

Safety Data Sheet

Version 01.01.01 Updated 23.12.24

Section 1: Identification of the mixture and of the company

Product identifier:

Product name:

OBEX CORTEX 1-Part Adhesive

Details of the Supplier of the Safety Data Sheet:

Supplier: Obex Protection Ltd

Unit 5,

St Modwen Park, Norton Road, Broomhall, Worcester, WR5 2QR

Tel (including for emergencies): 01905 337800

(Mon-Fri 7am-5pm) Fax: 01905 337186 Email: sales@obexuk.com

Section 2: Hazards identification

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).

Label elements:

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

Hazard pictograms





Warning

Signal word

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.

EUH211-Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

As from 24 August 2023 adequate training is required before industrial or professional use.

4,4'-methylenediphenyl diisocyanate

2,2'-methylenediphenyl diisocyanate

o-(p-isocyanatobenzyl)phenyl isocyanate Diphenylmethanediisocyanate, isomeres and

homologues





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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

Substances: n.a. Mixtures:

Propylene carbonate

Registration number (REACH)

01-2119537232-48-XXXX

Index

607-194-00-1

EINECS, ELINCS, NLP, REACH-IT List-No.

203-572-1

CAS

108-32-7

content %

1-<10

Classification according to Regulation (EC) 1272/2008 (CLP), M-factors

Eye Irrit. 2, H319

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 %

1-<10

Classification according to Regulation (EC) 1272/2008 (CLP), M-factors

Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317

Carc. 2, H351 STOT SE 3, H335

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, Dusts or mist): 1,5 mg/l/4h ATE (as inhalation, Vapours): 11 mg/l/4h

o-(p-isocyanatobenzyl)phenyl isocyanate

Registration number (REACH)

01-2119480143-45-XXXX

Index

615-005-00-9

EINECS, ELINCS, NLP, REACH-IT List-No.

227-534-9

CAS

5873-54-1

content %

1-<10





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o-(p-isocyanatobenzyl)phenyl isocyanate

Classification according to Regulation (EC) 1272/2008 (CLP), M-factors

Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335

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 ATE (as inhalation, Vapours): 11 mg/l/4h

Diphenylmethanediisocyanate, isomeres and homologues

Registration number (REACH)

Index

EINECS, ELINCS, NLP, REACH-IT List-No.

CAS

9016-87-9

content %

1-<10

Classification according to Regulation (EC) 1272/2008 (CLP), M-factors

Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335

STOT RE 2, H373 (respiratory system) (as inhalation)

Diphenylmethanediisocyanate, isomeres and homologues

Specific Concentration Limits and ATE

Skin Irrit. 2, H315: >=5 %
Eye Irrit. 2, H319: >=5 %
Resp. Sens. 1, H334: >=0,1 %
STOT SE 3, H335: >=5 %
ATE (as inhalation. Dusts or mist): 1.5 r

ATE (as inhalation, Dusts or mist): 1,5 mg/l/4h ATE (as inhalation, Vapours): 11 mg/l/4h

Titanium dioxide (in powder form containing 1 % or more of particles with aerodynamic diameter <= 10 µm)

Registration number (REACH)

01-2119489379-17-XXXX

Index

022-006-002

EINECS, ELINCS, NLP, REACH-IT List-No.

236-675-5

CAS

13463-67-7

content %

<5

Classification according to Regulation (EC) 1272/2008 (CLP), M-factors

Carc. 2, H351 (as inhalation)

Specific Concentration Limits and ATE

2,2'-methylenediphenyl diisocyanate

Registration number (REACH)

01-2119927323-43-XXXX

Index

615-005-00-9

EINECS, ELINCS, NLP, REACH-IT List-No.

219-799-4

CAS

2536-05-2

content %

0,1-<1





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2,2'-methylenediphenyl diisocyanate

Classification according to Regulation (EC) 1272/2008 (CLP), M-factors

Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335

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 ATE (as inhalation, Vapours): 11 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. The addition of the highest concentrations listed here can result in a classification. Only when this classification is listed in Section 2 does it apply. In all other cases the total concentration is below the classification.

Section 4: First-aid measures

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:** Remove 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.

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

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

Respiratory distress

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

Indication of any immediate medical attention and special treatment needed:

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

Section 5: Firefighting measures

Extinguishing media:

Suitable extinguishing media:

CO,

Extinction powder





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Water jet spray Foam

Unsuitable extinguishing media:

High volume water jet

Special hazards arising from the substance or mixture:

In case of fire the following can develop:

Oxides of carbon

Oxides of nitrogen

Isocyanates

Hydrocyanic acid (hydrogen cyanide)

Toxic gases

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 measure

Personal precautions, protective equipment and emergency procedures:

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.

For emergency responders:

See section 8 for suitable protective equipment and material specifications.

Environmental precautions:

If leakage occurs, dam up.

Resolve leaks if this possible without risk.

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

Prevent from entering drainage system.

If accidental entry into drainage system occurs,

inform responsible authorities.

Methods and material for containment and cleaning up:

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth, sawdust) and dispose of according to Section 13. Allow to stand for a few days in an unclosed container until reaction no longer occurs. Keep moist.

Do not close packing drum.

 ${\rm CO_2}$ formation in closed tanks causes pressure to rise.

Reference to other sections:

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

Section 7: Handling and storage

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

Precautions for safe handling:

General recommendations:

Ensure good ventilation.

Avoid inhalation of 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.





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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.

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 to . Store in a dry place.

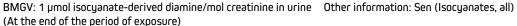
Specific end use(s):

Adhesive

Observe the instructions for good working practice and the recommendations for risk assessment. Consult hazardous substance information systems, e.g. from the professional associations, the chemical industry or different industries, depending on the application (building materials, wood, chemistry, laboratory, leather, metal). Observe special requirements for isocyanates, also within the framework of the risk assessment and definition of protective measures.

Section 8: Exposure control and personal protection

Chemical Name	4,4'-methylenediphenyl diisocyanate
WEL-TWA: 0,02 mg/m³ (Isocyanates, all (as -NCO))	WEL-STEL: 0,07 mg/m³ (Isocyanates, all (as -NCO))
Monitoring procedures	ISO 16702 (Workplace air quality – determination of total isocyanate groups in air using 2-(1-methoxyphenylpiperazine and liquid chromatography) - 2007 MDHS 25/4 (Organic isocyanates in air – Laboratory method using sampling either onto 2-(1-methoxyphenylpiperazine coated glass fibre filters followed by solvent desorption or into impingers and analysis using high performance liquid chromatography) - 2015 - EU project BC/CEN/ENTR/000/2002-16 card 7-4 (2004) NIOSH 5521 (ISOCYANATES, MONOMERIC) - 1994 NIOSH 5525 (ISOCYANATES) - 1998 NIOSH 5525 (ISOCYANATES, TOTAL (MAP)) - 2003 OSHA 18 (Diisocyanates 2,4-TDI and MDI) - 1980 OSHA 47 (Methylene Bisphenyl Isocyanate (MDI)) - 1984
BMGV: 1 μ mol isocyanate-derived diamine/mol creatinine in urine (At the end of the period of exposure)	Other information: Sen (Isocyanates, all)
Chemical Name	o-(p-isocyanatobenzyl)phenyl isocyanate
WEL-TWA: 0,02 mg/m³ (Isocyanates, all (as -NCO))	WEL-STEL: 0,07 mg/m³ (Isocyanates, all (as -NCO))
Monitoring procedures	







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Chemical Name	Diphenylmethanediisocyanate, isomeres and homologues
WEL-TWA: 0,02 mg/m³ (Isocyanates, all (as -NCO))	WEL-STEL: 0,07 mg/m³ (Isocyanates, all (as -NCO))
Monitoring procedures	
BMGV: 1 µmol isocyanate-derived diamine/mol creatinine in u (At the end of the period of exposure)	orine Other information: Sen (Isocyanates, all)
Chemical Name	Titanium dioxide (in powder form containing 1 % or more of particles with aerodynamic diameter <= 10 μ m)
WEL-TWA: 10 mg/m³ (total inhalable dust), 4 mg/m3 (respirable dust)	WEL-STEL:
Monitoring procedures	
BMGV:	Other information:
Chemical Name	2,2'-methylenediphenyl diisocyanate
WEL-TWA: 0,02 mg/m³ (Isocyanates, all (as -NCO))	WEL-STEL: 0,07 mg/m³ (Isocyanates, all (as -NCO))
Monitoring procedures	
BMGV: 1 μmol isocyanate-derived diamine/mol creatinine in u (At the end of the period of exposure)	orine Other information: Sen (Isocyanates, all)
Chemical Name	4,4'-methylenediphenyl diisocyanate
WEL-TWA: 0,02 mg/m³ (Isocyanates, all (as -NCO))	WEL-STEL: 0,07 mg/m³ (Isocyanates, all (as -NCO))
Monitoring procedures	ISO 16702 (Workplace air quality – determination of total isocyanate groups in air using 2-(1-methoxyphenylpiperazine and liquid chromatography) - 2007 MDHS 25/4 (Organic isocyanates in air – Laboratory method using sampling either onto 2-(1-methoxyphenylpiperazine coated glass fibre filters followed by solvent desorption or into impingers and analysis using high performance liquid chromatography) - 2015 - EU

