

GB) Page 1 of 7

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0009 Revision date / version: 27.07.2021 / 0008 Replacing version dated / version: 27.07.2021 / 0008 Valid from: 01.11.2021 PDF print date: 01.11.2021 COSMO PU-180.150

(COSMOPUR 1522)

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-180.150

(COSMOPUR 1522)

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)

mazaro ciass	nazaro 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

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 %
Specific Concentration Limits and ATE	
	Eye Irrit. 2, H319: >=5 %
	Resp. Sens. 1, H334: >=0,1 %
	STOT SE 3, H335; >=5 %

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-<25
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



GB Page 2 of 7

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0009

Revision date / version: 27.07.2021 / 0008 Replacing version dated / version: 27.07.2021 / 0008 Valid from: 01.11.2021 PDF print date: 01.11.2021 COSMO PU-180.150

(COSMOPUR 1522)

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 aero 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

Water jet spray

Unsuitable extinguishing media

5.2 Special hazards arising from the substance or mixture

In case of fire the following can de 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

®	Chemical Name

WEL-TWA: 0,02 mg/m3 (Israll (as -NCO)) Monitoring procedures:	ocyanates,	WEL-STEL: 0,07 mg/r all (as -NCO))	n3 (Isocyanates,	
BMGV: 1 µmol isocyanate-o (At the end of the period of ex		ne/mol creatinine in urine	Other information (Isocyanates, all	
©B Chemical Name	,	ediphenyl diisocyanate, moo		Content %:5-<25
WEL-TWA: 0,02 mg/m3 (Israll (as -NCO))	ocyanates,	WEL-STEL: 0,07 mg/r all (as -NCO))		
Monitoring procedures:	-	ISO 16702 (Workplace air isocyanate groups in air is liquid chromatography) - 2 MDHS 25/4 (Organic isocy sampling either onto 2-(1-fibre filters followed by solvanalysis using high performance of the solution of the soluti	sing 2-(1-methoxypl 007 ranates in air – Lab nethoxyphenylpipe rent desorption or in nance liquid chrom	nenylpiperazine and oratory method using razine coated glass nto impingers and atography) - 2015
BMGV: 1 µmol isocyanate-o (At the end of the period of ex		ne/mol creatinine in urine	Other information	n:
©B Chemical Name	4,4'-meth	ylenediphenyl diisocyanate		Content %:5-<25
WEL-TWA: 0,02 mg/m3 (Isr all (as -NCO))	ocyanates,	WEL-STEL: 0,07 mg/r all (as -NCO))		
Monitoring procedures:	-	ISO 16702 (Workplace air isocyanate groups in air us liquid chromatography) - 2	sing 2-(1-methoxypl	
	- - - - - -	MDHS 25/4 (Organic isocy sampling either onto 2-(1- fibre filters followed by solvanalysis using high perform EU project BC/CEN/ENTR NIOSH 5521 (ISOCYANA- NIOSH 5522 (ISOCYANA- NIOSH 5525 (ISOCYANA- OSHA 18 (Diisocyanates 2 OSHA 47 (Methylene Bisp	vanates in air – Lab methoxyphenylpipe vent desorption or in nance liquid chrom /000/2002-16 card FES, MONOMERIO FES) - 1998 FES, TOTAL (MAP) 2,4-TDI and MDI) - thenyl Isocyanate (N	razine coated glass anto impingers and atography) - 2015 - 7-4 (2004) c) - 1994 ()) - 2003 ()01)) - 1980 ()01)) - 1984
BMGV: 1 µmol isocyanate-(At the end of the period of ex		MDHS 25/4 (Organic isocy sampling either onto 2-(1- fibre filters followed by solvanalysis using high perform EU project BC/CEN/ENTR NIOSH 5521 (ISOCYANA- NIOSH 5522 (ISOCYANA- NIOSH 5525 (ISOCYANA- OSHA 18 (Diisocyanates 2 OSHA 47 (Methylene Bisp	vanates in air – Lab- nethoxyphenylpipe, vent desorption or in nance liquid chrom. /000/2002-16 card FES, MONOMERIC FES) - 1998 FES, TOTAL (MAP) 2,4-TDI and MDI) -	razine coated glass to impingers and attography) - 2015 - 7-4 (2004) - 1994 - 1994 - 1995 - 1988 - 1980 - 1980 - 1981 - 1984 - 1995 - 1984 - 1995 - 1985 - 1986 - 1

