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Revision date / version: 02.06.2021 / 0006

Replacing version dated / version: 29.04.2019 / 0005

Valid from: 02.06.2021 PDF print date: 04.06.2021 Nail Sealing fluid NDM 1 kg

Art.: 9076413

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

1.1 Product identifier

Nail Sealing fluid NDM 1 kg

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

Seam sealant

Sector of use [SU]:

SU 0 - Other

SU 1 - Agriculture, forestry, fishery

SU19 - Building and construction work

SU22 - Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Chemical product category [PC]:

PC 1 - Adhesives, sealants

Process category [PROC]:

PROC19 - Manual activities involving hand contact

Uses advised against:

No information available at present.

1.3 Details of the supplier of the safety data sheet

BTI Befestigungstechnik GmbH & Co. KG

Salzstr. 51

74653 Ingelfingen Tel.: +49 7940 141 141 Fax: +49 7940 141 9141 Email: info@bti.de Homepage: www.bti.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 (BRC)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture





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

CIMBBILITOR WEE	01 4111 6 00 110 6 11 11 11 11 11 11 11 11 11 11 11 11 1	12:2/2000 (0221)
Hazard class	Hazard category	Hazard statement
Acute Tox.	4	H332-Harmful if inhaled.
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

H332-Harmful if inhaled. 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.

Diphenylmethanediisocyanate, isomeres and homologues

4,4'-methylenediphenyl diisocyanate

o-(p-isocyanatobenzyl)phenyl isocyanate

2,2'-methylenediphenyl diisocyanate

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 %).





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SECTION 3: Composition/information on ingredients

3.1 Substances

n.a.

3.2 Mixtures

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 %	10-<30
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)

Poly propylene glycol	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	500-039-8
CAS	25322-69-4
content %	10-<25
Classification according to Regulation (EC) 1272/2008	Acute Tox. 4, H302
(CLP), M-factors	

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 %	10-<20
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)

Diphenylmethanediisocyanate, isomeres and homologues	
Registration number (REACH)	





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Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	
CAS	9016-87-9
content %	10-<20
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)

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 %	1-<5
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)

Isophthaloyl dichloride	
Registration number (REACH)	01-2119493993-19-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	202-774-7
CAS	99-63-8
content %	<0,25
Classification according to Regulation (EC) 1272/2008	Acute Tox. 4, H312
(CLP), M-factors	Acute Tox. 3, H331
	Skin Corr. 1A, H314
	Eye Dam. 1, H318

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!





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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

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

Eve 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.

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

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

Respiratory distress

Other dangerous properties cannot be ruled out.

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

Symptomatic treatment.

Delayed effects from exposure can be expected.

In case of urge to cough - antitussive agents

In case of irritation of the lungs, perform first-aid with controlled-dosage aerosol dexamethasone.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

CO₂

Extinction powder

Water jet spray

Large fire:

Water jet spray / alcohol resistant foam

Unsuitable extinguishing media

High volume water jet

5.2 Special hazards arising from the substance or mixture





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In case of fire the following can develop:

Oxides of carbon

Oxides of nitrogen

Isocyanates

Hydrocyanic acid (hydrogen cyanide)

Toxic pyrolysis products.

Danger of bursting (explosion) when heated

5.3 Advice for firefighters

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

Ensure sufficient supply of air.

Avoid inhalation, and contact with eyes or skin.

If applicable, caution - risk of slipping.

6.2 Environmental precautions

If leakage occurs, dam up.

Resolve leaks if this possible without risk.

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

Prevent from entering drainage system.

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

6.3 Methods and material for containment and cleaning up

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth, sawdust) and dispose of according to Section 13.

Keep moist.

Do not close packing drum.

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

CO2 formation in closed tanks causes pressure to rise.

6.4 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.

7.1 Precautions for safe handling

7.1.1 General recommendations

Avoid inhalation of the vapours.

Ensure good ventilation.

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.





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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.

Do not store with oxidizing agents.

Store in a well ventilated place.

Store in a dry place.

Store at room temperature.

Keep protected from direct sunlight and temperatures over 50°C.

7.3 Specific end use(s)

Adhesive sealant

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

(B)					Content
Chemical Name	4,4'-methylen	ediphenyl diisocyanate			%:10-<30
WEL-TWA: 0,02 mg/m3 (Isocyanates,	WEL-STEL: 0,07 mg/r	n3 (Isocyanates,		
all (as -NCO))		all (as -NCO))			
Monitoring procedures:		ISO 16702 (Workplace air	quality – determinat	tion of t	otal
		isocyanate groups in air usi	•	enylpip	erazine and
		liquid chromatography) - 20			
		MDHS 25/4 (Organic isocy			
		sampling either onto 2-(1-n			-
		fibre filters followed by solvent desorption or into impingers and			
		analysis using high performance liquid chromatography) - 2015 -			
-		20 project 20, 021 (21 114 000) 2002 10 tale (1 (200 1)			
-		NIOSH 5521 (ISOCYANATES, MONOMERIC) - 1994			
		NIOSH 5522 (ISOCYANATES) - 1998			
- NIOSH 5525 (ISOCYANATES, TOTAL (N					003
	- OSHA 18 (Diisocyanates 2,4-TDI and MDI) - 1980				
- OSHA 47 (Methylene Bisphenyl Isocyanate (MDI)) - 1984					
BMGV: 1 µmol isocyanate-derived diamine/mol creatinine in urine Other information: Sen			(Isocyanates,		
(At the end of the period of e	exposure)		all (as -NCO))		
® Charles I Name	® Content				
Chemical Name	o-(p-isocyana	tobenzyl)phenyl isocyanate			%:10-<20
WEL-TWA: 0.02 mg/m3 (Isocvanates.	WEL-STEL: 0.07 mg/r	n3 (Isocvanates,		