BMGV: 1 µmol isocyanate-derived diamine/mol creatinine in urine Other information: Sen (Isocyanates, all) (At the end of the period of exposure)

Chemical Name	Silicon dioxide
WEL-TWA: 6 mg/m³ (total inh. dust), 2,4 mg/m³ (resp. dust)	WEL-STEL:
Monitoring procedures	
BMGV:	Other information:



project BC/CEN/ENTR/000/2002-16 card 7-4 (2004) NIOSH 5521 (ISOCYANATES, MONOMERIC) - 1994

NIOSH 5525 (ISOCYANATES, TOTAL (MAP)) - 2003 OSHA 18 (Diisocyanates 2,4-TDI and MDI) - 1980 OSHA 47 (Methylene Bisphenyl Isocyanate (MDI)) - 1984

NIOSH 5522 (ISOCYANATES) - 1998



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Chemical Name	o-(p-isocyanatobenzyl)phenyl isocyanate
WEL-TWA: 0,02 mg/m³ (Isocyanates, all (as -NCO))	WEL-STEL: 0,07 mg/m³ (Isocyanates, all (as -NCO))
Monitoring procedures	

BMGV: 1 µmol isocyanate-derived diamine/mol creatinine in urine Other information: Sen (Isocyanates, all) (At the end of the period of exposure)

Chemical Name	Calcium carbonate
WEL-TWA: 4 mg/m 3 (respirable dust), 10 mg/m 3 (total inhalable dust)	WEL-STEL:
Monitoring procedures	
BMGV:	Other information:
Chemical Name	Diphenylmethanediisocyanate, isomeres and homologues
WEL-TWA: 0,02 mg/m³ (Isocyanates, all (as -NCO))	WEL-STEL: 0,07 mg/m³ (Isocyanates, all (as -NCO))
Monitoring procedures	

BMGV: 1 µmol isocyanate-derived diamine/mol creatinine in urine Other information: Sen (Isocyanates, all) (At the end of the period of exposure)

Propylene carbonate						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - sporadic (intermittent) release		PNEC	9	mg/l	
	Environment - marine		PNEC	0,09	mg/l	
	Environment - sediment, marine		PNEC	0,083	mg/l	
	Environment - soil		PNEC	0,81	mg/l	
	Environment - freshwater		PNEC	0,9	mg/l	
	Environment - sediment, freshwater		PNEC	0,83	mg/l	
	Environment - sewage treatment plant		PNEC	7400	mg/l	
Consumer	Human - oral	Long term, systemic effects	DNEL	10	mg/kg	
Consumer	Human - dermal	Long term, systemic effects	DNEL	10	mg/kg	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	10	mg/m³	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	17,4	mg/m³	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	70,53	mg/kg	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	176	mg/m³	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	20	mg/kg	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	20	mg/m³	





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4,4'-methylenediphen	ul diisocuanate					
Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note
Alea of application	Environmental compartment	Effect off flegitif	Descriptor	Volue	Offic	Note
	Environment - freshwater		PNEC	3,7	µg/l	
	Environment - marine		PNEC	0,37	µg/l	
	Environment - sewage treatment plant		PNEC	1	mg/l	
	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/cm²	
Consumer	Human - dermal	Short term, systemic effects	DNEL	25	mg/kg bw/d	
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	0,025	mg/m³	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	0,025	mg/m³	
Workers / employees	Human - dermal	Short term, systemic effects	DNEL	50	mg/kg bw/d	
Workers / employees	Human - dermal	Short term, local effects	DNEL	28,7	mg/cm²	
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	0,1	mg/m³	
Workers / employees	Human - inhalation	Short term, local effects	DNEL	0,1	mg/m³	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	0,05	mg/m³	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	0,05	mg/m³	
Diphenylmethanediiso	cyanate, isomeres and homolog	ues				
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	3,7	µg/l	
	Environment - marine		PNEC	0,37	µg/l	
	Environment - sediment, freshwater		PNEC	11,7	mg/kg	
	Environment - sediment, marine		PNEC	1,17	mg/kg	
	Environment - soil		PNEC	2,33	mg/kg	





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Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note
Area of application	Environmental compartment	Effect of ficoles	Descriptor	V0.00	Oilic	Note
Workers / employees	Human - inhalation	Short term, local effects	DNEL	0,1	mg/m³	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	0,05	mg/m³	
Titanium dioxide (in po	owder form containing 1 % or mo	ore of particles with aerodynan	nic diameter <	:= 10 µm)		
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	0,184	mg/l	
	Environment - marine		PNEC	0,0184	mg/l	
	Environment - water, sporadic (intermittent) release		PNEC	0,193	mg/l	
	Environment - sewage treatment plant		PNEC	100	mg/l	
	Environment - sediment, freshwater		PNEC	1000	mg/kg dw	
	Environment - sediment, marine		PNEC	100	mg/kg dw	
	Environment - soil		PNEC	100	mg/kg dw	
	Environment - oral (animal feed)		PNEC	1667	mg/kg feed	
Consumer	Human - oral	Long term, systemic effects	DNEL	700	mg/kg bw/d	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	10	mg/m³	
2,2'-methylenediphen	yl diisocyanate					
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	1	mg/l	
	Environment - marine		PNEC	0,1	mg/l	
	Favisaamaat sawaaa		DNEC	1	mg/l	
	Environment - sewage treatment plant		PNEC	'		
	•		PNEC	1	mg/kg dw	
	treatment plant				Ū	
Consumer	treatment plant Environment - soil Environment - water, sporadic	Short term, systemic effects	PNEC	1	mg/kg dw	
Consumer Consumer	treatment plant Environment - soil Environment - water, sporadic (intermittent) release	Short term, systemic effects Short term, local effects	PNEC PNEC	1	mg/kg dw mg/l mg/kg	
Consumer	treatment plant Environment - soil Environment - water, sporadic (intermittent) release Human - oral		PNEC PNEC DNEL	1 10 20	mg/kg dw mg/l mg/kg bw/d	
	treatment plant Environment - soil Environment - water, sporadic (intermittent) release Human - oral Human - dermal	Short term, local effects	PNEC PNEC DNEL	1 10 20 17,2	mg/kg dw mg/l mg/kg bw/d mg/cm² mg/kg	
Consumer Consumer	treatment plant Environment - soil Environment - water, sporadic (intermittent) release Human - oral Human - dermal Human - dermal	Short term, local effects Short term, systemic effects	PNEC PNEC DNEL DNEL DNEL	1 10 20 17,2 25	mg/kg dw mg/l mg/kg bw/d mg/cm² mg/kg bw/d	





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2,2'-methylenediphen	yl diisocyanate					
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
Consumer	Human - inhalation	Long term, systemic effects	DNEL	0,025	mg/m³	
Consumer	Human - inhalation	Long term, local effects	DNEL	0,025	mg/m³	
Workers / employees	Human - dermal	Short term, local effects	DNEL	28,7	mg/cm²	
Workers / employees	Human - dermal	Short term, systemic effects	DNEL	50	mg/kg bw/d	
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, systemic effects	DNEL	0,05	mg/m³	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	0,05	mg/m³	
4,4'-methylenediphen	yl diisocyanate					
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	1	mg/l	
	Environment - marine		PNEC	0,1	mg/l	
	Environment - soil		PNEC	1	mg/kg dw	
	Environment - sewage treatment plant		PNEC	1	mg/l	
	Environment - water, sporadic (intermittent) release		PNEC	10	mg/l	
Consumer	Human - dermal	Short term, systemic effects	DNEL	25	mg/kg bw/d	
Consumer	Human - inhalation	Short term, systemic effects	DNEL	0,05	mg/m³	
Consumer	Human - oral	Short term, systemic effects	DNEL	20	mg/kg bw/d	
Consumer	Human - dermal	Short term, local effects	DNEL	17,2	mg/cm²	
Consumer	Human - inhalation	Short term, local effects	DNEL	0,05	mg/m³	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	0,025	mg/m³	
Consumer	Human - inhalation	Long term, local effects	DNEL	0,025	mg/m³	
Workers / employees	Human - dermal	Short term, systemic effects	DNEL	50	mg/kg bw/d	
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	0,1	mg/m³	
Workers / employees	Human - dermal	Short term, local effects	DNEL	28,7	mg/cm²	
Workers / employees	Human - inhalation	Short term, local effects	DNEL	0,1	mg/m³	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	0,05	mg/m³	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	0,05	mg/m³	