Reaction mass of 4,4	'-methylenediphenyl dii	socyanate and o-(p	-isocyanato	benzyl)p	henyl isoc	yanate
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		PNEC	1	mg/l	

Other information

Content

Silica, amorphous

(GB) Chemical Name

Monitoring procedures
BMGV: ---

WEL-TWA: 6 mg/m3 (total inh. dust), 2,4 mg/m3 (resp. dust)

Area of application	Exposure route / Environmental compartment	Effect on health	Descri ptor	Valu e	Unit	Note
	Environment - freshwater		PNEC	1	mg/l	
	Environment -		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/dav	
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	

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted ago version of volkplace 2-posted Elimit - Long-reimit exposure limit (orlicul - why at an ine 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

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



Page 3 of 7

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0009

Revision date / version: 27.07.2021 / 0008 Replacing version dated / version: 27.07.2021 / 0008 Valid from: 01.11.2021 PDF print date: 01.11.2021 COSMO PU-180.150

(COSMOPUR 1522)

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

(13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).

8.2 Exposure controls

8.2.1 Appropriate engineering controls

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

should be worn.

should be worn.

Applies only if maximum permissible exposure values are listed here.

Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.

These are specified by e.g. EN 14042.

EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of

exposure to chemical and biological agents"

8.2.2 Individual protection measures, such as personal protective equipment

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:

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

The recommended maximum wearing time is 50% of breakthrough time

Protective hand cream recommended

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

Respiratory protection

Normally not necessary

If OES or MEL is exceeded.

Filter A2 P2 (EN 14387), code colour brown, white

Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:

Not applicable

Additional information on hand protection - No tests have been performed. In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.

Selection of materials derived from glove manufacturer's indications

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.

Selection of a suitable glove depends not only on the material but also on other quality characteristic.

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

No information available at pre-

SECTION 9: Physical and chemical properties

There is no information available on this parameter There is no information available on this parameter. There is no information available on this parameter. Combustible.

There is no information available on this parameter.

There is no information available on this parameter.

There is no information available on this parameter. There is no information available on this parameter. There is no information available on this parameter. There is no information available on this parameter. —37000 mPas (25°C, Dynamic viscosity)

There is no information available on this parameter.

9.1 Information on basic physical and chemical properties Physical state:

Colour: Transparent Odour: Characteristic

Melting point/freezing point:
Boiling point or initial boiling point and boiling range:
Flammability:
Lower explosion limit:

Upper explosion limit:

Flash point:

Auto-ignition temperature: Decomposition temperature:

Kinematic viscosity:

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

Does not apply to mixtures.
There is no information available on this parameter.
1,12 g/cm3
There is no information available on this parameter. Vapour pressure:
Density and/or relative density:
Relative vapour density:
Particle characteristics: Does not apply to liquids

9.2 Other information

Product is not explosive.

Oxidising liquids:

Bulk density n.a

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

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 > 200°C

10.5 Incompatible materials

See also section 7. Acids Bases

Amines

Alcohols Water

10.6 Hazardous decomposition products

Aspiration hazard: Symptoms:

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-180.150						
(COSMOPUR 1522)						
Toxicity / effect	Endpo	Value	Unit	Organis	Test method	Notes
	int			m		
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):						
Asniration hazard:					l	nda

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 n)	Irritant
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Yes (inhalation and skin contact)
Germ cell mutagenicity:				Salmonel la typhimuri um	Regulation (EC) 440/2008 B.13/B.14 (REVERSE MUTATION TEST USING BACTERIA)	Negative
Germ cell mutagenicity:				Rat	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative
Carcinogenicity:				Rat	OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies)	Carc. 2

Toxicity / effect	Endpo	Value	Unit	Organis	Test method	Notes
•	int			m		
Acute toxicity, by oral	LD50	>2000	mg/k	Rat	OECD 401	Analogous
route:			g		(Acute Oral	conclusion
					Toxicity)	
Skin				Rabbit	OECD 404	Skin Irrit. 2
corrosion/irritation:					(Acute Dermal	
					Irritation/Corrosio	
					n)	
Serious eye				Rabbit	OECD 405	Eye Irrit. 2
damage/irritation:					(Acute Eye	
					Irritation/Corrosio	
					n)	
Respiratory or skin				Mouse		Yes
sensitisation:						(inhalation)
Respiratory or skin				Guinea	OECD 406 (Skin	Yes (skin
sensitisation:				piq	Sensitisation)	contact)



