaccumulative potential:	209100		5,22				biological
Toxicity to bacteria:	EC50					and									on potential
Toxicity to bacteria:	EC50							potentiai.							
bacteria: Methylenediphen;	yl diisocyana					and Ammonium Oxidation))		potential.							has to be expected
bacteria: Methylenediphen, Toxicity / effect		Tim e	Valu e	Unit	Organism	and Ammonium Oxidation)) Test method	Notes		5.057					0505 653	expected (LogPow 3).
bacteria: Methylenediphen;	yl diisocyana	Tim	Valu	Unit %	Organism activated sludge	and Ammonium Oxidation)) Test method OECD 302 C (Inherent Biodegradab ility -	Notes	12.1. Toxicity to algae:	ErC50	72h	>16 40	mg/l	Desmodesm us subspicatus	OECD 201 (Alga, Growth Inhibition Test)	expected (LogPow
Methylenediphen Toxicity / effect 12.2. Persistence and	yl diisocyana Endpoin t	Tim e	Valu e		activated	and Ammonium Oxidation)) Test method OECD 302 C (Inherent Biodegradab ility - Modified MITI Test (II))	Notes	12.1. Toxicity to algae: 12.3. Bioaccumulative	ErC50 BCF	72h 28d		mg/l	us	(Alga, Growth Inhibition Test) IUCLID Chem. Data	expected (LogPow 3). Analogou conclusio
Methylenediphen Toxicity / effect 12.2. Persistence and	yl diisocyana	Tim e	Valu e		activated	and Ammonium Oxidation)) Test method OECD 302 C (Inherent Biodegradab ility - Modified	Notes Not to be expected	12.1. Toxicity to algae: 12.3. Bioaccumulative potential:			40	mg/l	us subspicatus Cyprinus	(Alga, Growth Inhibition Test) IUCLID	expected (LogPow 3). Analogou conclusio
Methylenedipheny Toxicity / effect 12.2. Persistence and degradability: 12.3.	yl diisocyana Endpoin t	Tim e	Valu e 0		activated	and Ammonium Oxidation)) Test method OECD 302 C (Inherent Biodegradab ility - Modified MITI Test (III) OECD 305 (Bioconcentr ation - Flow- Through	Not to be	12.1. Toxicity to algae: 12.3. Bioaccumulative potential: 12.5. Results of PBT and VPVB			40	mg/l	us subspicatus Cyprinus	(Alga, Growth Inhibition Test) IUCLID Chem. Data Sheet	expected (LogPow 3). Analogou conclusic Not to be expected No PBT substanc
Methylenediphen Toxicity / effect 12.2. Persistence and degradability: 12.3. Bioaccumulative	yl diisocyana Endpoin t	Tim e	Valu e 0		activated	and Ammonium Oxidation)) Test method OECD 302 C (Inherent Biodegradab lifty - Modified MITI Test (III) OECD 305 (Bioconcentr ation - Flow-	Not to be	12.1. Toxicity to algae: 12.3. Bioaccumulative potential: 12.5. Results of			40	mg/l	us subspicatus Cyprinus	(Alga, Growth Inhibition Test) IUCLID Chem. Data Sheet	expected (LogPow 3). Analogou conclusio Not to be expected No PBT



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(COSMOPUR K1-1	644E)						
Other information:	AOX						Does not contain any organically bound halogens which can contribute to the AOX value in waste water.
Toxicity to bacteria:	EC50	3h	>10 0	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	Analogous conclusion
Other organisms:	NOEC/N OEL	14d	>10 00	mg/k g	Lactuca sativa	OECD 208 (Terrestrial Plants, Growth Test)	Analogous conclusion
Other organisms:	NOEC/N OEL	14d	>10 00	mg/k g	Avena sativa	OECD 208 (Terrestrial Plants, Growth Test)	Analogous conclusion
Toxicity to annelids:	NOEC/N OEL	14d	> 100 0	mg/k g	Lumbricus terrestris	OECD 207 (Earthworm, Acute Toxicity Tests)	Analogous conclusion
Toxicity to annelids:	EC50	14d	>10 00	mg/k g	Eisenia foetida	OECD 207 (Earthworm, Acute Toxicity Tests)	Analogous conclusion

Silica, amorphous	3						
Toxicity / effect	Endpoin t	Tim e	Valu e	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	EC0	96h	>10 000	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	EC0	24h	>10 00	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisati on Test)	
12.1. Toxicity to algae:	ErC50	72h	>=1 000 0	mg/l	Scenedesm us subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:							Inorganic products cannot be eliminated from water through biological purification methods.
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance

Toxicity / effect	Endpoin t	Tim e	Valu e	Unit	Organism	Test method	Notes
Toxicity to bacteria:	EC50	3h	>10 00	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	
Toxicity to annelids:					Eisenia foetida	OECD 207 (Earthworm, Acute Toxicity Tests)	Negative
12.1. Toxicity to daphnia:	EC50	48h	>10 0	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisati on Test)	
12.1. Toxicity to fish:	LC50	96h	>10 0	mg/l	Oncorhynch us mykiss	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to fish:	LC50	96h	>10 000	mg/l	Oncorhynch us mykiss		
12.1. Toxicity to daphnia:	EC50	48h	>10 00	mg/l	Daphnia magna		
12.1. Toxicity to algae:	EC50	72h	>20 0	mg/l	Desmodesm us subspicatus		

12.1. Toxicity to algae:	EC50	72h	>14	mg/l	Desmodesm us subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:							Inorganic products cannot be eliminated from water through biological purification methods.
12.3. Bioaccumulative potential:							Not relevant for inorganic substances
12.4. Mobility in soil:							Not relevant for inorganic substances
12.5. Results of PBT and vPvB assessment							Not relevant for inorganic substances

SECTION 13: Disposal considerations

13.1 Waste treatment methods

For the substance / mixture / residual amounts

EC disposal code no.:

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

Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU) 08 (04 09 waste adhesives and sealants containing organic solvents or other hazardous substances 08 05 01 waste isocyanates

Recommendation: Sewage disposal shall be discouraged. Pay attention to local and national official regulations. E.g. suitable incineration plant. Hardened product: E.g. dispose at suitable refuse site.