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o-(p-isocyanatobenzyl)phenyl isocyanate					
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	1	mg/l	
	Environment - marine		PNEC	0,1	mg/l	
	Environment - soil		PNEC	1	mg/kg dry weight	
	Environment - sewage treatment plant		PNEC	1	mg/l	
Consumer	Human - dermal	Short term, systemic effects	DNEL	25	mg/kg body weight/day	
Consumer	Human - inhalation	Short term, systemic effects	DNEL	0,05	mg/m³	
Consumer	Human - oral	Short term, systemic effects	DNEL	20	mg/kg body weight/day	
Consumer	Human - dermal	Short term, local effects	DNEL	17,2	mg/cm²	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	0,025	mg/m³	
Consumer	Human - inhalation	Long term, local effects	DNEL	0,025	mg/m³	
Workers / employees	Human - dermal	Short term, systemic effects	DNEL	50	mg/kg bw/day	
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	0,1	mg/m³	
Workers / employees	Human - dermal	Short term, local effects	DNEL	28,7	mg/cm²	
Workers / employees	Human - inhalation	Short term, local effects	DNEL	0,1	mg/m³	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	0,05	mg/m³	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	0,05	mg/m³	
Diphenylmethanediiso	cyanate, isomeres and homolog	ues				
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	1	mg/l	
	Environment - marine		PNEC	0,1	mg/l	
	Environment - water, sporadic (intermittent) release		PNEC	10	mg/l	
	Environment - sewage treatment plant		PNEC	1	mg/l	
	Environment - soil		PNEC	1	mg/kg	
Consumer	Humən - orəl	Short term, local effects	DNEL	20	mg/kg bw/d	
Consumer	Human - inhalation	Short term, local effects	DNEL	0,05	mg/m³	
		Ch + +	DNE	0.05	13	
Consumer	Human - inhalation	Short term, systemic effects	DNEL	0,05	mg/m³	





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Diphenylmethanediisocyanate, isomeres and homologues						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
Consumer	Human - inhalation	Long term, local effects	DNEL	0,025	mg/m³	
Consumer	Human - dermal	Short term, local effects	DNEL	17,2	mg/cm²	
Consumer	Human - dermal	Short term, systemic effects	DNEL	25	mg/kg bw/d	
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	
Workers / employees	Human - dermal	Short term, local effects	DNEL	28,7	mg/cm²	
Workers / employees	Human - dermal	Short term, systemic effects	DNEL	50	mg/kg bw/d	

United Kingdom | WEL-TWA = Workplace Exposure Limit - Long-term exposure limit - 8-hour TWA (= time weighted average) reference period (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).

(EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU:

- (8) = Inhalable fraction (2004/37/CE, 2017/164/EU).
- (9) = Respirable fraction (2004/37/CE, 2017/164/EU).
- (11) = Inhalable fraction (2004/37/CE).

(12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (2004/37/CE).

WEL-STEL = Workplace Exposure Limit - Short-term exposure limit - 15-minute reference period (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).

(EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU:

- (8) = Inhalable fraction (2004/37/EC, 2017/164/EU).
- (9) = Respirable fraction (2004/37/EC, 2017/164/EU).
- (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU).

BMGV = Biological monitoring guidance value (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).

(EU) = Directive 98/24/EC or 2004/37/EC or SCOEL (Biological Limit Value - BLV, Recommendation from the Scientific Committee on Occupational Exposure Limits (SCOEL)) Other information (EH40/2005 Workplace exposure limits (Fourth Edition 2020)): Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.

(EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU:

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

Exposure controls:

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".





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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 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.

Environmental exposure controls:

No information available at present.

Section 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state

Paste, liquid.

Colour

According to specification

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

There is no information available on this parameter.

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

There is no information available on this parameter.

Decomposition temperature

There is no information available on this parameter.

ρΗ

Substance reacts with water.





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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

1,52 g/cm3 (relative density

Relative vapour density

There is no information available on this parameter.

Particle characteristics

Does not apply to liquids.

Section 10: Stability and reactivity

Reactivity: reacts with water

Chemical stability

Stable with proper storage and handling.

Possibility of hazardous reactions:

Exothermic reaction possible with:

Alcohols

Amines

Bases

Acids

Water

Developement of:

Carbon dioxide

 $\mathrm{CO}_{_{2}}$ formation in closed tanks causes pressure to

rise.

Pressure increase will result in danger of bursting.

Conditions to avoid:

Protect from humidity.

Polymerisation due to high heat is possible.

T > ~ 260°C

Incompatible materials:

Acids

Bases

Amines

Alcohols

Water

Hazardous decomposition products:

No decomposition when used as directed. $\,$

Section 11: Toxicological information

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

Possibly more information on health effects, see Section 2.1 (classification).

OBEX CORTEX 0363 1-Part Adhesive								
Toxicity / effect	Endpoint	Value	Unit	Organism	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, calculat- ed 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.		





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ODEY CODTEY COSC 1 D						
OBEX CORTEX 0363 1-Part Adhes						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
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.
Propylene carbonate						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route	LD50	>5000	mg/kg	Rət	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route	LD50	>2000	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	
Skin corrosion/irritation				Rəbbit	OECD 404 (Acute Dermal Irritation/ Corrosion)	Not irritant
Serious eye damage/irritation				Rəbbit	OECD 405 (Acute Eye Irritation/ Corrosion)	Irritant
Respiratory or skin sensitisation				Human being		No (skin contact)
Germ cell mutagenicity					OECD 471 (Bacterial Reverse Mutation Test)	Negative
Germ cell mutagenicity					OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative
Germ cell mutagenicity					OECD 482 (Gen. Tox. - DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells In Vitro)	Negative
Carcinogenicity				Mouse	OECD 451 (Carcinogenicity Studies)	Negative
Reproductive toxicity	NOAEL	1000	mg/kg	Rət	OECD 414 (Prenatal Developmental Toxicity Study)	Negative
Aspiration hazard						No





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Propylene carbonate						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Symptoms						breath- ing diffi- culties, head- aches, gastroin- tes tinal distur- bances, dizzi- ness, nausea
Specific target organ toxicity - repeated exposure (STOT-RE), oral	NOEL	>5000	mg/kg		OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)	
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.	NOEC	100	mg/m³		OECD 413 (Subchronic Inhala- tion Toxicity - 90-Day Study)	Dust, Mist
4,4'-methylenediphenyl diisocyanat	:e					
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route	LD50	>2000	mg/kg	Rət	Regulation (EC) 440/2008 B.1 (ACUTE ORAL TOXICITY)	Anal- ogous conclu- sion
Acute toxicity, by dermal route	LD50	>9400	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	Anal- ogous conclu- sion
Acute toxicity, by inhalation	ATE	11	mg/l/4h			Vapours
Acute toxicity, by inhalation	ATE	1,5	mg/l/4h			Dusts or mist
Acute toxicity, by inhalation	LC50	0,368	mg/l/ 4h	Rat	OECD 403 (Acute Inhalation Toxicity)	Aerosol, Does not conform with EU classifi- cation.
Acute toxicity, by inhalation	LC50	1,5	mg/l/4h			Aerosol, Expert judge- ment.