Page 4 of 7
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision date / version: 01.11.2021 / 0009
Replacing version dated / version: 27.07.2021 / 0008
Valid from: 01.11.2021
PDF print date: 01.11.2021
COSMO PU-180.150

(COSMOPUR 1522)

Germ cell				Salmonel	Regulation (EC)	Negative
mutagenicity:				la	440/2008	
				typhimuri	B.13/B.14	
				um	(REVERSE	
					MUTATION	
					TEST USING	
					BACTERIA)	
Germ cell				Rat	OECD 474	Negative
mutagenicity:					(Mammalian	
					Erythrocyte	
					Micronucleus	
					Test)	
Specific target organ	NOEC	0,2	mg/m	Rat	OECD 453	
toxicity - repeated			3		(Combined	
exposure (STOT-RE),					Chronic	
inhalat.:					Toxicity/Carcinog	
			I		enicity Studies)	

4,4'-methylenedipheny						
Toxicity / effect	Endpo int	Value	Unit	Organis m	Test method	Notes
Acute toxicity, by oral route:	LD50	>2000	mg/k g	Rat	Regulation (EC) 440/2008 B.1 (ACUTE ORAL TOXICITY)	Analogous conclusion
Acute toxicity, by dermal route:	LD50	>9400	mg/k g	Rabbit	OECD 402 (Acute Dermal Toxicity)	Analogous conclusion
Acute toxicity, by inhalation:	LC50	0,368	mg/l/ 4h	Rat	OECD 403 (Acute Inhalation Toxicity)	Aerosol, Does not conform with EU classification.
Acute toxicity, by inhalation:	ATE	1,5	mg/l/ 4h			Aerosol, Expert judgement.
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosio n)	Skin Irrit. 2, Analogous conclusion
Respiratory or skin sensitisation:				Guinea pig		Yes (inhalation)
Respiratory or skin sensitisation:				Mouse	OECD 429 (Skin Sensitisation - Local Lymph Node Assay)	Skin Sens. 1
Germ cell mutagenicity:				Salmonel la typhimuri um	OECD 471 (Bacterial Reverse Mutation Test)	Negative, Analogous conclusion
Germ cell mutagenicity:				Rat	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negativem ale
Germ cell mutagenicity:				Rat	OEĆD 489 (In Vivo Mammalian Alkaline Comet Assay)	Negativem ale
Carcinogenicity:				Rat	OECD 453 (Combined Chronic Toxicity/Carcinog enicity Studies)	Aerosol, Analogous conclusion Carc. 2
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)	
Acute toxicity, by dermal route:	LD50	> 2000	mg/k g	Rat	OECD 402 (Acute Dermal Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosio n)	Not irritant
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosio n)	Not irritant

Germ cell			OECD 471	Negative
mutagenicity:			(Bacterial	_
,			Reverse	
			Mutation Test)	
Appiration hazard:			•	No

11.2. Information on other hazards

COSMO PU-180.150 (COSMOPUR 1522)							
Toxicity / effect	Endpo int	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-180.150

Toxicity / effect	Endpoin	Tim	Valu	Unit	Organism	Test	Notes
	t	е	е			method	
12.1. Toxicity to							n.d.a.
fish: 12.1. Toxicity to							n.d.a.
daphnia:							n.d.a.
12.1. Toxicity to							n.d.a.
algae:							11.0.0.
12.2.							With water
Persistence and							at the
degradability:							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,
							polycarban
							ide is inert
							and non-
							degradable
12.3.							n.d.a.
Bioaccumulative							
potential:							
12.4. Mobility in							n.d.a.
soil:							
12.5. Results of							n.d.a.
PBT and vPvB							1

n.d.a. n.d.a.

Toxicity / effect	Endpoin	Tim	Valu	Unit	Organism	Test	Notes
•	t .	e	е			method	
12.2. Persistence and degradability:		28d	0	%	activated sludge	OECD 302 C (Inherent Biodegradab ility - Modified MITI Test (II))	
12.3. Bioaccumulative potential:	BCF		200				Not to be expected
12.1. Toxicity to fish:	LC50	96h	> 100 0	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	NOEC/N OEL	21d	>10	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproductio n Test)	
12.1. Toxicity to daphnia:	EC50	24h	> 100 0	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisati on Test)	
Toxicity to bacteria:	EC50	3h	>10 0	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	

Methylenediphenyl diisocyanate, modified

assessment
12.6. Endocrine
disrupting
properties:
12.7. Other

adverse effects



GB)
Page 5 of 7
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision date / version: 01.11.2021 / 0009
Replacing version dated / version: 27.07.2021 / 0008
Valid from: 01.11.2021
PDF print date: 01.11.2021
COSMO PU-180.150

