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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0011 Revision date / version: 9.07.2021 / 0010 Replacing version dated / version: 29.07.2021 / 0010 Valid from: 01.11.2021 PDF print date: 01.11.2021 COSMO PU-205.120

(COSMOPUR 871 Komp. B-Härter)

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

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

1.1 Product identifier

COSMO PU-205.120

(COSMOPUR 871 Komp. B-Härter)

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

Relevant identified uses of the substance or mixture:

Uses advised against:

1.3 Details of the supplier of the safety data sheet Weiss Chemie + Technik GmbH & Co. KG

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

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

1.4 Emergency telephone number

Emergency information services / official advisory body:

Telephone number of the company in case of emergencies:

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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

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

2.2 Label elements

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





Danger

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

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

protection.

P302+P352-IF ON SKIN: Wash with plenty of water / soap. P304+P340-IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313-IF exposed or concerned: Get medical advice / attention.

EUH204-Contains isocyanates. May produce an allergic reaction.

As from 24 August 2023 adequate training is required before industrial or professional use 4,4'-methylenediphenyl diisocyanate
Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl

isocyanate Methylenediphenyl diisocyanate, modified

2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0.1 %). The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0.1 %). The mixture does not contain any substance with endocrine disrupting properties (< 0.1 %).

SECTION 3: Composition/information on ingredients

3.1 Substances

n.a. 3.2 Mixtures

3.2 Mixtures	
Reaction mass of 4,4'-methylenediphenyl diisocyanate	
and o-(p-isocyanatobenzyl)phenyl isocyanate	
Registration number (REACH)	01-2119457015-45-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	905-806-4
CAS	
content %	5-<25
Classification according to Regulation (EC) 1272/2008	Acute Tox. 4, H332
(CLP), M-factors	Skin Irrit. 2, H315
	Eye Irrit. 2, H319
	Skin Sens. 1, H317
	Resp. Sens. 1, H334
	Carc. 2, H351
	STOT SE 3, H335
	STOT RE 2, H373 (respiratory system) (as
	inhalation)
Specific Concentration Limits and ATE	Skin Irrit. 2, H315: >=5 %
	Eye Irrit. 2, H319: >=5 %
	Resp. Sens. 1, H334: >=0,1 %
	STOT SE 3, H335: >=5 %
Methylenediphenyl diisocyanate, modified	
Pagistration number (PEACH)	01-2119457013-49-XXXX

Methylenediphenyl diisocyanate, modified	
Registration number (REACH)	01-2119457013-49-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	500-040-3
CAS	25686-28-6
content %	5-<25
Classification according to Regulation (EC) 1272/2008	Acute Tox. 4, H332
(CLP), M-factors	Skin Irrit. 2, H315
	Eye Irrit. 2, H319
	Skin Sens. 1, H317
	Resp. Sens. 1, H334
	Carc. 2, H351
	STOT SE 3, H335
	STOT RE 2, H373 (respiratory system) (as
	inhalation)
Specific Concentration Limits and ATE	Skin Irrit. 2, H315: >=5 %
	Eye Irrit. 2, H319: >=5 %
	Resp. Sens. 1, H334: >=0,1 %
	STOT SE 3, H335: >=5 %

4,4'-methylenediphenyl diisocyanate	
Registration number (REACH)	01-2119457014-47-XXXX
Index	615-005-00-9
EINECS, ELINCS, NLP, REACH-IT List-No.	202-966-0
CAS	101-68-8
content %	5-<15
Classification according to Regulation (EC) 1272/2008	Acute Tox. 4, H332
(CLP), M-factors	Skin Irrit. 2, H315
, "	Eye Irrit. 2, H319
	Resp. Sens. 1, H334
	Skin Sens. 1, H317
	Carc. 2, H351
	STOT SE 3, H335
	STOT RE 2, H373 (respiratory system) (as
	inhalation)
Specific Concentration Limits and ATE	Skin Irrit. 2, H315: >=5 %
	Eye Irrit. 2, H319: >=5 %
	Resp. Sens. 1, H334: >=0,1 %
	STOT SE 3, H335: >=5 %
	ATE (as inhalation, Aerosol): 1,5 mg/l/4h

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

The substances named in this section are given with their actual, appropriate classification! For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

SECTION 4: First aid measures

4.1 Description of first aid measures

First-aiders should ensure they are protected!