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4,4'-methylenediphenyl diisocyana	ote					
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Skin corrosion/irritation				Rəbbit	OECD 404 (Acute Dermal Irritation/ Corrosion)	Skin Irrit. 2, Analo- gous conclu- sion
Respiratory or skin sensitisation				Guinea pig		Yes (inhələ- tion)
Respiratory or skin sensitisation				Mouse	OECD 429 (Skin Sensitisation - Local Lymph Node Assay)	Skin Sens. 1
Germ cell mutagenicity				Səlmonellə typhimurium	OECD 471 (Bacterial Reverse Mutation Test)	Neg- ative, Anal- ogous conclu- sion
Germ cell mutagenicity				Rat	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Nega- tivem ale
Germ cell mutagenicity				Rat	OECD 489 (In Vivo Mammalian Alkaline Comet Assay)	Nega- tivem ale
Carcinogenicity				Rət	OECD 453 (Combined Chronic Toxicity/Car- cinog enicity Studies)	Aerosol, Anal- ogous conclu- sion, Carc. 2
Reproductive toxicity	NOAEL	4-12	mg/m³	Rat	OECD 414 (Prenatal Developmental Toxicity Study)	Aerosol, Analo- gous conclu- sion
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.	NOAEL	1	mg/m³	Rət	OECD 453 (Combined Chronic Toxicity/ Carcinogenicity Studies)	Aerosol, Anal- ogous conclu- sion, Target organ(s): respira- tory system





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4,4'-methylenediphenyl diisocyanate								
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes		
Specific target organ toxicity - single exposure (STOT-SE), inhalative						May cause respira- tory irri- tation.		
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.	NOAEL	0,2	mg/m³	Rat	OECD 453 (Combined Chronic Toxicity/ Carcinogenicity Studies)	Aerosol, Anal- ogous conclu- sion, Target organ(s): respira- tory system		

o-(p-isocyanatobenzyl)phenyl isocyanate									
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes			
Acute toxicity, by oral route	LD50	>2000	mg/kg	Rət	Regulation (EC) 440/2008 B.1 (ACUTE ORAL TOXICITY)	Anal- ogous conclu- sion			
Acute toxicity, by dermal route	LD50	>9400	mg/kg	Rəbbit	OECD 402 (Acute Dermal Toxicity)	Anal- ogous conclu- sion			
Acute toxicity, by inhalation	LD50	0,387	mg/l/4h	Rat		Aerosol, Does not conform with EU classifi- cation.			
Acute toxicity, by inhalation	ATE	1,5	mg/l/4h			Aerosol, Expert judge- ment.			
Acute toxicity, by inhalation	ATE	11	mg/l/4h			Vapours			
Skin corrosion/irritation				Rabbit	OECD 404 (Acute Dermal Irritation/ Corrosion)	Skin Irrit. 2, Anal- ogous conclu- sion			





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o-(p-isocyanatobenzyl)phenyl isoc	yanate					
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Serious eye dəməge/irritətion				Rabbit	OECD 405 (Acute Eye Irritation/ Corrosion)	Not irritant, Analogous conclusion, Does not conform with EU classification.
Respiratory or skin sensitisation				Guinea pig	OECD 406 (Skin Sensitisation)	No (skin contact), Anal- ogous conclu- sion
Respiratory or skin sensitisation				Guinea pig		Yes (inha- lation), Anal- ogous conclu- sion
Respiratory or skin sensitisation				Mouse	OECD 429 (Skin Sensitisation - Local Lymph Node Assay)	Yes (skin contact), Anal- ogous conclu- sion
Germ cell mutagenicity				Səlmonellə typhimurium	OECD 471 (Bacterial Reverse Mutation Test)	Neg- ative, Anal- ogous conclu- sion
Germ cell mutagenicity				Rət	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Neg- ative, Anal- ogous con- clusion male
Carcinogenicity				Rət	OECD 453 (Combined Chronic Toxicity/Car- cinog enicity Studies)	Aerosol, Anal- ogous conclu- sion, Carc. 2





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o-(p-isocyanatobenzyl)phenyl isocyanate								
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes		
Reproductive toxicity	NOAEL	4-12	mg/kg	Rət	OECD 414 (Prenatal Developmental Toxicity Study)	Aerosol, Anal- ogous conclu- sion		
Symptoms						mucous mem- brane irritation, breath- ing diffi- culties, cough- ing, asth- matic symp- toms		
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.	NOAEL	0,2	mg/m³	Rat	OECD 453 (Combined Chronic Toxicity/ Carcinog enicity Studies)	Aerosol, Anal- ogous conclu- sion, Target organ(s): respira- tory system		
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.	LOAEL	1	mg/m³	Rat	OECD 453 (Combined Chronic Toxicity/ Carcinog enicity Studies)	Aerosol, Anal- ogous conclu- sion, Target organ(s): respira- tory system		





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Diphenylmethanediisocyanate, iso	meres and homo	logues				
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route	LD50	>5000	mg/kg	Rət	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route	LD50	>5000	mg/kg	Rəbbit	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation	LD50	0,31-0,49	mg/l/4h	Rat	OECD 403 (Acute Inhalation Toxicity)	Aerosol, Does not conform with EU classifi- cation.
Acute toxicity, by inhalation	ATE	11	mg/l/4h			Vapours
Acute toxicity, by inhalation	ATE	1,5	mg/l/4h			Dusts or mist
Skin corrosion/irritation				Rəbbit	OECD 404 (Acute Dermal Irritation/ Corrosion)	Skin Irrit. 2
Serious eye damage/irritation				Rəbbit	OECD 405 (Acute Eye Irritation/ Corrosion)	Eye Irrit. 2
Respiratory or skin sensitisation				Mouse	OECD 429 (Skin Sensitisation - Local Lymph Node Assay)	Yes (skin contact), Anal- ogous conclu- sion
Respiratory or skin sensitisation				Guinea pig	OECD 406 (Skin Sensitisation)	Yes (skin contact)
Respiratory or skin sensitisation				Rət		Yes (inhala- tion)
Germ cell mutagenicity				Rat	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative, Anal- ogous conclu- sion
Germ cell mutagenicity				Səlmonellə typhimurium	OECD 471 (Bacterial Reverse Mutation Test)	Negative
Reproductive toxicity	NOAEL	4	mg/m³	Rət	OECD 414 (Prenatal Developmental Toxicity Study)	Aerosol, Negative
Carcinogenicity				Rat	OECD 453 (Combined Chronic Toxicity/Car- cinogenicity Studies)	Aerosol, Limited evidence of a car- cinogenic effect.





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Diphenylmethanediisocyanate, isomeres and homologues									
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes			
Specific target organ toxicity - single exposure (STOT-SE), inhalative						Target organ(s): respiratory system, May cause respiratory irritation.			
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.						Target or- gan(s): respira- tory system			
Symptoms						breath- ing diffi- culties			
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.	LOAEL	1	mg/m³	Rat	OECD 453 (Combined Chronic Toxicity/ Carcinogenicity Studies)	Aerosol, Anal- ogous conclu- sion			
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.	NOAEL	0,2	mg/m³	Rat	OECD 453 (Combined Chronic Toxicity/ Carcinog enicity Studies)	Aerosol, Anal- ogous conclu- sion			
Titanium dioxide (in powder form	containing 1 % o	r more of partic	les with aerodyn	amic diameter <:	= 10µm)				
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes			
Acute toxicity, by oral route	LD50	>5000	mg/kg	Rət	OECD 425 (Acute Oral Toxicity - Upand- Down Procedure)				
Acute toxicity, by dermal route	LD50	>5000	mg/kg	Rəbbit					
Acute toxicity, by inhalation	LD50	>6,8	mg/l/4h	Rət					
Skin corrosion/irritation				Rəbbit	OECD 404 (Acute Dermal Irritation/ Corrosion)	Not irritant			
Serious eye damage/irritation				Rəbbit	OECD 405 (Acute	Not			



Eye Irritation/

Corrosion)

irritant,

Mechanical irritation possible.



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Titanium dioxide (in powder form c	ontaining 1 % o	r more of partic	les with aerodyn	amic diameter <	= 10µm)	
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Respiratory or skin sensitisation				Mouse	OECD 429 (Skin Sensitisation - Local Lymph Node Assay)	Not sensiti- zising
Respiratory or skin sensitisation				Guinea pig	OECD 406 (Skin Sensitisation)	No (skir contact
Germ cell mutagenicity				Mouse	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negativ
Germ cell mutagenicity				Məmməliən	OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative
Germ cell mutagenicity				Səlmonellə typhimurium	(Ames-Test)	Negative
Germ cell mutagenicity					OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative
Germ cell mutagenicity					OECD 471 (Bacterial Reverse Mutation Test)	Negative
Reproductive toxicity (Developmental toxicity)				Rət	OECD 414 (Prenatal Developmental Toxicity Study)	No indi- cations of such an effect
Specific target organ toxicity - single exposure (STOT-SE)						Not irritant (res-piratory tract).
Specific target organ toxicity - repeated exposure (STOT-RE), oral	NOAEL	3500	mg/kg/d	Rət		(90d)
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.	NOAEC	10	mg/m³	Rət		(90d)
Symptoms						mucous membrane irritation, coughing, respiratory distress, drying of the skin.