Chemical Name o-(p-isocyanatobenzyl)phenyl isocyanate				Content %:10-<20	
WEL-TWA: 0,02 mg/m3 (Isocyanates, WEL-STEL: 0,07 mg/m3 (Isocyanates,					
all (as -NCO)) all (as -NCO))					
Monitoring procedures:					
BMGV: 1 µmol isocyanate-derived diamine/mol creatinine in urine Other information			: Sen	(Isocyanates,	
(At the end of the period of exposure) all (as -NCO))				-	
	(Isocyanates,	(Isocyanates, WEL-STEL: 0,07 mg/1 all (as -NCO)) e-derived diamine/mol creatinine in urine	(Isocyanates, WEL-STEL: 0,07 mg/m3 (Isocyanates, all (as -NCO)) e-derived diamine/mol creatinine in urine Other information	(Isocyanates, WEL-STEL: 0,07 mg/m3 (Isocyanates, all (as -NCO)) e-derived diamine/mol creatinine in urine Other information: Sen	

(B	Chemical Name	Diphenylmethanediisocyanate, isomeres and homologues	Content %:10-<20
	Chemical Name	Diplicity iniculation socyanate, isomeres and nonlologues	%:10-<20





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WEL-TWA: 0,02 mg/m3 (Isocyanates,	WEL-STEL: 0,07 mg/r	n3 (Isocyanates,			
all (as -NCO))	all (as -NCO))				
Monitoring procedures:					
BMGV: 1 µmol isocyanate-derived diamir	Sen (Isocyanates,				
(At the end of the period of exposure) all (as -NCO))					

Chemical Name	2,2'-methylene	2,2'-methylenediphenyl diisocyanate						
WEL-TWA: 0,02 mg/m3 (WEL-TWA: 0,02 mg/m3 (Isocyanates, WEL-STEL: 0,07 mg/m3 (Isocyanates,							
all (as -NCO))	l (as -NCO)) all (as -NCO))							
Monitoring procedures:	-							
BMGV: 1 µmol isocyanate	Other information	: Sen	(Isocyanates,					
(At the end of the period of e								

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





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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	

Area of application	Exposure route / Environmental compartment	Effect on health	Descript or	Value	Unit	Note
	Environment -		PNEC	1	mg/l	
	freshwater					
	Environment - marine		PNEC	0,1	mg/l	
	Environment -		PNEC	1	mg/l	
	sewage treatment					
	plant					
	Environment - soil		PNEC	1	mg/kg dw	
	Environment -		PNEC	10	mg/l	
	sporadic					
	(intermittent) release					
Consumer	Human - oral	Short term,	DNEL	20	mg/kg	
		systemic effects			bw/day	
Consumer	Human - dermal	Short term, local	DNEL	17,2	mg/cm2	
		effects		ĺ		
Consumer	Human - dermal	Short term,	DNEL	25	mg/kg	
		systemic effects			bw/d	
Consumer	Human - inhalation	Short term, local	DNEL	0,05	mg/m3	
		effects				
Consumer	Human - inhalation	Short term,	DNEL	0,05	mg/m3	
		systemic effects		, -		
Consumer	Human - inhalation	Long term, local	DNEL	0,025	mg/m3	
		effects		-,		
Consumer	Human - inhalation	Long term,	DNEL	0,025	mg/m3	
		systemic effects		-,		
Workers / employees	Human - dermal	Short term,	DNEL	50	mg/kg	
		systemic effects			bw/d	
Workers / employees	Human - dermal	Short term, local	DNEL	28,7	mg/cm2	
		effects		- 4-	8	
Workers / employees	Human - inhalation	Short term,	DNEL	0,1	mg/m3	
F - 7		systemic effects				
Workers / employees	Human - inhalation	Short term, local	DNEL	0,1	mg/m3	
		effects		~,-		
Workers / employees	Human - inhalation	Long term,	DNEL	0,05	mg/m3	
		systemic effects		3,00	-118/1110	
Workers / employees	Human - inhalation	Long term, local	DNEL	0,05	mg/m3	
sincis, simple, cos		effects		0,00		