Never pour anything into the mouth of an unconscious person!

Inhalation

Remove person from danger area.

Supply person with fresh air and consult doctor according to symptoms. If the person is unconscious, place in a stable side position and consult a doctor. Respiratory arrest - Artificial respiration apparatus necessary.

Skin contact

Wipe off residual product carefully with a soft, dry cloth.

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor. Dab away with polyethylene glycol 400

Eye contact

Rémove contact lenses.

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

Ingestion

Rinse the mouth thoroughly with water.
Do not induce vomiting - give copious water to drink. Consult doctor immediately

4.2 Most important symptoms and effects, both acute and delayed

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

Dermatitis (skin inflammation)

Drying of the skin.

Allergic contact eczema

Discoloration of the skin

Irritant to mucosa of the nose and throat

Coughing Headaches

Effect on the central nervous system

Asthmatic symptoms



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

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

4.3 Indication of any immediate medical attention and special treatment needed

In case of irritation of the lungs, perform first-aid with controlled-dosage aeros Pulmonary oedema prophylaxis Medical supervision necessary due to possibility of delayed reaction.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Extinction powder

Unsuitable extinguishing media

5.2 Special hazards arising from the substance or mixture

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

Isocyanates

Hydrocyanic acid (hydrogen cyanide)

of bursting (explosion) when heated

5.3 Advice for firefighters

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

According to size of fire

Full protection, if necessary

Cool container at risk with water

Dispose of contaminated extinction water according to official regulations

SECTION 6: Accidental release measures

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

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

Ensure sufficient ventilation, remove sources of ignition.
Avoid dust formation with solid or powder products.
Leave the danger zone if possible, use existing emergency plans if necessary.
Ensure sufficient supply of air.

Avoid inhalation, and contact with eyes or skin. If applicable, caution - risk of slipping.

6.1.2 For emergency responders See section 8 for suitable protective e equipment and material specifications.

6.2 Environmental precautions

It leakage occurs, dam up.

Resolve leaks if this possible without risk.

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

Prevent from entering drainage system.

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

6.3 Methods and material for containment and cleaning up

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

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

Do not close packing drum.

CO2 formation in closed tanks causes pressure to rise. ous earth, sawdust) and

6.4 Reference to other sectionsFor personal protective equipment see Section 8 and for disposal instructions see Section 13.

SECTION 7: Handling and storage

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

7.1 Precautions for safe handling

7.1.1 General recommendations

Ensure good ventilation.

Avoid inhalation of the vapours.

Avoid initialization or the vapours.

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

Avoid contact with eyes or skin.

No contact with products of this type in case of allergies, asthma und chronic respiratory tract disorders.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room Observe directions on label and instructions for use.

Use working methods according to operating instructions.

7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

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

7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals. Not to be stored in gangways or stair wells.

Store product closed and only in original packing. Keep protected from direct sunlight and temperatures over 50°C. Only store at temperatures from 15°C to 25°C. Store in a dry place.

7.3 Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

(GB)	Chemical Name	Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-	Co
\sim		isocyanatobenzyl)phenyl isocyanate	%:

_,						
	WEL-TWA: 0,02 mg/m3 (Isocya all (as -NCO))	nates,	WEL-STEL: 0,07 mg/r all (as -NCO))	m3 (Isocyanates,		
	Monitoring procedures:					
	BMGV: 1 µmol isocyanate-deriv	ed diamir	ne/mol creatinine in urine	Other information	n: Sen	
	(At the end of the period of expos			(Isocyanates, all	(as -NCO))
					, ,	
	GB Chemical Name	Methylene	ediphenyl diisocyanate, mod	dified		Content %:5-<25
-	WEL-TWA: 0,02 mg/m3 (Isocya all (as -NCO))	nates,	WEL-STEL: 0,07 mg/r all (as -NCO))			
	Monitoring procedures:		ISO 16702 (Workplace air	quality - determina	tion of tota	ıl
			isocyanate groups in air us	sing 2-(1-methoxyph	nenylpipera	azine and
		-	liquid chromatography) - 2	007	,	
			MDHS 25/4 (Organic isocy	anates in air - Lab	oratory me	thod using
			sampling either onto 2-(1-i			
			fibre filters followed by sol			
		-	analysis using high perform	mance liquid chroma	atography)	- 2015
	BMGV: 1 µmol isocyanate-deriv	ed diamir		Other information		
	(At the end of the period of expos	ure)				
	GB Chemical Name	4,4'-methy	lenediphenyl diisocyanate			Content
	_					%:5-<15
	WEL-TWA: 0,02 mg/m3 (Isocya	anates,	WEL-STEL: 0,07 mg/r	m3 (Isocyanates,		
	all (as -NCO))		all (as -NCO))	Pr 1		
	Monitoring procedures:		ISO 16702 (Workplace air			
			isocyanate groups in air us		nenylpipera	azine and
		-	liquid chromatography) - 2			
			MDHS 25/4 (Organic isocy			
			sampling either onto 2-(1-			
			fibre filters followed by sol			
			analysis using high perform			
		-	EU project BC/CEN/ENTR			
		-	NIOSH 5521 (ISOCYANA		() - 1994	
		-	NIOSH 5522 (ISOCYANA			
		-	NIOSH 5525 (ISOCYANA			
		-	OSHA 18 (Diisocyanates 2			_
		-	OSHA 47 (Methylene Bisp			4
	BMGV: 1 µmol isocyanate-deriv		ne/moi creatinine in urine	Other information		
	(At the end of the period of expos	ure)		(Isocyanates, all	(as -NCO))
	Chemical Name	Silica, am	ornhous			Content
						%:
	WEL-TWA: 6 mg/m3 (total inh.	dust),	WEL-STEL:			
	2,4 mg/m3 (resp. dust)					
	Monitoring procedures:					
	BMGV:			Other information	n:	

Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate									
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 - soil		PNEC	1	mg/kg				
	Environment - sewage treatment plant		PNEC	1	mg/l				

4 4'-methylenedinhenyl diisocyanate

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 dw	
	Environment - sporadic (intermittent) release		PNEC	10	mg/l	
Consumer	Human - oral	Short term, systemic effects	DNEL	20	mg/kg bw/day	
Consumer	Human - dermal	Short term, local effects	DNEL	17,2	mg/cm 2	
Consumer	Human - dermal	Short term, systemic effects	DNEL	25	mg/kg bw/day	
Consumer	Human - inhalation	Short term, local effects	DNEL	0,05	mg/m3	
Consumer	Human - inhalation	Short term, systemic effects	DNEL	0,05	mg/m3	
Consumer	Human - inhalation	Long term, local effects	DNEL	0,02 5	mg/m3	
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	Effect on health	Descri ptor	Valu e	Unit	Note
	compartment	neatti	ptoi	•		
	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	



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

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/E), (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/E), (11) = Inhalable fraction (Directive 2004/37/E), (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 creatine in urine (Directive 2004/37/CE), | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference particl)

(Directive 2004/3//CE). | WELESTEL = WORKPIAGE EXPOSURE LIBIT - GROOM TO THE PROPERTY OF THE P

= The exposure infinite that a substitute is a substitute of all 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 140422.
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).

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

information available at pres

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Paste, liquid. (DIN ISO 2137) Beige Characteristic

There is no information available on this parameter. Melting point/freezing point:

Boiling point or initial boiling point and boiling range: Flammability: Lower explosion limit: Upper explosion limit: There is no information available on this parameter. There is no information available on this parameter. There is no information available on this parameter.

There is no information available on this parameter.

There is no information available on this parameter. Flash point: Auto-ignition temperature: Decomposition temperature: There is no information available on this parameter. There is no information available on this parameter. Mixture reacts with water

pH: Kinematic viscosity: wix.uure reacts with water.
There is no information available on this parameter.
Insoluble
Does not apply to mixtures.