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2,2'-methylenediphenyl diisocyana						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route	LD50	>2000	mg/kg	Rat	Regulation (EC) 440/2008 B.1 (ACUTE ORAL TOXICITY)	Anal- ogous conclu- sion
Acute toxicity, by dermal route	LD50	>9400	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	Anal- ogous conclu- sion
Acute toxicity, by inhalation	LD50	0,527	mg/l/4h	Rat	OECD 403 (Acute Inhalation Toxicity)	Aerosol, Does not conform with EU classifi- cation.
Acute toxicity, by inhalation	ATE	1,5	mg/l			Aerosol, Expert judge- ment
Acute toxicity, by inhalation	ATE	11	mg/l/4h			Vapours
Skin corrosion/irritation				Rəbbit	OECD 404 (Acute Dermal Irritation/ Corrosion)	Skin Irrit. 2
Serious eye damage/irritation				Rəbbit	OECD 405 (Acute Eye Irritation/ Corrosion)	Slightly irritant
Respiratory or skin sensitisation				Guinea pig		Yes (in- halation), Anal- ogous conclu- sion
Respiratory or skin sensitisation				Mouse	OECD 429 (Skin Sensitisation - Local Lymph Node Assay)	Yes (skin contact)
Germ cell mutagenicity				Səlmonellə typhimurium	OECD 471 (Bacterial Reverse Mutation Test)	Negative
Germ cell mutagenicity				Rat	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative, Anal- ogous conclu- sion
Carcinogenicity				Rat	OECD 453 (Combined Chronic Toxicity/ Carcinog enicity Studies)	Anal- ogous conclu- sion, Aerosol, Carc. 2





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2,2'-methylenediphenyl diisocyana	ote					
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Reproductive toxicity	NOAEL	4-12	mg/m³	Rət	OECD 414 (Prenatal Developmental Toxicity Study)	No indica- tions of such an effect., Aerosol, Anal- ogous conclu- sion
Symptoms						respira- tory distress, coughing, mucous mem- brane irritation
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.	NOAEL	0,2	mg/m³	Rət	OECD 453 (Combined Chronic Toxicity/ Carcinogenicity Studies)	Aerosol, Target organ(s): respira- tory system, Anal- ogous conclu- sion
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.	LOAEL	1	mg/m³	Rət	OECD 453 (Combined Chronic Toxicity/ Carcinogenicity Studies)	Aerosol, Target organ(s): respira- tory system, Anal- ogous conclu- sion
4,4'-methylenediphenyl diisocyana	ote					
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route	LD50	>10000	mg/kg	Rət	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by oral route	LD50	>2000	mg/kg	Rət	Regulation (EC) 440/2008 B.1 (ACUTE ORAL TOXICITY)	
Acute toxicity, by dermal route	LD50	>9400	mg/kg	Rabbit	OECD 402 (Acute	



Dermal Toxicity)



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4,4'-methylenediphenyl diisocyana	ote					
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by inhalation	LD50	>2,24	mg/l/4h	Rat	OECD 403 (Acute Inhalation Toxicity)	Aerosol
Acute toxicity, by inhalation	LC50	0,368	mg/l/4h	Rat	OECD 403 (Acute Inhalation Toxicity)	Does not conform with EU classifi- cation.
Skin corrosion/irritation				Rəbbit	OECD 404 (Acute Dermal Irritation/ Corrosion)	Irritant, Anal- ogous conclu- sion
Serious eye damage/irritation				Rəbbit	OECD 405 (Acute Eye Irritation/ Corrosion)	Irritant, Anal- ogous conclu- sion
Respiratory or skin sensitisation				Mouse	OECD 429 (Skin Sensitisation - Local Lymph Node Assay)	Yes (skin contact), Anal- ogous conclu- sion
Respiratory or skin sensitisation				Guinea pig		Yes (inhələ- tion)
Germ cell mutagenicity				Rət	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative
Germ cell mutagenicity					OECD 471 (Bacterial Reverse Mutation Test)	Negative, Anal- ogous conclu- sion
Reproductive toxicity	NOAEL	4	mg/m³	Rat	OECD 414 (Prenatal Developmental Toxicity Study)	Negative, Anal- ogous conclu- sion
Carcinogenicity					OECD 453 (Combined Chronic Toxicity/Car- cinogenicity Studies)	Analogous conclusion, Limited evidence of a carcinogenic effect.





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4,4'-methylenediphenyl diisocyana	əte					
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Symptoms						respira- tory distress, coughing, mucous mem- brane irritation
Specific target organ toxicity - single exposure (STOT-SE), inhalative						Irritation of the respira- tory tract
Specific target organ toxicity - single exposure (STOT-SE), inhalative						Irritation of the respira- tory tract, Target organ(s): respira- tory system
Silicon dioxide						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by dermal route	LD50	> 2000	mg/kg	Rat	OECD 402 (Acute Dermal Toxicity)	
Skin corrosion/irritation				Rəbbit	OECD 404 (Acute Dermal Irritation/ Corrosion)	Not irritant
Serious eye damage/irritation				Rəbbit	OECD 405 (Acute Eye Irritation/ Corrosion)	Not irritant
Germ cell mutagenicity					OECD 405 (Acute Eye Irritation/ Corrosion)	Negative
Aspiration hazard					OECD 471 (Bacterial Reverse Mutation Test)	No
o-(p-isocyanatobenzyl)phenyl isoc	yanate					
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route	LD50	>2000	mg/kg	Rət	Regulation (EC) 440/2008 B.1 (ACUTE ORAL TOXICITY)	Anal- ogous conclu-



sion



SDSSafety Data Sheet

o-(p-isocyanatobenzyl)phenyl isoc	yanate					
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by dermal route	LD50	>9400	mg/kg	Rəbbit	OECD 402 (Acute Dermal Toxicity)	Anal- ogous conclu- sion
Acute toxicity, by inhalation	LD50	0,387	mg/l/4h	Rat		Does not conform with EU classifi- cation.
Skin corrosion/irritation				Rəbbit	OECD 404 (Acute Dermal Irritation/ Corrosion)	Irritant, Anal- ogous conclu- sion
Respiratory or skin sensitisation				Mouse	OECD 429 (Skin Sensitisation - Local Lymph Node Assay)	Sensitis- ing (skin contact), Anal- ogous conclu- sion
Respiratory or skin sensitisation				Guinea pig	OECD 406 (Skin Sensitisation)	Yes (in- halation), Anal- ogous conclu- sion
Germ cell mutagenicity					OECD 471 (Bacterial Reverse Mutation Test)	Negative, Anal- ogous conclu- sion
Carcinogenicity					OECD 453 (Combined Chronic Toxicity/ Carcinog enicity Studies)	Analogous conclusion, Limited evidence of a carcinogenic effect.
Reproductive toxicity					OECD 414 (Prenatal Developmental Toxic- ity Study)	Negative





SDSSafety Data Sheet

o-(p-isocyanatobenzyl)phenyl isoc	uanate					
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Symptoms						asthmatic symptoms, mucous mem- brane irritation
Specific target organ toxicity - single exposure (STOT-SE), inhalative						Target organ(s): respira- tory tract, Irritant
Calcium carbonate						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route	LD50	>2000	mg/kg	Rət	OECD 420 (Acute Oral toxicity - Fixe Dose Procedure)	
Acute toxicity, by oral route	LD50	>5000	mg/kg	Rat		
Acute toxicity, by dermal route	LD50	>2000	mg/kg	Rət	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation	LD50	>3	mg/l/4h	Rat	OECD 403 (Acute Inhalation Toxicity)	
Skin corrosion/irritation				Rəbbit	OECD 404 (Acute Dermal Irritation/ Corrosion)	Not irritant
Serious eye damage/irritation				Rabbit	OECD 405 (Acute Eye Irritation/ Corrosion)	Not irritant, Mechanical irritation possible.
Respiratory or skin sensitisation						No (skin contact)
Germ cell mutagenicity					in vitro	Negative
Carcinogenicity						Negative, adminis- tered as Calactate
Reproductive toxicity						Negative, adminis- tered as Cacar- bonate





SDSSafety Data Sheet

Diphenylmethanediisocyanate, iso		=				
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route	LD50	>10000	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route	LD50	>9400	mg/kg	Rəbbit	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation	LD50	0,49	mg/l/4h	Rat	OECD 403 (Acute Inhalation Toxicity)	Aerosol, Does not conform with EU classifi- cation.
Skin corrosion/irritation				Rəbbit	OECD 404 (Acute Dermal Irritation/ Corrosion)	Skin Irrit. 2
Serious eye damage/irritation				Rəbbit	(Acute Eye Irritation/ Corrosion)	Mild irritant
Respiratory or skin sensitisation				Guinea pig	OECD 406 (Skin Sensitisation)	Yes (skin contact)
Respiratory or skin sensitisation				Rət		Yes (inhələ- tion)
Germ cell mutagenicity				Salmonella typhimurium	Regulation (EC) 440/2008 B.13/B.14 (REVERSE MUTA- TION TEST USING BACTERIA)	Anal- ogous conclu- sion, Negative
Germ cell mutagenicity				Rət	OECD 474 (Mam- malian Erythrocyte Micronucleus Test)	Negative, Anal- ogous conclu- sion
Carcinogenicity		1	mg/m³	Rət	OECD 453 (Combined Chronic Toxicity/Car- cinogenicity Studies)	Positive
Reproductive toxicity (Developmental toxicity)		4	mg/m³	Rət	OECD 414 (Prenatal Developmental Toxicity Study)	Negative
Reproductive toxicity (Effects on fertility)				Rət	OECD 414 (Prenatal Developmental Toxicity Study)	Negative
Reproductive toxicity			mg/m³	Rət	OECD 414 (Prenatal Developmental Toxicity Study)	Neg- ative, Aerosol
Specific target organ toxicity - single exposure (STOT-SE)						Irritation of the respira- tory tract