2,2'-methylenediphenyl diisocyanate





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Area of application	Exposure route / Environmental compartment	Effect on health	Descript or	Value	Unit	Note
	Environment - freshwater		PNEC	1	mg/l	
	Environment - marine		PNEC	0,1	mg/l	
	Environment - sewage treatment plant		PNEC	1	mg/l	
	Environment - soil		PNEC	1	mg/kg dw	
	Environment - water, sporadic (intermittent) release		PNEC	10	mg/l	
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 - 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 - 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, 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	

Isophthaloyl dichloride										
Area of application	Exposure route /	Effect on health	Descript	Value	Unit	Note				
	Environmental		or							
	compartment									
	Environment -		PNEC	0,133	mg/l					
	freshwater									
	Environment - marine		PNEC	0,013	mg/l					
				3						





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	Environment - sporadic (intermittent) release		PNEC	1,337	mg/l
	Environment - sewage treatment plant		PNEC	6,171	mg/l
	Environment - sediment, freshwater		PNEC	0,636 5	mg/kg
	Environment - sediment, marine		PNEC	0,063 7	mg/kg
	Environment - soil		PNEC	0,049	mg/kg
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	3,94	mg/m3
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	4,47	mg/kg bw/d

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany). (8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (11) = Inhalable fraction (Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (Directive 2004/37/CE). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period).

(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 = "Biologischer Grenzwert" (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.

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

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

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.

Applies only if maximum permissible exposure values are listed here.

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

These are specified by e.g. EN 14042.

EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.





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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 374).

Recommended

Protective nitrile gloves (EN 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.

8.2.3 Environmental exposure controls

No information available at present.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties





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Physical state: Liquid

Colour: According to specification

Odour: Characteristic
Odour threshold: Not determined

pH-value: n.a.

Melting point/freezing point:

Initial boiling point and boiling range:

Flash point:

Evaporation rate:

Flammability (solid, gas):

Not determined

Not determined

Not determined

Not determined

Lower explosive limit: n.a. Upper explosive limit: n.a.

Vapour pressure: Not determined Vapour density (air = 1): Not determined

Density: 1,13 - 1,15 g/cm3 (20°C)

Bulk density: Not determined Solubility(ies): Not determined

Water solubility: reacts with water, Insoluble

Partition coefficient (n-octanol/water): Not determined

Auto-ignition temperature: No

Decomposition temperature: Not determined

Viscosity: 1600 - 1900 mPas (20°C) Explosive properties: Product is not explosive.

Oxidising properties: No

9.2 Other information

Miscibility: Not determined
Fat solubility / solvent: Not determined
Conductivity: Not determined
Surface tension: Not determined
Solvents content: Not determined

SECTION 10: Stability and reactivity

10.1 Reactivity

The product has not been tested.

10.2 Chemical stability

Stable with proper storage and handling.

10.3 Possibility of hazardous reactions

No decomposition if used as intended.

10.4 Conditions to avoid

Protect from humidity.

Polymerisation due to high heat is possible.

 $T \sim 260^{\circ}C$

10.5 Incompatible materials

Acids

Bases

Oxidizing agents

Amines

Alcohols

Polyhydric alcohols





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Water

Developement of:

CO2

CO2 formation in closed tanks causes pressure to rise. Pressure increase will result in danger of bursting.

10.6 Hazardous decomposition products

No decomposition when used as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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

Nail Sealing fluid NDM Art.: 9076413	1 kg		,	,		
Toxicity / effect	Endpoi nt	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral	ATE	>2000	mg/kg			calculated
route:						value
Acute toxicity, by dermal route:						n.d.a.
Acute toxicity, by inhalation:	ATE	12,43-21,5	mg/l/4h			calculated value, Vapours
Acute toxicity, by inhalation:	ATE	2,06-3,67	mg/l/4h			calculated value, Aerosol
Skin corrosion/irritation:		-				
Serious eye damage/irritation:						n.d.a.
Respiratory or skin sensitisation:						n.d.a.
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Specific target organ toxicity - single exposure (STOT-SE):						n.d.a.
Specific target organ toxicity - repeated exposure (STOT-RE):						n.d.a.
Aspiration hazard:						n.d.a.
Symptoms:						n.d.a.
Other information:						Classificati n according to
						calculation procedure.

4,4'-methylenediphenyl diisocyanate





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Toxicity / effect	Endpoi nt	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)	Analogous conclusion
Acute toxicity, by dermal route:	LD50	>9400	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	Analogous conclusion
Acute toxicity, by inhalation:	ATE	1,5	mg/l/4h			Aerosol, Expert judgement.
Acute toxicity, by inhalation:	LC50	0,368	mg/l/4h	Rat	OECD 403 (Acute Inhalation Toxicity)	Aerosol, Does not conform with EU classification
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosio n)	Skin Irrit. 2, Analogous conclusion
Respiratory or skin				Guinea pig	,	Yes
sensitisation:						(inhalation)
Respiratory or skin				Mouse	OECD 429 (Skin	Skin Sens. 1
sensitisation:					Sensitisation - Local Lymph Node Assay)	
Germ cell mutagenicity:				Rat	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative
Germ cell mutagenicity:				Rat	OECD 489 (In Vivo Mammalian Alkaline Comet Assay)	Negative
Germ cell mutagenicity:				Salmonella typhimuri um	OECD 471 (Bacterial Reverse Mutation Test)	Negative, Analogous conclusion
Carcinogenicity:				Rat	OECD 453 (Combined Chronic Toxicity/Carcinoge nicity Studies)	Aerosol, Analogous conclusion, Carc. 2
Reproductive toxicity:	NOAEL	4	mg/m3	Rat	OECD 414 (Prenatal Developmental Toxicity Study)	Aerosol, Analogous conclusion