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

There is no information available on this parameter. Vapour pressure:

Density and/or relative density:

1,55 g/cm3 (relative density)
There is no information available on this parameter. Relative vapour density Particle characteristics: Does not apply to liquids

9.2 Other information

Explosives: Oxidising liquids: Product is not explosive

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 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

Protect from humidity.
Polymerisation due to high heat is possible. ~ 260°C

10.5 Incompatible materials

Acids Bases Amines

Alcohols Water

10.6 Hazardous decomposition products No decomposition when used as directed

SECTION 11: Toxicological information

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

Possibly more information on health effects, see Section 2.1 (classification) COSMO PU-205.120 (COSMOPUR 871 Komp B-Härter)

Toxicity / effect	Endpo int	Value	Unit	Organis m	Test method	Notes
Acute toxicity, by oral						n.d.a.
route:						
Acute toxicity, by						n.d.a.
dermal route:						
Acute toxicity, by	ATE	>20	mg/l/			calculated
inhalation:			4h			value,
						Vapours
Skin						n.d.a.
corrosion/irritation:						
Serious eye						n.d.a.
damage/irritation:						
Respiratory or skin						n.d.a.
sensitisation:						
Germ cell						n.d.a.
mutagenicity:						
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Specific target organ						n.d.a.
toxicity - single						
exposure (STOT-SE):						
Specific target organ						n.d.a.
toxicity - repeated						
exposure (STOT-RE):						
Aspiration hazard:						n.d.a.
Symptoms:						n.d.a.

Toxicity / effect	Endpo int	Value	Unit	Organis m	Test method	Notes
Acute toxicity, by oral route:	LD50	> 10000	mg/k g	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 classification.
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosio	Irritant



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COSMO PU-205.120 (COSMOPUR 871 Komp. B-Härter) Respiratory or skin sensitisation: OECD 406 (Skin (inhalation pig Sensitisation) and skin contact) Negative Regulation (EC) 440/2008 B.13/B.14 (REVERSE Germ cell mutagenicity: Salmonel typhimuri MUTATION TEST USING BACTERIA) OECD 474 Germ cell Rat Negative (Mammalian Erythrocyte Micronucleus mutagenicity: Test) OECD 453 Carcinogenicity Rat Carc 2 (Combined Chronic Toxicity/Carcinog enicity Studies) Methylenediphenyl diisocyanate, modified
Toxicity / effect Endpo Value Unit Organis Test method int LD50 m Rat >2000 OECD 401 Acute toxicity, by oral mg/k Analogous conclusion route: (Acute Oral Toxicity)
OECD 404 Rabbit Skin Irrit, 2 corrosion/irritation: (Acute Dermal Irritation/Corrosio n) OECD 405 Serious eye damage/irritation: Rahhit Eve Irrit, 2 (Acute Eye Irritation/Corrosio Mouse Respiratory or skin sensitisation:
Respiratory or skin sensitisation:
Germ cell (inhalation)
Yes (skin contact)
Negative Guinea OECD 406 (Skin Sensitisation)
Regulation (EC)
440/2008
B.13/B.14 pig Salmonel mutagenicity: la typhimuri (REVERSE MUTATION TEST USING BACTERIA) OECD 474 Rat Germ cell Negative mutagenicity: (Mammalian Erythrocyte Micronucleus Test) OECD 453 NOEC Specific target organ 0,2 mg/m Rat toxicity - repeated exposure (STOT-RE), inhalat.: (Combined Chronic Toxicity/Carcinog enicity Studies) 4,4'-methylenediphenyl diisocyanate

Toxicity / effect Endpo Value Unit Organis Test method Notes int LD50 m Rat Regulation (EC) 440/2008 B.1 (ACUTE ORAL Analogous conclusion Acute toxicity, by ora >2000 mg/l TOXICITY) OECD 402 Acute toxicity, by dermal route: LD50 >9400 mg/k Rahhit Analogous conclusion (Acute Dermal Toxicity) OECD 403 LC50 0,368 mg/l/ 4h Rat Acute toxicity, by Aerosol, (Acute Inhalation Toxicity) inhalation: Does not conform with EU classification n. Aerosol, ATE Acute toxicity, by 1,5 mg/l Expert inhalation: judgement. Skin Irrit. Skin Rabbit OECD 404 corrosion/irritation: (Acute Dermal Irritation/Corrosio 2, Analogous conclusion Yes Guinea Respiratory or skin sensitisation:
Respiratory or skin sensitisation: (inhalation) Skin Sens. pig Mouse OECD 429 (Skin Sensitisation Local Lymph

Node Assay) OECD 471

(Mammalian Erythrocyte Micronucleus Test) OECD 489 (In

Vivo Mammalian Alkaline Comet

(Combined Chronic Toxicity/Carcinog

enicity Studies)