For contaminated packing material Pay attention to local and national official regulations.

Empty container completely. Uncontaminated packaging can be recycled. Dispose of packaging that cannot be cleaned in the same manner as the substance. 15 01 10 packaging containing residues of or contaminated by hazardous substances

to packaging containing residues of or co	mammated by nazardous substances
SECTION 14:	Transport information

General statements	
14.1. UN number or ID number:	n.a.
Transport by road/by rail (ADR/RID)	
14.2. UN proper shipping name:	
14.3. Transport hazard class(es):	n.a.
14.4. Packing group:	n.a.
Classification code:	n.a.
LQ:	n.a.
14.5. Environmental hazards:	Not applicable
Tunnel restriction code:	
Transport by sea (IMDG-code)	
14.2. UN proper shipping name:	
14.3. Transport hazard class(es):	n.a.
14.4. Packing group:	n.a.
Marine Pollutant:	n.a
14.5. Environmental hazards:	Not applicable
Transport by air (IATA)	
14.2. UN proper shipping name:	
14.3. Transport hazard class(es):	n.a.
14.4. Packing group:	n.a.
14.5. Environmental hazards:	Not applicable
14.6. Special precautions for user	
Unless specified otherwise, general measures for safe to	ransport must be followed.

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

SECTION 15: Regulatory information

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

Observe restrictions:

Observe restrictions: Comply with national regulations/laws governing the protection of young people at work (national implementation of the Directive 94/33/EC)! Regulation (EC) No 1907/2006, Annex XVII Reaction mass of 4,4"-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate Methylenediphenyl diisocyanate, modified 4,4"-methylenediphenyl diisocyanate Comply with national regulations/laws governing maternity protection (national implementation of the Directive 9/26/EFC)1

92/85/EEC)!

Comply with trade association/occupational health regulations. Regulation (EU) No 649/2012 'concerning the export and import of hazardous chemicals' must be adhered to, as the product contains a substance that falls within the scope of this Regulation.

0 a/l

Directive 2010/75/EU (VOC):

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

SECTION 16: Other information

8

Revised sections: These details refer to the product as it is delivered.



(GB)	
Page 7 of 7	
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II	
Revision date / version: 12.05.2022 / 0011	
Replacing version dated / version: 01.11.2021 / 0010	
Valid from: 12.05.2022	
PDF print date: 16.05.2022	
COSMO® PU-100.200	
(COSMOPUR K1-1644E)	

Employee instruction/training in handling hazardous materials is required.

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

Classification in accordance with	Evaluation method used
regulation (EC) No. 1272/2008 (CLP)	
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. H375 Course data introductions of the section 2 and 3.

H315 Causes skin irritation.

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

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 approx. approximately Art Art no Article number Acute Toxicity Estimate Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and ASTM ATE Testing, Germany) BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health BAUA Buildesanstain full Albeitschlub and and Safety, Germany) BCF Bioconcentration factor BSEF The International Bromine Council head weight bw CAS body weight 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 CLP CMR DMEL DNEL DOC Derived No Effect Level Dissolved organic carbon dw dry weight e.g. for example (abbreviation of Latin 'exempli gratia'), for instance EbCx, EyCx, EbLx (x = 10, 50) Effect Concentration/Level of x % on reduction of the biomass (algae, plants) 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 ECHA EN European Norms United States Environmental Protection Agency (United States of America) EPA ErCx, $E\mu Cx$, ErLx (x = 10, 50) Effect Concentration/Level of x % on inhibition of the growth rate (algae, plants) etc. et cetera EU European Union EVAL Ethylene-vinyl alcohol copolymer

Fax.	Fax number			
gen.	general			
GHS	Globally Harmonized System of Classification and Labelling of Chemicals			
GWP	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			
IBC (Code)	International Bulk Chemical (Code)			
IMDG-code	International Maritime Code for Dangerous Goods			
incl.	including, inclusive			
IUCLID	International Uniform Chemical Information Database			
IUPAC	International Union for Pure Applied Chemistry			
LC50	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, Lo	pop 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.	not checked			
n.d.a.	no data available			
NIOSH	National Institute for Occupational Safety and Health (USA)			
NLP	No-longer-Polymer			
NOEC, NOE				
OECD	Organisation for Economic Co-operation and Development			
org.	organic			
OŠHA	Occupational Safety and Health Administration (USA)			
PBT	persistent, bioaccumulative and toxic			
PE	Polyethylene			
PNEC	Predicted No Effect Concentration			
ppm	parts per million			
PVC	Polyvinylchloride			
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No			
	concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)			
REACH-IT I				
	numerical identifier. List Numbers do not have any legal significance, rather they are purely			
	entifiers for processing a submission via REACH-IT.			
RID	Règlement concernant le transport International ferroviaire de marchandises Dangereuses (=			
	concerning the International Carriage of Dangerous Goods by Rail)			
SVHC	Substances of Very High Concern			
Tel.	Telephone			
TOC	Total organic carbon			
UN RTDG				
VOC	Volatile organic compounds			
vPvB	very persistent and very bioaccumulative			
wwt	wet weight			
	not noight			
The stateme	ents made here should describe the product with regard to the necessary safety precautions - the			
	she made note chose accorde the product with regard to the necessary safety precaditions - the			

s - thev are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.

No responsibility.

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