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Specific target organ toxicity - repeated exposure (STOT-RE):	NOAEL	0,2	mg/m3	Rat	OECD 453 (Combined Chronic Toxicity/Carcinoge nicity Studies)	Aerosol, Analogous conclusion
Specific target organ toxicity - repeated exposure (STOT-RE):	LOAEL	1	mg/m3	Rat	OECD 453 (Combined Chronic Toxicity/Carcinoge nicity Studies)	Aerosol, Analogous conclusion
Specific target organ toxicity - single exposure (STOT-SE), inhalative:						Target organ(s): respiratory system, Irritation of the respiratory tract
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:						Target organ(s): respiratory system, Positive

Poly propylene glycol Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes
v	nt					
Acute toxicity, by oral	LD50	>500 -	mg/kg	Rat		
route:		<2000				
Acute toxicity, by	LD50	>3000	mg/kg	Rabbit	OECD 402 (Acute	Analogous
dermal route:					Dermal Toxicity)	conclusion
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Not irritant
					Dermal	
					Irritation/Corrosio	
					n)	
Serious eye				Rabbit	OECD 405 (Acute	Not irritant
damage/irritation:					Eye	
					Irritation/Corrosio	
					n)	
Respiratory or skin				Mouse	OECD 429 (Skin	Not
sensitisation:					Sensitisation -	sensitizising
					Local Lymph	
					Node Assay)	
Germ cell mutagenicity:				Salmonella	OECD 471	Negative
				typhimuri	(Bacterial Reverse	
				um	Mutation Test)	
Germ cell mutagenicity:					OECD 476 (In	NegativeChi
					Vitro Mammalian	nese hamster
					Cell Gene	
					Mutation Test)	





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Reproductive toxicity	NOAEL	1000	mg/kg	Rat	OECD 421	Female,
(Developmental					(Reproduction/Dev	Negative,
toxicity):					elopmental	Analogous
					Toxicity	conclusion
					Screening Test)	
Reproductive toxicity	NOAEL	1000	mg/kg	Rat	OECD 421	Analogous
(Effects on fertility):					(Reproduction/Dev	conclusion
					elopmental	
					Toxicity	
					Screening Test)	
Specific target organ	NOAEL	>= 1000	mg/kg	Rat	OECD 407	Analogous
toxicity - repeated					(Repeated Dose	conclusionor
exposure (STOT-RE):					28-Day Oral	al exposure
					Toxicity Study in	
					Rodents)	
Symptoms:						annoyance,
						cramps,
						trembling

Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes
-	nt			-		
Acute toxicity, by oral route:	LD50	>2000	mg/kg	Rat	Regulation (EC) 440/2008 B.1 (ACUTE ORAL TOXICITY)	Analogous conclusion
Acute toxicity, by dermal route:	LD50	>9400	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	Analogous conclusion
Acute toxicity, by inhalation:	LC50	0,387	mg/l/4h	Rat		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
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosio n)	Not irritant, Analogous conclusion, Does not conform with EU classification





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Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	No (skin contact), Analogous conclusion
Respiratory or skin sensitisation:				Guinea pig		Yes (inhalation), Analogous conclusion
Respiratory or skin sensitisation:				Mouse	OECD 429 (Skin Sensitisation - Local Lymph Node Assay)	Yes (skin contact), Analogous conclusion
Germ cell mutagenicity:				Salmonella typhimuri um	OECD 471 (Bacterial Reverse Mutation Test)	Negative
Germ cell mutagenicity:				Rat	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative, Analogous conclusion
Carcinogenicity:				Rat	OECD 453 (Combined Chronic Toxicity/Carcinoge nicity Studies)	Aerosol, Analogous conclusion, Carc. 2
Reproductive toxicity:	NOAEL	4	mg/kg	Rat	OECD 414 (Prenatal Developmental Toxicity Study)	Aerosol, Analogous conclusion
Specific target organ toxicity - repeated exposure (STOT-RE):	LOAEL	1	mg/m3	Rat	OECD 453 (Combined Chronic Toxicity/Carcinoge nicity Studies)	Aerosol, Analogous conclusion
Specific target organ toxicity - repeated exposure (STOT-RE):	NOAEL	0,2	mg/m3	Rat	OECD 453 (Combined Chronic Toxicity/Carcinoge nicity Studies)	Aerosol, Analogous conclusion
Symptoms:					•	mucous membrane irritation, breathing difficulties, coughing, asthmatic symptoms