Assay) OECD 453

(Bacterial Reverse Mutation Test) OECD 474 Negative. Analogous conclusion

Negativem

Negativem

Aerosol

Analogous conclusion, Carc. 2

Salmonel

typhimuri um Rat

la

Rat

Rat

Germ cell

Germ cell

Germ cell

mutagenicity:

Carcinogenicity

mutagenicity:

mutagenicity:

Reproductive toxicity:	NOAE L	4-12	mg/m 3	Rat	OECD 414 (Prenatal Developmental Toxicity Study)	Aerosol, Analogous conclusion		
Specific target organ toxicity - single exposure (STOT-SE), inhalative:						May cause respiratory irritation.		
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	LOAE L	1	mg/m 3	Rat	OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies)	Aerosol, Analogous conclusion, Target organ(s): respiratory system		
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAE L	0,2	mg/m 3	Rat	OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies)	Aerosol, Analogous conclusion, Target organ(s): respiratory system		
Silica, amorphous								
Toxicity / effect	Endpo int	Value	Unit	Organis m	Test method	Notes		
Acute toxicity, by oral route:	LD50	>5000	mg/k g	Rat	OECD 423 (Acute Oral Toxicity - Acute Toxic Class Method)			

	int			m		
Acute toxicity, by oral	LD50	>5000	mg/k	Rat	OECD 423	
route:			g		(Acute Oral	
					Toxicity - Acute	
					Toxic Class	
					Method)	
Acute toxicity, by	LD50	> 2000	mg/k	Rat	OECD 402	
dermal route:			g		(Acute Dermal	
					Toxicity)	
Skin				Rabbit	OECD 404	Not irritant
corrosion/irritation:					(Acute Dermal	
					Irritation/Corrosio	
					n)	
Serious eye				Rabbit	OECD 405	Not irritant
damage/irritation:					(Acute Eye	
					Irritation/Corrosio	
					n)	
Germ cell					OECD 471	Negative
mutagenicity:					(Bacterial	
					Reverse	
					Mutation Test)	
Aspiration hazard:						No
44.0.1.6						
11.2. Information	on otner	nazards				
COSMO PU-205.120						

(COSMOPUR 871 Komp. B-Härter)						
Toxicity / effect	Endpo	Value	Unit	Organis m	Test method	Notes
Endocrine disrupting properties:						Does not apply to mixtures.
Other information:						No other relevant information available on adverse effects on health.

SECTION 12: Ecological information

Possibly more information on environmental effects, see Section 2.1 (classification). COSMO PU-205.120

(COSMOPUR 871 Komp. B-Härter)							
Toxicity / effect	Endpoin t	Tim e	Valu e	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	-						n.d.a.
12.1. Toxicity to daphnia:							n.d.a.
12.1. Toxicity to algae:							n.d.a.
12.2. Persistence and degradability:							With water at the interface, transforms slowly with formation of CO2 into a firm, insoluble reaction product with a high melting point (polycarba mide). According to experience available to date, polycarbamide is inert and non-degradable . n.d.a.
potential: 12.4. Mobility in							n.d.a.
soil: 12.5. Results of PBT and vPvB assessment							n.d.a.
12.6. Endocrine disrupting properties:							Does not apply to mixtures.