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Updated 23.12.24

Diphenylmethanediisocyanate, is	omeres and hom	ologues				
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Specific target organ toxicity - repeated exposure (STOT-RE)	NOEC	0,2	mg/kg		OECD 453 (Combined Chronic Toxicity/Car- cinogenicity Studies)	
Aspiration hazard						No
Symptoms						fever, cough- ing, head- aches, nausea and vomit- ing., diz- ziness, breath- ing diffi- culties, laryngeal oedema, abdomi- nal pain, diar- rhoea
Specific target organ toxicity - single exposure (STOT-SE), inhalative 11.2. Information on oth	ner həzərds					Target organ(s): respiratory organs, May cause respiratory irritation.
OBEX CORTEX 0363 1-Part Adhe						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
•	*			-		



Endocrine disrupting properties

Does not apply to mixtures.



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OBEX CORTEX 0363 1-Part Adhesi	ive					
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
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).

OBEX CORTEX 0363 1-Part Adhe	sive						
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish							n.d.a.
Toxicity to daphnia							n.d.a.
Toxicity to algae							n.d.a.
Persistence and degradability							With water at the interface, transforms slowly with formation of CO ₂ into a firm, insoluble reaction product with a high melting point (polycarbamide). According to experience available to date, polycarbamide is inert and nondegradable
Bioaccumulative potential							n.d.a.
Mobility in soil							n.d.a.
Results of PBT and vPvB assessment							n.d.a.
Endocrine disrupting properties							Does not apply to mixtures.
Other adverse effects							No information available on other adverse effects on the environment.





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OBEX CORTEX 0363 1-Part Adhesi	ve						
Toxicity / effect Other information	Endpoint	Time	Value	Unit	Organism	Test method	Notes DOC-elimination degree (com- plexing organic substance) >= 80%/28d: No
Other information	AOX		0	%			According to the recipe, contains no AOX.
Propylene carbonate							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish	LC50	96h	>1000	mg/l	Cyprinus caprio	92/69/EC	
Toxicity to daphnia	EC50	48h	>1000	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immo- bilisation Test)	
Toxicity to algae	EC50	72h	>900	mg/l	Desmodesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
Persistence and degradability			83,5- 87-7	%		OECD 301 B (Ready Biodeg- radability - Co ₂ Evolution Test)	Readily biodegra- da ble29d
Persistence and degradability	DOC	14d	90- 100	%		OECD 301 A (Ready Bio- degradability - DOC Die-Away Test)	
Bioaccumulative potential	Log Pow		-0,41				Bioaccumula- tion is unlikely (LogPow < 1)., calculated value
Results of PBT and vPvB assessment							No PBT sub- stance, No vPvB substance
Toxicity to bacteria	EC10	16h	7400	mg/l	Pseudomonas putida	DIN 38412 T.8	
Other information	AOX		0	%			Does not contain any organically bound halo- gens which can contribute to the AOX value in waste water.





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4,4'-methylenediphenyl diisocyana	ete						
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish	LC50	96h	>1000	mg/l	Brachydaniore- rio	OECD 203 (Fish, Acute Toxicity Test)	Analogous con- clusion
Toxicity to daphnia	EC50	24h	>1000	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immo- bilisation Test)	Analogous con- clusion
Toxicity to daphnia	NOEC/ NOEL	21d	>10	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproduction Test)	Analogous conclusion
Toxicity to algae	ErC50	72h	>1640	mg/l	Desmodesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	Analogous con- clusion
Persistence and degradability		28d	0	%		OECD 302 C (Inherent Biodegradabil- ity - Modified MITI Test (II))	Not biodegradable, With water at the interface, transforms slow ly with formation of CO ₂ into a firm insoluble reactio product with a high melting point (polycarbamide)., According to experience available to date polycarbamide is inert and nondegradable., Analogous conclusion
Bioaccumulative potential	Log Pow		5,22				A notable biological accumulation potential has to be expected (LogPow > 3).
Bioaccumulative potential	BCF	28d	200		Cyprinus caprio	IUCLID Chem. Data Sheet (ESIS)	Not to be ex- pected
Mobility in soil	H (Henry)		0,0229	Pa*m³/ mol			
Results of PBT and vPvB assessment							No PBT sub- stance, No vPvB substance





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4,4'-methylenediphenyl diisoo	cyanate						
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to bacteria	EC50	3h	>100	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	Analogous con- clusion
Other organisms	NOEC/ NOEL	14d	>1000	mg/kg	Lactuca sativa	OECD 208 (Terrestri- al Plants, Growth Test)	Analogous con- clusion
Other organisms	NOEC/ NOEL	14d	>1000	mg/kg			Analogous con- clusion
Other information	AOX						Does not contain any organically bound halo- gens which can contribute to the AOX value in waste water.
Other information							According to experience available to date, polycarbamide is inert and nondegradable., With water at the interface, transforms slowl with formation o CO ₂ into a firm, insoluble reaction product with a high melting poin (polycarbamide)
Toxicity to annelids	NOEC/ NOEL	14d	>1000	mg/kg	Lumbricus terrestris	OECD 207 (Earthworm, Acute Toxicity Tests)	Analogous con- clusion
Toxicity to annelids	EC50	14d	>1000	mg/kg	Eisenia foetida	OECD 207 (Earthworm, Acute Toxicity Tests)	Analogous con- clusion





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o-(p-isocyanatobenzyl)phenyl isoc	yanate						
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish	LC50	96h	>1000	mg/l	Brachydaniore- rio	OECD 203 (Fish, Acute Toxicity Test)	Analogous con- clusion
Toxicity to daphnia	EC50	24h	>1000	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immo- bilisation Test)	Analogous con- clusion
Toxicity to daphnia	NOEC/ NOEL	21d	>10	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immo- bilisation Test)	Analogous con- clusion
Toxicity to algae	ErC50	72h	>1640	mg/l	Scenedesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	Analogous con- clusion
Persistence and degradability		28d	0	%		OECD 302 C (Inherent Biodegradabil- ity - Modified MITI Test (II))	Not biodegradable, Analogous conclusion, According to experience available to date, polycarbam ide is inert and nondegradable., With water at the interface, transforms slowl with formation of CO ₂ into a firm, insoluble reaction product with a high melting poin (polycarbamide).
Bioaccumulative potential	BCF	28d	200		Cyprinus caprio	OECD 305 (Bioconcen- tration - Flow- Through Fish Test)	Not to be expected, Analogous conclusion
Mobility in soil	H (Henry)	0,0229	Pa*m³/ mol				
Results of PBT and vPvB assessment							No PBT sub- stance, No vPvB substance





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o-(p-isocyanatobenzyl)phenyl isoc	uanate						
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to bacteria	EC50	3h	>100	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	Analogous con- clusion
Other organisms	NOEC/ NOEL	14d	>1000	mg/kg	Avena sativa	OECD 208 (Terrestri- al Plants, Growth Test)	Analogous con- clusion
Other organisms	NOEC/ NOEL	14d	>1000	mg/kg	Lactuca sativa	OECD 208 (Terrestri- al Plants, Growth Test)	Analogous con- clusion
Toxicity to annelids	NOEC/ NOEL	14d	>1000	mg/kg	Eisenia foetida	OECD 207 (Earthworm, Acute Toxicity Tests)	Analogous con- clusion
Diphenylmethanediisocyanate, iso	meres and ho	mologues					
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish	LC50	96h	>1000	mg/l	Brachydaniore- rio	OECD 203 (Fish, Acute Toxicity Test)	
Toxicity to daphnia	NOEC/ NOEL	21d	>=10	mg/l	Daphnia magna	OECD 211 (Daphnia magna Repro- duction Test)	
Toxicity to daphnia	EC50	24h	>1000	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immo- bilisation Test)	
Toxicity to algae	ErC50	72h	>1640	mg/l	Scenedesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	