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Specific target organ toxicity - single exposure (STOT-SE), inhalative:		Target organ(s): respiratory system, Irritation of the respiratory
		tract
Specific target organ		Target
toxicity - repeated		organ(s):
exposure (STOT-RE),		respiratory
inhalat.:		system,
		Positive

Toxicity / effect	Endpoi nt	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	0,31	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			Expert judgement.
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosio n)	Skin Irrit. 2
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosio n)	Not irritant, Analogous conclusion, Does not conform with EU classification
Respiratory or skin sensitisation:				Mouse	OECD 429 (Skin Sensitisation - Local Lymph Node Assay)	Yes (skin contact), Analogous conclusion
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	No (skin contact)
Respiratory or skin sensitisation:				Rat		Yes (inhalation)





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Germ cell mutagenicity:				Rat	OECD 474	Negative,
					(Mammalian	Analogous
					Erythrocyte	conclusion
					Micronucleus	
					Test)	
Germ cell mutagenicity:				Salmonella	OECD 471	Negative
				typhimuri	(Bacterial Reverse	
				um	Mutation Test)	
Carcinogenicity:				Rat	OECD 453	Aerosol,
					(Combined	Limited
					Chronic	evidence of
					Toxicity/Carcinoge	a
					nicity Studies)	carcinogenic
						effect.
Reproductive toxicity:	NOAEL	4	mg/m3	Rat	OECD 414	Aerosol,
					(Prenatal	Negative
					Developmental	
					Toxicity Study)	
Specific target organ	LOAEL	1		Rat	OECD 453	Aerosol,
toxicity - repeated					(Combined	Analogous
exposure (STOT-RE):					Chronic	conclusion
					Toxicity/Carcinoge	
					nicity Studies)	
Specific target organ	NOAEL	0,2		Rat	OECD 453	Aerosol,
toxicity - repeated					(Combined	Analogous
exposure (STOT-RE):					Chronic	conclusion
					Toxicity/Carcinoge	
					nicity Studies)	
Aspiration hazard:						Negative
Specific target organ						Target
toxicity - single						organ(s):
exposure (STOT-SE),						respiratory
inhalative:						system, May
						cause
						respiratory
						irritation.
Specific target organ						Target
toxicity - repeated						organ(s):
exposure (STOT-RE),						respiratory
inhalat.:						system,
						Positive

2,2'-methylenediphenyl diisocyanate									
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes			
	nt								
Acute toxicity, by oral	LD50	>2000	mg/kg	Rat	Regulation (EC)	Analogous			
route:					440/2008 B.1	conclusion			
					(ACUTE ORAL				
					TOXICITY)				
Acute toxicity, by	LD50	>9400	mg/kg	Rabbit	OECD 402 (Acute	Analogous			
dermal route:					Dermal Toxicity)	conclusion			





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Acute toxicity, by inhalation:	LC50	0,527	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			Aerosol, Expert judgement
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosio n)	Skin Irrit. 2
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosio n)	Slightly irritant
Respiratory or skin sensitisation:				Guinea pig		Yes (inhalation), Analogous conclusion
Respiratory or skin sensitisation:				Mouse	OECD 429 (Skin Sensitisation - Local Lymph Node Assay)	Yes (skin contact)
Germ cell mutagenicity:				Salmonella typhimuri um	OECD 471 (Bacterial Reverse Mutation Test)	Negative
Germ cell mutagenicity:				Rat	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative, Analogous conclusion
Carcinogenicity:				Rat	OECD 453 (Combined Chronic Toxicity/Carcinoge nicity Studies)	Limited evidence of a carcinogenic effect., Analogous conclusion, Aerosol
Reproductive toxicity:	NOAEL	4	mg/m3	Rat	OECD 414 (Prenatal Developmental Toxicity Study)	No indications of such an effect., Aerosol, Analogous conclusion





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Symptoms:						respiratory distress, coughing, mucous membrane irritation
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAEL	0,2	mg/m3	Rat	OECD 453 (Combined Chronic Toxicity/Carcinoge nicity Studies)	Aerosol, Target organ(s): respiratory system, Analogous conclusion
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	LOAEL	1	mg/m3	Rat	OECD 453 (Combined Chronic Toxicity/Carcinoge nicity Studies)	Aerosol, Target organ(s): respiratory system, Analogous conclusion

Isophthaloyl dichloride Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes
•	nt			9		
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat		
Acute toxicity, by dermal route:	LD50	1410	mg/kg	Rabbit		
Acute toxicity, by inhalation:	LC50	0,7	mg/l/4h	Rat		Aerosol, Analogous conclusion
Skin corrosion/irritation:				Rabbit		Corrosive, Analogous conclusion
Serious eye damage/irritation:				Rabbit		Corrosive, Analogous conclusion
Respiratory or skin sensitisation:				Guinea pig		No (skin contact)
Germ cell mutagenicity:					OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative, Analogous conclusion
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAEL	474	mg/kg	Rat	OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)	Analogous conclusion





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SECTION 12: Ecological information

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

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Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to							n.d.a.
fish:							
12.1. Toxicity to							n.d.a.
daphnia:							,
12.1. Toxicity to							n.d.a.
algae:							****
12.2. Persistence							With water
and degradability:							at the
							interface,
							transforms
							slowly with
							formation of
							CO2 into a
							firm,
							insoluble
							reaction
							product with
							a high
							melting
							point
							(polycarbam
							de).
							According
							to
							experience
							available to
							date,
							polycarbami
							de 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							
assessment							
12.6. Other							n.d.a.
adverse effects:							
Other information:	AOX						According
							to the recipe
							contains no
							AOX.