(COSMOPI	IR	1522)	

Toxicity / effect	Endpoin	Tim	Valu	Unit	Organism	Test	Notes
TOXIONY / CITCOL	t	e	e	0	Organism	method	110103
12.2.	•	28d	0	%	activated	OECD 302	
Persistence and					sludge	C (Inherent	
degradability:					_	Biodegradab	
						ility -	
						Modified	
						MITI Test	
						(II))	
12.3.	BCF		200			OECD 305	Not to be
Bioaccumulative						(Bioconcentr	expected
potential:						ation - Flow- Through	
						Fish Test)	
12.1. Toxicity to	LC50	96h	>10	mg/l	Brachydanio	OECD 203	
fish:	1000	3011	00	1119/1	rerio	(Fish, Acute	
			""		10110	Toxicity	
						Test)	
12.1. Toxicity to	NOEC/N	21d	>=1	mg/l	Daphnia	OECD 211	
daphnia:	OEL		0	_	magna	(Daphnia	
						magna	
						Reproductio	
						n Test)	
Toxicity to	EC50	3h	>10	mg/l	activated	OECD 209	
bacteria:			0		sludge	(Activated	
						Sludge, Respiration	
						Inhibition	
						Test	
						(Carbon	
						and	
						Ammonium	
						Oxidation))	

4,4'-methylenedip Toxicity / effect	Endpoin	Tim	Valu	Unit	Organism	Test	Notes
Other	t	е	е			method	A U
Other information:							According to
mormation:							experience
							available
							to date,
							polycarban
							ide is inert
							and non-
							degradable
							., With
							water at
							the
							interface,
							transforms slowly with
							formation
							of CO2
							into a firm,
							insoluble
							reaction
							product
							with a high
							melting
							point
							(polycarba
12.4. Mobility in	Н		0,02	Pa*m			mide).
soil:	(Henry)		29	3/mol			
12.1. Toxicity to	LC50	96h	>10	mg/l	Brachydanio	OECD 203	Analogous
fish:			00		rerio	(Fish, Acute	conclusion
						Toxicity Test)	
12.2.		28d	0	%		OECD 302	Not
Persistence and		200	"	76		C (Inherent	biodegrada
degradability:						Biodegradab	ble, With
9,.						ility -	water at
						Modified	the
						MITI Test	interface,
						(II))	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,
							polycarbai
							ide is inert
							and non-
							degradable
							., Analogous
							conclusion
12.1. Toxicity to	EC50	24h	>10	mg/l	Daphnia	OECD 202	Analogous
denhaie.			00	_			aanalust'
daphnia:			00	_	magna	(Daphnia	conclusion
daphnia:			00	_	magna	(Daphnia sp. Acute Immobilisati	conclusion

12.1. Toxicity to daphnia:	NOEC/N OEL	21d	>10	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisati on Test)	Analogous conclusion
12.3. Bioaccumulative potential:	Log Pow		5,22				A notable biological accumulati on potential has to be expected (LogPow > 3).
12.1. Toxicity to algae:	ErC50	72h	>16 40	mg/l	Desmodesm us subspicatus	OECD 201 (Alga, Growth Inhibition Test)	Analogous conclusion
12.3. Bioaccumulative potential:	BCF	28d	200		Cyprinus caprio	IUCLID Chem. Data Sheet (ESIS)	Not to be expected
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
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							

Silica, amorphous Toxicity / effect	Endpoin	Tim	Valu	Unit	Organism	Test	Notes
TOXICITY / ETIECT	t	е	e	Oilit	Organism	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	OEĆD 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 wate 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

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. (2014/95/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:



Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 01.11.2021 / 0009

Revision date / version: 27.07.2021 / 0008 Replacing version dated / version: 27.07.2021 / 0008 Valid from: 01.11.2021 PDF print date: 01.11.2021 COSMO PU-180.150

(COSMOPUR 1522)

E.g. dispose at suitable refuse site.
For contaminated packing material

Pay attention to local and national official regulations

Empty container completely.

Uncontaminated packaging can be recycled.

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

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

SECTION 14: Transport information

General statements

14.1. UN number or ID number n.a.

Transport by road/by rail (ADR/RID) 14.2. UN proper shipping name

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

14.6. Special precautions for user

rwise, general measures for safe transc

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

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 92/85/EEC)

Comply with trade association/occupational health regulations.