B) Page 5 of 7								Other		Ι	Ι				According
Rafety data sheet a Revision date / vers Replacing version of Valid from: 01.11.2 PDF print date: 01. COSMO PU-205.12 (COSMOPUR 871	sion: 01.11.20 dated / version 021 11.2021 20	21 /001 ⁻ n: 29.07.2	1` ′		5, Annex II			information:							to experience available to date, polycarbarr ide is inert and non-degradable
12.7. Other	1	I		I	I		No								., With water at
adverse effects:							information available on other adverse effects on the environmen t.								the interface, transforms slowly with formation of CO2 into a firm, insoluble
Other information:							DOC- elimination degree(co mplexing organic substance) >= 80%/28d:	12.4. Mobility in	Н		0,02	Pa*m			reaction product with a high melting point (polycarba mide).
							No	soil: 12.1. Toxicity to	(Henry) LC50	96h	29 >10	3/mol mg/l	Brachydanio	OECD 203	Analogous
Reaction mass of Toxicity / effect	Endpoin	Tim	Valu	yanate an Unit	d o-(p-isocyanat Organism	Test	Notes Notes	fish:			00		rerio	(Fish, Acute Toxicity	conclusion
12.2. Persistence and degradability:	t	e 28d	e 0	%	activated sludge	method OECD 302 C (Inherent Biodegradab ility - Modified MITI Test (II))		12.2. Persistence and degradability:		28d	0	%		Test) OECD 302 C (Inherent Biodegradab ility - Modified MITI Test (II))	Not biodegrada ble, With water at the interface, transforms
12.3. Bioaccumulative potential:	BCF		200				Not to be expected								slowly with formation of CO2
12.1. Toxicity to fish:	LC50	96h	> 100 0	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity Test)									into a firm, insoluble reaction product
12.1. Toxicity to daphnia:	NOEC/N OEL	21d	>10	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproductio n Test)									with a high melting point (polycarba mide).,
12.1. Toxicity to daphnia:	EC50	24h	> 100 0	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisati									According to experience available to date,
Toxicity to bacteria:	EC50	3h	>10 0	mg/l	activated sludge	on Test) OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and									polycarbam ide is inert and non- degradable ., Analogous conclusion
Methylenedipheny	-! diisocyana	ta modif	ind.			Ammonium Oxidation))		12.1. Toxicity to daphnia:	EC50	24h	>10 00	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisati	Analogous conclusion
Toxicity / effect	Endpoin	Tim e	Valu e	Unit	Organism	Test	Notes	12.1. Toxicity to	NOEC/N	21d	>10	mg/l	Daphnia	on Test) OECD 202	Analogous
12.2. Persistence and degradability:		28d	0	%	activated sludge	method OECD 302 C (Inherent Biodegradab ility - Modified		daphnia:	OEL Log Pow	210	5,22	mg/i	magna	(Daphnia sp. Acute Immobilisati on Test)	conclusion A notable
						MITI Test (II))		Bioaccumulative potential:							biological accumulati
12.3. Bioaccumulative potential:	BCF	96h	>10	mg/l	Brachydanio	OECD 305 (Bioconcentr ation - Flow- Through Fish Test) OECD 203	Not to be expected								on potential has to be expected (LogPow > 3).
fish:	NOEC/N	21d	00 >=1	mg/l	rerio Daphnia	(Fish, Acute Toxicity Test) OECD 211		12.1. Toxicity to algae:	ErC50	72h	>16 40	mg/l	Desmodesm us subspicatus	OECD 201 (Alga, Growth Inhibition	Analogous conclusion
daphnia:	OEL		0		magna	(Daphnia magna Reproductio n Test)		12.3. Bioaccumulative potential:	BCF	28d	200		Cyprinus caprio	Test) IUCLID Chem. Data Sheet	Not to be expected
Toxicity to bacteria:	EC50	3h	>10 0	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration		12.5. Results of PBT and vPvB assessment						(ESIS)	No PBT substance, No vPvB
						Inhibition Test (Carbon and		Other information:	AOX						Does not contain any
						Ammonium Oxidation))									organically bound halogens
4,4'-methylenedip Toxicity / effect	henyl diisocy Endpoin t	ranate Tim e	Valu e	Unit	Organism	Test method	Notes								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



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(COSMOPUR 871 Komp. B-Härter)

Other organisms:	NOEC/N	14d	>10	mg/k	Lactuca	OECD 208	Analogous
	OEL		00	g	sativa	(Terrestrial	conclusion
				-		Plants,	
						Growth	
						Test)	
Other organisms:	NOEC/N	14d	>10	mg/k	Avena sativa	OECD 208	Analogous
	OEL		00	g		(Terrestrial	conclusion
						Plants,	
						Growth	
						Test)	
Toxicity to	NOEC/N	14d	>	mg/k	Lumbricus	OECD 207	Analogous
annelids:	OEL		100	g	terrestris	(Earthworm,	conclusion
			0	-		Acute	
						Toxicity	
						Tests)	
Toxicity to	EC50	14d	>10	mg/k	Eisenia	OECD 207	Analogous
annelids:			00	g	foetida	(Earthworm,	conclusion
				-		Acute	
						Toxicity	
						Tests)	

Toxicity / effect	Endpoin	Tim	Valu	Unit	Organism	Test	Notes
	t	е	е			method	
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

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 isocvanates Recommendation:

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

Hardened product:

E.g. dispose at suitable refuse site

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

Empty container completely.