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Other information:	DOC			DOC-
				elimination
				degree(comp
				lexing
				organic
				substance)>=
				80%/28d:
				n.a.

4,4'-methylenediph Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Other information:					8		According
							to
							experience
							available to
							date,
							polycarbami
							de 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
							(polycarbami
							de).
12.1. Toxicity to	LC50	96h	>1000	mg/l	Brachydanio	OECD 203	Analogous
fish:					rerio	(Fish, Acute	conclusion
						Toxicity Test)	





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12.2. Persistence and degradability:		28d	0	%		OECD 302 C (Inherent Biodegradabil ity - Modified MITI Test (II))	Not biodegradabl e, With water at the interface, transforms slowly with formation of CO2 into a firm, insoluble reaction product with a high melting point (polycarbami de)., According to experience available to date, polycarbami de is inert and nondegradable., Analogous conclusion
12.1. Toxicity to daphnia:	EC50	24h	>1000	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisatio n Test)	Analogous conclusion
12.1. Toxicity to daphnia:	NOEC/NO EL	21d	>10	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisatio n Test)	Analogous conclusion
12.3. Bioaccumulative potential:	Log Pow		5,22				A notable biological accumulation potential has to be expected (LogPow > 3).





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12.1. Toxicity to algae:	ErC50	72h	>1640	mg/l	Desmodesmus 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	>100	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	Analogous conclusion
Other organisms:	NOEC/NO EL	14d	>1000	mg/kg	Lactuca sativa	OECD 208 (Terrestrial Plants, Growth Test)	Analogous conclusion
Other organisms:	NOEC/NO EL	14d	>1000	mg/kg	Avena sativa	OECD 208 (Terrestrial Plants, Growth Test)	Analogous conclusion
Other information:	H (Henry)		0,022 9				
Toxicity to annelids:	NOEC/NO EL	14d	> 1000	mg/kg	Lumbricus terrestris	OECD 207 (Earthworm, Acute Toxicity Tests)	Analogous conclusion
Toxicity to annelids:	EC50	14d	>1000	mg/kg	Eisenia foetida	OECD 207 (Earthworm, Acute Toxicity Tests)	Analogous conclusion





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Poly propylene gly	Poly propylene glycol											
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes					
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance					
12.1. Toxicity to fish:	LC50	96h	>100	mg/l	Poecilia reticulata	OECD 203 (Fish, Acute Toxicity Test)	Substance					
12.1. Toxicity to daphnia:	EC50	48h	>100	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisatio n Test)						
12.1. Toxicity to daphnia:	NOEC/NO EL	21d	>=10	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproduction Test)	Analogous conclusion					
12.1. Toxicity to algae:	EC0	72h	>= 100	mg/l	Desmodesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)						
12.2. Persistence and degradability:		28d	>60	%		OECD 301 F (Ready Biodegradabil ity - Manometric Respirometry Test)	Readily biodegradabl e					
Toxicity to bacteria:	EC50	3h	>1000	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	Analogous conclusion					

o-(p-isocyanatobenzyl)phenyl isocyanate											
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes				
12.1. Toxicity to	LC50	96h	>1000	mg/l	Brachydanio	OECD 203	Analogous				
fish:					rerio	(Fish, Acute	conclusion				
						Toxicity Test)					
12.1. Toxicity to	EC50	24h	>1000	mg/l	Daphnia	OECD 202	Analogous				
daphnia:					magna	(Daphnia sp.	conclusion				
						Acute					
						Immobilisatio					
						n Test)					





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12.1. Toxicity to daphnia:	NOEC/NO EL	21d	>10	mg/l	Daphnia magna	OECD 202 (Daphnia sp.	Analogous conclusion
аарина.	LL				magna	Acute Immobilisatio	conclusion
						n Test)	
12.1. Toxicity to	ErC50	72h	>1640	mg/l	Scenedesmus	OECD 201	Analogous
algae:					subspicatus	(Alga, Growth	conclusion
						Inhibition	
						Test)	
12.2. Persistence		28d	0	%		OECD 302 C	Not
and degradability:				, ,		(Inherent	biodegradabl
						Biodegradabil	e,
						ity - Modified	Analogous
						MITI Test	conclusion,
						(II))	According
							to .
							experience available to
							date,
							polycarbami
							de 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
							(polycarbami
12.3.	BCF	28d	200		Cyprinus	OECD 305	de). Not to be
Bioaccumulative	BCI.	20 u	200		caprio	(Bioconcentra	expected,
potential:					Supiro	tion - Flow-	Analogous
L 2000						Through Fish	conclusion
						Test)	
12.5. Results of							No PBT
PBT and vPvB							substance,
assessment							No vPvB
							substance