Directive 2010/75/EU (VOC):

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections:

These details refer to the product as it is delivered.

Employee instruction/training in handling hazardous materials is required.

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

Evaluation method used
Classification according to calculation
procedure.
Classification according to calculation
procedure.
Classification according to calculation
procedure.
Classification according to calculation
procedure.
Classification according to calculation
procedure.
Classification according to calculation
procedure.
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.

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)

(EURIA):
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).

Cultimary).

EU Occupation Exposure Limits Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164, (EU) 2019/1831, each as amended.

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

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

Any abbreviations and acronyms used in this document:

acc., acc. to according, according to
ADR Accord européen 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 rox. approximately Art. no.Article number

ASTM ASTM International (American Society for Testing and Materials)

ATE BAM Acute Toxicity Estimate
Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and

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

BAUM Burinesaristal for Arbeitsscriutz of and Safety, Germany)
BCF Bioconcentration factor
BSEF The International Bromine Council BCF BSEF

body weight Chemical Abstracts Service bw CAS

CLP

Chemical Abstracts Service
Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, id packaging of substances and mixtures)
carcinogenic, mutagenic, reproductive toxic
Derived Minimum Effect Level
Derived No Effect Level labelling a CMR DMEL

DNEL DOC Dissolved organic carbon

dw dy 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) European Community

ECHA

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

ELINCS

ΕN European Norms

United States Environmental Protection Agency (United States of America), ErLx (x = 10, 50) Effect Concentration/Level of x % 0 on inhibition of the growth rate FPA

ErCx, EµCx, ErLx (x = 10, 50) (algae, plants) etc. et cetera ΕU European Union

Ethylene-vinyl alcohol copolymer EVAL

Fax number

Fax. gen. GHS GWP

general Globally Harmonized System of Classification and Labelling of Chemicals Global warming potential Adsorption coefficient of organic carbon in the soil Koc

Adsorption Coefficient or organic carbon in the soil octanol-water partition coefficient IARC International Agency for Research on Cancer IATA International Air Transport Association IBC (Code) International Bulk Chemical (Code) International Maritime Code for Dangerous Goods International International International Maritime Code for Dangerous Goods incl. IUCLID including, inclusive International Uniform Chemical Information Database

IUPAC LC50 LD50

International Unitorm Chemical Information Database
International Union for Pure Applied Chemistry
Lethal Concentration to 50 % of a test population
Lethal Dose to 50% of a test population (Median Lethal Dose)
Logarithm of adsorption coefficient of organic carbon in the soil
og Pow Logarithm of octanol-water partition coefficient
Limited Quantities Log Kod Log Kow, L LQ

MARPOL International Convention for the Prevention of Marine Pollution from Ships

not applicable not available not checked n.a. n.av. n.c. n.d.a no data available

NIOSH National Institute for Occupational Safety and Health (USA) NI P

No-longer-Polymer

No Observed Effect Concentration/Level
Organisation for Economic Co-operation and Development NOEC, NO OECD organic Occupational Safety and Health Administration (USA) org. OSHA

persistent, bioaccumulative and toxic Polyethylene Predicted No Effect Concentration PBT

PNEC

ppm PVC parts per million Polyvinylchloride

PVC Polyvinylchloride
REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No
1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)
REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS
No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely
technical identifiers for processing a submission via REACH-IT.
RID Regiement concernant le transport International ferroviaire de marchandises Dangereuses (=
Regulation concerning the International Carriage of Dangerous Goods by Rail)
SVHC Substances of Very High Concern
Tel. Telephone
Total organic carbon
UN RTDG United Nations Recommendations on the Transport of Dangerous Goods
VOC Volatile organic compounds

Volatile organic compounds very persistent and very bioaccumulative wet weight VOC vPvR

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



(GB) Page 7 of 7	
Safety data sheet according to Regulation (EC) No 1907/2006, Annex Revision date / version: 01.11.2021 / 0009	II
Replacing version dated / version: 27.07.2021 / 0008	
Valid from: 01.11.2021 PDF print date: 01.11.2021	
COSMO PU-180.150	
(COSMOPUR 1522)	

not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge. No responsibility.
These statements were made by:
Chemical Check GmbH, Chemical Check Platz 1-7, D-32839 Steinheim, Tel.: +49
5233 94 17 0, Fax: +49 5233 94 17 90

© by Chemical Check GmbH Gefahrstoffberatung. The copying or changing of this document is forbidden except with consent of the Chemical Check GmbH Gefahrstoffberatung.