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Diphenylmethanediisocyanate, isor					0	T	Neterior
Toxicity / effect Persistence and degradability	Endpoint	Time 28d	Value O	Unit %	Organism activated sludge	Test method OECD 302 C (Inherent Biodegradabil- ity - Modified MITI Test (II))	Notes Not biodegradable, According to experience available to date, polycarbam ide is inert and nondegradable ., With water at the interface, transforms slowly with formation of CO ₂ into a firm, insoluble reaction product with a high melting point
Bioaccumulative potential	BCF	42d	<14		Cyprinus carpio	OECD 305 (Bioconcen- tration - Flow- Through Fish Test)	(polycarbamide). Not to be expected
Results of PBT and vPvB assessment							No vPvB sub- stance, No PBT substance
Toxicity to bacteria	EC50	3h	>100	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	
Other organisms	NOEC/ NOEL	14d	>1000	mg/kg	Avena sativa	OECD 208 (Terrestri- al Plants, Growth Test)	
Other organisms	NOEC/ NOEL	14d	>1000	mg/kg	Lactuca sativa	OECD 208 (Terrestri- al Plants, Growth Test)	
Toxicity to annelids	NOEC/ NOEL	14d	>1000	mg/kg	Lumbricus terrestris	OECD 207 (Earthworm, Acute Toxicity Tests)	





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Titanium dioxide (in powder form containing 1% or more of particles with aerodynamic diameter <= 10µm)							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish	LC50	96h	>100	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
Toxicity to daphnia	LC50	48h	>100	mg/l	Dəphniə məgnə	OECD 202 (Daphnia sp. Acute Immo- bilisation Test)	
Toxicity to algae	EC50	72h	16	mg/l	Pseudokirchneri- ella subcapitata	U.S. EPA- 600/9-78- 018	
Persistence and degradability							Not relevant for inorganic substances
Bioaccumulative potential	BCF	42d	9,6				Not to be ex- pected
Bioaccumulative potential	BCF	14d	19- 352				Oncorhynchus mykiss
Mobility in soil							Negative
Results of PBT and vPvB assessment							No PBT sub- stance, No vPvB substance
Toxicity to bacteria			>5000	mg/l	Escherichia coli		
Toxicity to bacteria	LC0	24h	>10000	mg/l	Pseudomonas fluorescens		
Toxicity to annelids	NOEC/ NOEL		>1000	mg/kg	Eisenia foetida		
Water solubility							Insoluble20°C





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2,2'-methylenediphenyl diisocyana	te						
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish	LC50	96h	>1000	mg/l	Brachydaniore- rio	OECD 203 (Fish, Acute Toxicity Test)	Analogous con- clusion
Toxicity to daphnia	NOEC/ NOEL	21d	>10	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immo- bilisation Test)	Analogous con- clusion
Toxicity to daphnia	EC50	24h	>1000	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immo- bilisation Test)	Analogous con- clusion
Toxicity to algae	EC50	72h	>1640	mg/l	Scenedesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	Analogous con- clusion
Persistence and degradability		28d	0	%	activated sludge	OECD 302 C (Inherent Biodegradabil- ity - Modified MITI Test (II))	With water at the interface, transforms slowly with formation of CO ₂ into a firm, insoluble reaction product with a high melting point (polycarbamide)., According to experience available to date, polycarbamide is inert and nondegradable., Analogous conclusion
Bioaccumulative potential	Log Pow		5,22				A notable biological accumulation potential has to be expected (LogPow > 3).
Bioaccumulative potential	BCF	28d	200		Cyprinus caprio	OECD 305 (Bioconcen- tration - Flow- Through Fish Test)	Not to be expect- ed, Analogous conclusion
Mobility in soil	H (Henry)		0,0229	Pa*m³/ mol			
Results of PBT and vPvB assessment							No PBT sub- stance, No vPvB substance





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2,2'-methylenediphenyl diisocyan	ate						
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to bacteria	EC50	3h	>100	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	Analogous con- clusion
Other organisms	NOEC/ NOEL	14d	>1000	mg/kg	Avena sativa	OECD 208 (Terrestri- al Plants, Growth Test)	Analogous con- clusion
Other organisms	NOEC/ NOEL	14d	>1000	mg/kg	Lactuca sativa	OECD 208 (Terrestri- al Plants, Growth Test)	Analogous con- clusion
Toxicity to annelids	NOEC/ NOEL	14d	>1000	mg/kg	Eisenia foetida	OECD 207 (Earthworm, Acute Toxicity Tests)	Analogous conclusion
4,4'-methylenediphenyl diisocyan	ate						
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish	LC50	96h	>1000	mg/l	Brachydaniore- rio	OECD 203 (Fish, Acute Toxicity Test)	
Toxicity to fish	LC0	96h	>1000	mg/l	Brachydaniore- rio	OECD 203 (Fish, Acute Toxicity Test)	Analogous con- clusion
Toxicity to daphnia	EC50	24h	>1000	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immo- bilisation Test)	Analogous con- clusion
Toxicity to algae	EC50	72h	1,5	mg/l		OECD 201 (Alga, Growth Inhibition Test)	
Toxicity to algae	EC50	72h	1640	mg/l	Desmodesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	Analogous con- clusion
Toxicity to algae	NOEC/ NOEL	72h	1640	mg/l	Desmodesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	Analogous con- clusion





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4,4'-methylenediphenyl diisocyan							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Persistence and degradability		28d	0	%	activated sludge	OECD 302 C (Inherent Biodegradabil- ity - Modified MITI Test (II))	With water at the interface, transforms slowly with formation of CO ₂ into a firm, insoluble reaction product with a high melting point (polycarbamide)., According to experience available to date, polycarbamide is inert and nondegradable
Persistence and degradability	BOD	28d	0	%		OECD 302 C (Inherent Biodegradabil- ity - Modified MITI Test (II))	With water at the interface, transforms slowly with formation of CO ₂ into a firm, insoluble reaction product with a high melting point (polycarbamide)., According to experience available to date, polycarbamide is inert and nondegradable
Bioaccumulative potential	BCF	28d	200		Cyprinus caprio	OECD 305 (Bioconcen- tration - Flow- Through Fish Test)	A notable biological accumulation potential has to be expected (LogPow > 3).
Bioaccumulative potential	Log Pow		4,51- 5,22			OECD 117 (Partition Coefficient (noctanol/ water) - HPLC method)	A notable biological accumulation potential has to be expected (LogPow > 3).
Results of PBT and vPvB assessment							No PBT sub- stance, No vPvB substance
Toxicity to bacteria	EC50	3h	>100	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	





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4,4'-methylenediphenyl diisocyana	te						
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to bacteria	EC50	3h	>100	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	Analogous con- clusion
Other information							Does not contain any organically bound halo- gens which can contribute to the AOX value in waste water.
Toxicity to annelids	EC50	14d	>=1000	mg/kg	Eisenia foetida	OECD 207 (Earthworm, Acute Toxicity Tests)	
Silicon dioxide							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Persistence and degradability							Inorganic products cannot be eliminated from water through biological purification methods.
Results of PBT and vPvB assessment							No PBT sub- stance, No vPvB substance
o-(p-isocyanatobenzyl)phenyl isocy	janate						
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish	LC0	96h	>1000	mg/l	Brachydaniorerio	OECD 203 (Fish, Acute Toxicity Test)	Analogous con- clusion
Toxicity to daphnia	EC50	24h	>1000	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immo- bilisation Test)	Analogous con- clusion
Toxicity to daphnia	NOEC/ NOEL	21d	>10	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immo- bilisation Test)	Analogous con- clusion
Toxicity to algae	ErC50	72h	>1640	mg/l	Scenedesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	Analogous con- clusion





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o-(p-isocyanatobenzyl)phenyl isocy	anate						
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Persistence and degradability		28d	0	%		OECD 302 C (Inherent Biodegradabil- ity - Modified MITI Test (II))	With water at the interface, transforms slow-ly with formation of CO ₂ into a firm, insoluble reaction product with a high melting point (polycarbamide)., Analogous conclusion
Bioaccumulative potential	BCF	28d	200		Cyprinus caprio	OECD 305 (Bioconcentr ation - Flow- Through Fish Test)	Not to be expect- ed, Analogous conclusion
Results of PBT and vPvB assessment							No PBT sub- stance, No vPvB substance
Toxicity to bacteria	EC50	3h	>100	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	Analogous con- clusion
Other organisms						OECD 207 (Earthworm, Acute Toxicity Tests)	Analogous conclusion
Calcium cachacata							
Calcium carbonate Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish	LC50	96h	>100	mg/l	Oncorhunchus	OECD 203	NULES
TOXICIES EO TISTI	2030	Jon	7 100	ilig/i	mykiss	(Fish, Acute Toxicity Test)	
Toxicity to fish	LC50	96h	>10000	mg/l	Oncorhynchus mykiss		
Toxicity to daphnia	EC50	48h	>1000	mg/l	Dəphniə məgnə		
Toxicity to daphnia	EC50	48h	>100	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immo- bilisation Test)	