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Toxicity to	EC50	3h	>100	mg/l	activated	OECD 209	Analogous
bacteria:				_	sludge	(Activated	conclusion
						Sludge,	
						Respiration	
						Inhibition	
						Test (Carbon	
						and	
						Ammonium	
						Oxidation))	
Other organisms:	NOEC/NO	14d	>1000	mg/kg	Avena sativa	OECD 208	Analogous
	EL					(Terrestrial	conclusion
						Plants,	
						Growth Test)	
Other organisms:	NOEC/NO	14d	>1000	mg/kg	Lactuca sativa	OECD 208	Analogous
	EL					(Terrestrial	conclusion
						Plants,	
						Growth Test)	
Other information:	H (Henry)		0,022				
			9				
Toxicity to	NOEC/NO	14d	>1000	mg/kg	Eisenia	OECD 207	Analogous
annelids:	EL				foetida	(Earthworm,	conclusion
						Acute	
						Toxicity	
						Tests)	

Diphenylmethaned	liisocyanate, i	someres	and hom	ologues			
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Other organisms:	NOEC/NO	14d	>1000	mg/kg	Avena sativa	OECD 208	
	EL					(Terrestrial	
						Plants,	
						Growth Test)	
12.1. Toxicity to	LC50	96h	>1000	mg/l	Brachydanio	OECD 203	
fish:					rerio	(Fish, Acute	
						Toxicity Test)	
12.1. Toxicity to	NOEC/NO	21d	>10	mg/l	Daphnia	OECD 202	
daphnia:	EL				magna	(Daphnia sp.	
						Acute	
						Immobilisatio	
						n Test)	
12.1. Toxicity to	EC50	24h	>1000	mg/l	Daphnia	OECD 202	
daphnia:					magna	(Daphnia sp.	
						Acute	
						Immobilisatio	
						n Test)	
12.1. Toxicity to	ErC50	72h	>1640	mg/l	Scenedesmus	OECD 201	
algae:					subspicatus	(Alga,	
						Growth	
						Inhibition	
						Test)	





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12.2. Persistence and degradability:	P.C.F.	28d	0	%	activated sludge	OECD 302 C (Inherent Biodegradabil ity - Modified MITI Test (II))	Not biodegradabl e, According to experience available to date, polycarbami de 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 (polycarbami de).
12.3. Bioaccumulative potential:	BCF	42d	<14		Cyprinus carpio	OECD 305 (Bioconcentra tion - Flow- Through Fish Test)	Not to be expected
12.5. Results of PBT and vPvB assessment							Negative
Toxicity to bacteria:	EC50	3h	>100	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	
Other organisms:	NOEC/NO EL	14d	>1000	mg/kg	Lactuca sativa	OECD 208 (Terrestrial Plants, Growth Test)	





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Toxicity to annelids:	NOEC/NO EL	14d	>1000	mg/kg	Lumbricus terrestris	OECD 207 (Earthworm,
						Acute
						Toxicity Tests)

2,2'-methylenediph	enyl diisocya	nate					
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.5. Results of							No PBT
PBT and vPvB							substance,
assessment							No vPvB
							substance
Other information:	H (Henry)		0,022				
			9				
12.1. Toxicity to	LC50	96h	>1000	mg/l	Brachydanio	OECD 203	Analogous
fish:					rerio	(Fish, Acute	conclusion
						Toxicity Test)	
12.1. Toxicity to	NOEC/NO	21d	>10	mg/l	Daphnia	OECD 202	Analogous
daphnia:	EL				magna	(Daphnia sp.	conclusion
						Acute	
						Immobilisatio	
						n Test)	
12.1. Toxicity to	EC50	24h	>1000	mg/l	Daphnia	OECD 202	Analogous
daphnia:					magna	(Daphnia sp.	conclusion
						Acute	
						Immobilisatio	
						n Test)	
12.1. Toxicity to	EC50	72h	>1640	mg/l	Scenedesmus	OECD 201	Analogous
algae:					subspicatus	(Alga,	conclusion
						Growth	
						Inhibition	
						Test)	





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12.2. 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 CO2 into a firm, insoluble reaction product with a high melting point (polycarbami de)., According to experience available to date, polycarbami de is inert and nondegradable., Analogous conclusion
12.3. Bioaccumulative potential:	Log Pow		5,22				A notable biological accumulation potential has to be expected (LogPow > 3).
12.3. Bioaccumulative potential:	BCF	28d	200		Cyprinus caprio	OECD 305 (Bioconcentra tion - Flow- Through Fish Test)	Not to be expected, Analogous conclusion
Toxicity to bacteria:	EC50	3h	>100	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	Analogous conclusion





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Other organisms:	NOEC/NO	14d	>1000	mg/kg	Avena sativa	OECD 208	Analogous
	EL					(Terrestrial	conclusion
						Plants,	
						Growth Test)	
Other organisms:	NOEC/NO	14d	>1000	mg/kg	Lactuca sativa	OECD 208	Analogous
	EL					(Terrestrial	conclusion
						Plants,	
						Growth Test)	
Toxicity to	NOEC/NO	14d	>1000	mg/kg	Eisenia	OECD 207	Analogous
annelids:	EL				foetida	(Earthworm,	conclusion
						Acute	
						Toxicity	
						Tests)	