Uncontaminated packaging can be recycled.

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

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

SECTION 14: Transport information

n.a.

General statements 14.1. UN number or ID number

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:
Classification code:
LQ:
14.5. Environmental hazards: n.a. n.a. 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:
Marine Pollutant:
14.5. Environmental hazards n.a. n.a Not applicable

Transport by air (IATA)

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

14.4. Packing group: 14.5. Environmental hazards: Not applicable

14.6. Special precautions for user

Unless specified otherwise, general measures for safe transport must be followed.

14.7. Maritime transport in bulk according to IMO instruments

Non-dangerous material according to Transport Regulatio

SECTION 15: Regulatory information

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

Observe restrictions:

Coserive 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 92/85/EEC)!
Comply with trade association/occupational health regulations

Directive 2010/75/EU (VOC): 0.39 %

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

SECTION 16: Other information

Revised sections: 1-16

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

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

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

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

H317 May cause an allergic skin reaction.

H317 May cause an ailergic 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.

Eve Irrit. - Eve irritation

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

Skill Series. — Skill Schrift State Skill Series. — 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).

(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. to according, according to

Accord européen relatif au transport international des marchandises Dangereuses par Route (= pean Agreement concerning the International Carriage of Dangerous Goods by Road)

European AOX Adsorbable organic halogen compounds

approx. approximately Art., Art. no.Article number

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

ASTM ATE BAM

BAuA

Testing, Germany)
BAUA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health

and Safety, Germany)
BCF Bioconcentration factor BCF

BSEF The International Bromine Council

body weight Chemical Abstracts Service bw CAS

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



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EC European Community EC European Community
ECHA European Chemicals Agency
ECX, ELX (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect
EEC European Economic Community
EINECS ELINCS EUropean List of Notified Chemical Substances
EN European List of Notified Chemical Substances
EN European Norms
EPA United States Environmental Protection Agency (United States of America)
ErCx, EμCx, ErLx (x = 10, 50) Effect Concentration/Level of x % on inhibition of the growth rate (alpae plants) (algae, plants) etc. et cetera etc. EU EVAL European Union Ethylene-vinyl alcohol copolymer Fax. Fax number Fax number general Globally Harmonized System of Classification and Labelling of Chemicals Globally Harmonized System of Classification and Labelling of Chemicals Global warming potential Adsorption coefficient of organic carbon in the soil octanol-water partition coefficient International Agency for Research on Cancer International Air Transport Association International Bulk Chemical (Code) gen. GHS GWP Koc Kow IARC IATA IBC (Code) International Bulk Chemical (Code) International Bulk Chemical (Code) International Bulk Chemical (Code) International Maritime Code for Dangerous Goods incl. including, inclusive International Uniform Chemical Information Database **IUPAC** International Union for Pure Applied Chemistry Lethal Concentration to 50 % of a test population LC50 Lotso Lethal Dose to 50% of a test population (Median Lethal Dose)
Log Koc Logarithm of adsorption coefficient of organic carbon in the soil
Log Kow, Log Pow Logarithm of octanol-water partition coefficient
LQ Limited Quantities MARPOL International Convention for the Prevention of Marine Pollution from Ships n.a. n.av. n.c. n.d.a. NIOSH not applicable not available not checked no data available National Institute for Occupational Safety and Health (USA) No-longer-Polymer NOEC, NOEL No Observed Effect Concentration/Level OECD Organisation for Economic Co-operation and Development organic
Occupational Safety and Health Administration (USA) org. OSHA persistent, bioaccumulative and toxic Polyethylene Predicted No Effect Concentration PBT PE PNEC parts per million Polyvinylchloride ppm PVC REACH FYC POLYMINICATIONICE
REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals) REACH-IT List-No. 9xx-xxxx No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.

RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)

SVHC Substances of Very High Concern Tel. TOC Telephone To Total organic carbon
UN RTDG
United Nations Recommendations on the Transport of Dangerous Goods
VOC
VPVB
VPVB
Very persistent and very bioaccumulative wet weight The statements made here should describe the product with regard to the necessary safety precautions - they on the meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge. No responsibility. These statements were made by:
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