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Bioaccumulative potential								
Toxicity to algae EC50 72h >200 mg/l Desmodermus subspicatus (Alga, Growth Inhibition Test) Persistence and degradability Fersistence and degradability Bioaccumulative potential	Calcium carbonate							
Persistence and degradability Fersistence and degradability Forecannet be illinoided profession and and and and a part of the profession and and and and and and and and and an	Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Bioaccumulative potential	Toxicity to algae	EC50	72h	>200	mg/l		(Alga, Growth	
Mobility in soil Mobility in soil Results of PBT and vPvB assessment Results of PBT and vPvB assessment with substances and very assessment with the properties with the pr	Persistence and degradability							Inorganic prod- ucts cannot be eliminated from water through biological purifi- cation methods.
Results of PBT and vPvB assessment Results of PBT and vPvB assessment substances Results of PBT and vPvB assessment substances substances Results of PBT and vPvB assessment substances substances substances assessment substances substances substances assessment substances substances substances assessment substances subst	Bioaccumulative potential							for inorganic
Bridge	Mobility in soil							for inorganic
Toxicity to bacteria BC50 Sh sh should be shaded by the s								for inorganic
Toxicity to annelids	Endocrine disrupting properties							
Diphenylmethanediisocyanate, isomeres and homologues Toxicity / effect Endpoint Time Value Unit Organism Test method Notes Toxicity to fish LC50 96h >1000 mg/l Brachydaniore-rio OECD 203 (Fish, Acute Toxicity Test) Toxicity to daphnia NOEC/NOEL 21d >=10 mg/l Daphnia magna OECD 211 (Daphnia magna Reproduction Test) Toxicity to daphnia EC50 24h >1000 mg/l Daphnia magna OECD 202 (Daphnia sp. Acute Immo-Acute Immo-Acute Immo-Acute Immo-Acute Immo-Acute Immo-Acute Immo-	Toxicity to bacteria	EC50	3h	>1000	mg/l	activated sludge	tivated Sludge, Respiration Inhibition Test (Carbon and Ammonium	
Toxicity / effect Endpoint Time Value Unit Organism Test method Notes Toxicity to fish LC50 96h >1000 mg/l Brachydaniore-rio OECD 203 (Fish, Acute Toxicity Test) Toxicity to daphnia NOEC/NOEL 21d >=10 mg/l Daphnia magna OECD 211 (Daphnia magna Reproduction Test) Toxicity to daphnia EC50 24h >1000 mg/l Daphnia magna OECD 202 (Daphnia sp. Acute Immo-Acute	Toxicity to annelids					Eisenia foetida	(Earthworm, Acute Toxicity	Negative
Toxicity to fish LC50 96h >1000 mg/l Brachydaniore- rio (Fish, Acute Toxicity Test) Toxicity to daphnia NOEC/ NOEL 21d >=10 mg/l Daphnia magna (Fish, Acute Toxicity Test) Daphnia magna Reproduction Test) Toxicity to daphnia EC50 24h >1000 mg/l Daphnia magna (DeCD 202 (Daphnia sp. Acute Immo-	Diphenylmethanediisocyanate, ison	neres and hor	nologues					
Toxicity to daphnia NOEC/ NOEL 21d >=10 mg/l Daphnia magna DECD 211 (Daphnia magna Reproduction Test) Toxicity to daphnia EC50 24h >1000 mg/l Daphnia magna OECD 202 (Daphnia sp. Acute Immo-	Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
NOEL (Daphnia magna Reproduction Test) Toxicity to daphnia EC50 24h >1000 mg/l Daphnia magna OECD 202 (Daphnia sp. Acute Immo-	Toxicity to fish	LC50	96h	>1000	mg/l		(Fish, Acute	
(Daphnia sp. Acute Immo-	Toxicity to daphnia		21d	>=10	mg/l	Daphnia magna	(Daphnia magna Repro-	
· · · · · · · · · · · · · · · · · · ·	Toxicity to daphnia	EC50	24h	>1000	mg/l	Daphnia magna	(Daphnia sp.	





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Diphenylmethanediisocyanate, isor	neres and ho	mologues					
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to algae	EC50	72h	>1640	mg/l	Desmodesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
Persistence and degradability		28d	0	%	activated sludge	OECD 301 C (Ready Bio- degradability - Modified MITI Test (I))	Not biodegradable
Bioaccumulative potential	BCF	42d	<14		Cyprinus caprio	OECD 305 (Bioconcen- tration - Flow- Through Fish Test)	A notable biological accumulation potential is not to be expected (LogPow 1-3).
Results of PBT and vPvB assessment							No PBT sub- stance, No vPvB substance
Toxicity to bacteria	EC50	3h	>100	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	
Other organisms	NOEC/ NOEL	14d	>1000	mg/kg	Eisenia foetida	OECD 207 (Earthworm, Acute Toxicity Tests)	
Other information	BOD	28d	<10	%	OECD 302 C (Inherent Biodegradability - Modified MITI Test (II))		
Other information							Does not contain any organically bound halo- gens which can contribute to the AOX value in waste water.

Section 13: Disposal considerations

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:





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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

General statements:

Transport by road/by rail (ADR/RID):

UN number or ID number: Not applicable UN proper shipping name: Not applicable Transport hazard class(es): Not applicable

Packing group: Not applicable

Environmental hazards: Not applicable Tunnel restriction code: Not applicable Classification code: Not applicable

LQ: Not applicable

Transport category: Not applicable

Transport by sea (IMDG-code):

UN number or ID number: Not applicable UN proper shipping name: Not applicable Transport hazard class(es): Not applicable

Packing group: Not applicable

Environmental hazards: Not applicable Marine Pollutant: Not applicable

EmS: Not applicable

Transport by air (IATA):

UN number or ID number: Not applicable UN proper shipping name: Not applicable Transport hazard class(es): Not applicable

Packing group: Not applicable

Environmental hazards: Not applicable

Special precautions for user:

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

Maritime transport in bulk according to IMO instruments:

Non-dangerous material according to Transport Regulations.

Section 15: Regulatory information

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

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 4,4'-methylenediphenyl diisocyanate o-(p-isocyanatobenzyl)phenyl isocyanate Diphenylmethanediisocyanate, isomeres and homologues

2,2'-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 g/l
National requirements/regulations on safety and
health protection must be applied when using
work equipment.

Chemical safety assessment:

A chemical safety assessment is not provided for mixtures.

Section 16: Other information

Revised sections: 2

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):





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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.

H351 Suspected of causing cancer by inhalation.

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.

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

ADF

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

арргох.

approximately

Art., Art. no.

Article number

ΔSTΜ

ASTM International (American Society for Testing and Materials)

ATE

Acute Toxicity Estimate

BAM

Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)

BAuA

Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)

BCF

Bioconcentration factor





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BSEF

The International Bromine Council

CAS

Chemical Abstracts Service

CLP

Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)

CMR

carcinogenic, mutagenic, reproductive toxic

DMEL

Derived Minimum Effect Level

DNEL

Derived No Effect Level

DOC

Dissolved organic carbon

e.g.

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

EbCx, EyCx, EbLx (x = 10, 50)

Effect Concentration/Level of x % on reduction of the biomass (algae, plants)

EC

European Community

ECHA

European Chemicals Agency

ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100)

Effect Concentration/Level for x % effect

EEC.

European Economic Community

EINECS

European Inventory of Existing Commercial Chemical Substances

ELINCS

European List of Notified Chemical Substances

EN

European Norms

FΡΛ

United States Environmental Protection Agency (United States of America)

ErCx, $E\mu Cx$, ErLx (x = 10, 50)

Effect Concentration/Level of x % on inhibition of the growth rate (algae, plants)

etc.

et cetera

ΕU

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





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LD50

Lethal Dose to 50% of a test population (Median Lethal Dose)

Log Kod

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

mg/kg bw

mg/kg body weight

mg/kg bw/d, mg/kg bw/day

mg/kg body weight/day

mg/kg dw

mg/kg dry weight

mg/kg wwt

mg/kg wet weight

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, NOEL

No Observed Effect Concentration/Level

OECD

Organisation for Economic Co-operation and Development

org.

organic

OSHA

Occupational Safety and Health Administration (USA)

PBT

persistent, bioaccumulative and toxic

PΕ

Polyethylene

PNEC

Predicted No Effect Concentration

ppm

parts per million

PVC

Polyvinylchloride

REACH

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

REACH-IT List-No.

6/7/8/9xx-xxx-x No. is automatically assigned, e.g. to preregistrations 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.

Telephone

TOC

Total organic carbon

UN RTDG

United Nations Recommendations on the Transport of Dangerous Goods

VOC

Volatile organic compounds

vPvE

very persistent and very bioaccumulative

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge. No responsibility.