Isophthaloyl dichloride							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to	LC50	96h	134	mg/l	Pimephales		
fish:					promelas		
12.1. Toxicity to	EC50	48h	>952	mg/l	Daphnia		Analogous
daphnia:					magna		conclusion
12.1. Toxicity to	EC50	96h	>996	mg/l	Selenastrum		Analogous
algae:					capricornutum		conclusion

SECTION 13: Disposal considerations

13.1 Waste treatment methods

For the substance / mixture / residual amounts

EC disposal code no.:

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

Owing to the user's specific conditions for use and disposal, other waste codes may be

allocated under certain circumstances. (2014/955/EU)

08 04 09 waste adhesives and sealants containing organic solvents or other hazardous substances

08 05 01 waste isocyanates

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

E.g. suitable incineration plant.

Hardened product:

E.g. dispose at suitable refuse site.

For contaminated packing material

Pay attention to local and national official regulations.

Empty container completely.

Uncontaminated packaging can be recycled.

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

15 01 02 plastic packaging

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





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General statements

14.1. UN number: n.a.

Transport by road/by rail (ADR/RID)

14.2. UN proper shipping name:

14.3. Transport hazard class(es):n.a.14.4. Packing group:n.a.Classification code:n.a.LO:n.a.

14.5. Environmental hazards: Not applicable

Tunnel restriction code:

Transport by sea (IMDG-code)

14.2. UN proper shipping name:

14.3. Transport hazard class(es):n.a.14.4. Packing group:n.a.Marine Pollutant:n.a

14.5. Environmental hazards: Not applicable

Transport by air (IATA)

14.2. UN proper shipping name:

14.3. Transport hazard class(es): n.a. 14.4. Packing group: n.a.

14.5. Environmental hazards: Not applicable

14.6. Special precautions for user

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

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Non-dangerous material according to Transport Regulations.

SECTION 15: Regulatory information

15.1 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

REGULATION (EC) No 648/2004

n.a.

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.





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SECTION 16: Other information

Revised sections: 2, 15

These details refer to the product as it is delivered.

Employee instruction/training in handling hazardous materials is required.

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

Classification in accordance with regulation (EC)	Evaluation method used
No. 1272/2008 (CLP)	
Acute Tox. 4, H332	Classification according to calculation procedure.
Eye Irrit. 2, H319	Classification according to calculation procedure.
STOT SE 3, H335	Classification according to calculation procedure.
Skin Irrit. 2, H315	Classification according to calculation procedure.
Resp. Sens. 1, H334	Classification according to calculation procedure.
Skin Sens. 1, H317	Classification according to calculation procedure.
Carc. 2, H351	Classification according to calculation procedure.
STOT RE 2, H373	Classification according to calculation procedure.

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).

H314 Causes severe skin burns and eye damage.

H373 May cause damage to organs through prolonged or repeated exposure by inhalation.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

H351 Suspected of causing cancer.

Acute Tox. — Acute toxicity - inhalation

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 - oral

Acute Tox. — Acute toxicity - dermal

Skin Corr. — Skin corrosion

Eye Dam. — Serious eye damage



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Any abbreviations and acronyms used in this document:

acc., acc. to according, according to

ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European

Agreement concerning the International Carriage of Dangerous Goods by Road)

AOX Adsorbable organic halogen compounds

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

ASTM ASTM International (American Society for Testing and Materials)

ATE Acute Toxicity Estimate

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

BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and

Safety, Germany)

BSEF The International Bromine Council

bw body weight

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

dw dry weight

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

EC European CommunityECHA European Chemicals AgencyEEC European Economic Community

EINECS European Inventory of Existing Commercial Chemical Substances

ELINCS European List of Notified Chemical Substances

EN European Norms

EPA United States Environmental Protection Agency (United States of America)

etc. et cetera EU European Union

EVAL Ethylene-vinyl alcohol copolymer

Fax. Fax number gen. general

GHS Globally Harmonized System of Classification and Labelling of Chemicals

GWP Global warming potential

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

IUPACInternational Union for Pure Applied Chemistry

LC50 Lethal Concentration to 50 % of a test population

LD50 Lethal Dose to 50% of a test population (Median Lethal Dose)

LQ Limited Quantities

MARPOL International Convention for the Prevention of Marine Pollution from Ships

n.a. not applicable





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n.av. not availablen.c. not checkedn.d.a. no data available

OECD Organisation for Economic Co-operation and Development

org. organic

PBT persistent, bioaccumulative and toxic

PE Polyethylene

PNEC Predicted No Effect Concentration

ppm parts per million PVC Polyvinylchloride

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 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 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

UN RTDG United Nations Recommendations on the Transport of Dangerous Goods

VOC Volatile organic compounds

vPvB very persistent and very bioaccumulative

wwt weight

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.