

Page 1 of 17 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 10.08.2023 / 0001 Replacing version dated / version: 10.08.2023 / 0001 Valid from: 10.08.2023 PDF print date: 11.08.2023 Rigidur Estrichkleber

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

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

1.1 Product identifier

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Rigidur Estrichkleber

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

Uses advised against: No information available at present.

1.3 Details of the supplier of the safety data sheet

Saint-Gobain Rigips GmbH Schanzenstraße 84 D-40549 Düsseldorf Tel.: +49 (0)211 5503 - 0 Mail: forschung-entwicklung@rigips.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:

+49 (0) 30 / 30686-700 (Berlin)

Telephone number of the company in case of emergencies:

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

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

2.2 Label elements

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



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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

2.3 Other hazards

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

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

The mixture does not contain any substance with endocrine disrupting properties (< 0,1 %).

SECTION 3: Composition/information on ingredients

3.1 Substances

n.a. 3.2 Mixtures

9016-87-9
25-50
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)
Skin Irrit. 2, H315: >=5 %
Eye Irrit. 2, H319: >=5 %
Resp. Sens. 1, H334: >=0,1 %
STOT SE 3, H335: >=5 %



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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-	Eye Irrit. 2, H319
factors	

Impurities, test data and additional information may have been taken into account in classifying and labelling the product. 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

4.1 Description of first aid measures

First-aiders should ensure they are protected!

Never pour anything into the mouth of an unconscious person!

Inhalation

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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.

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 In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours. **4.3 Indication of any immediate medical attention and special treatment needed**

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

Pulmonary oedema prophylaxis

Medical supervision necessary due to possibility of delayed reaction.

SECTION 5: Firefighting measures



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5.1 Extinguishing media Suitable extinguishing media

CO2

Extinction powder Water jet spray Foam

Unsuitable extinguishing media

High volume water jet

5.2 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 Danger of bursting (explosion) when heated **5.3 Advice for firefighters** For personal protective equipment see Section 8. In case of fire and/or explosion do not breathe fumes. Protective respirator with independent air supply. According to size of fire Full protection, if necessary.

Cool container at risk with water.

Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination. Ensure sufficient ventilation, remove sources of ignition.

Avoid dust formation with solid or powder products.

Leave the danger zone if possible, use existing emergency plans if necessary.

Ensure sufficient supply of air.

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

6.1.2 For emergency responders

See section 8 for suitable protective equipment and material specifications.

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.

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

Keep moist.

Do not close packing drum.

CO2 formation in closed tanks causes pressure to rise.

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



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

7.1 Precautions for safe handling 7.1.1 General recommendations

Ensure good ventilation.

Avoid inhalation of the vapours.

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

Avoid contact with eyes or skin.

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

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Observe directions on label and instructions for use.

Use working methods according to operating instructions.

7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

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

7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals.

Not to be stored in gangways or stair wells.

Store product closed and only in original packing.

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

Only store at temperatures from 15°C to 25°C.

Store in a dry place.

7.3 Specific end use(s)

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 controls/personal protection

8.1 Control parameters

Image: Chemical Name Diphenylmethanediisocyanate, isomeres and homologues							
WEL-TWA: 0,02 mg/m3 (Isocyanates, all (as -							
NCO))	NCO))						
Monitoring procedures:							
BMGV: 1 µmol isocyanate-derived diamine/mol cre	eatinine in urine (At the end of Other information:	Sen (Isocyanates, all (as -					
the period of exposure)	NCO))						

Diphenylmethanediisocyanate, isomeres and homologues								
Area of application	Exposure route / Environmental	Effect on health	Descripto r	Value	Unit	Note		
	compartment		•					
	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			
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			

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Area of application	Exposure route / Environmental compartment	Effect on health	Descripto r	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, local 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, local effects	DNEL	20	mg/m3	

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).

(8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/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 nonmetrological 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

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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.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	Brown
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:	Flammable
Lower explosion limit:	There is no information available on this parameter.
Upper explosion limit:	There is no information available on this parameter.
Flash point:	111 °C
Auto-ignition temperature:	n.a.
Decomposition temperature:	There is no information available on this parameter.
pH:	Mixture reacts with water.
Kinematic viscosity:	There is no information available on this parameter.
Solubility:	Not miscible
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Partition coefficient n-octanol/water (log value): Vapour pressure: Density and/or relative density: Relative vapour density: Particle characteristics:

9.2 Other information

Explosives: Oxidising liquids: Bulk density:

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Does not apply to mixtures. There is no information available on this parameter. 1,12 g/cm3 (20°C) There is no information available on this parameter. Does not apply to liquids.

Product is not explosive. No n.a.

SECTION 10: Stability and reactivity

10.1 Reactivity

reacts with water

10.2 Chemical stability

Stable with proper storage and handling.

10.3 Possibility of hazardous reactions

Exothermic reaction possible with: Alcohols Amines Bases Acids Water Developement of: Carbon dioxide CO2 formation in closed tanks causes pressure to rise. Pressure increase will result in danger of bursting. 10.4 Conditions to avoid

See also section 7. Protect from humidity. Polymerisation due to high heat is possible. T > 260°C

10.5 Incompatible materials

See also section 7. Acids Bases Amines Alcohols Water **10.6 Hazardous decomposition products** See also section 5.2

No decomposition when used as directed.

SECTION 11: Toxicological information

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

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

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:						n.d.a.
Acute toxicity, by dermal						n.d.a.
route:						
Acute toxicity, by inhalation:	ATE	>20	mg/l/4h			calculated
						value, Vapours
Skin corrosion/irritation:						n.d.a.
Serious eye						n.d.a.
damage/irritation:						



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Respiratory or skin sensitisation:						n.d.a.
Germ cell mutagenicity:						n.d.a. n.d.a.
Carcinogenicity: Reproductive toxicity:						n.d.a. n.d.a.
Specific target organ toxicity - single exposure (STOT-SE):						n.d.a.
Specific target organ toxicity - repeated exposure (STOT-						n.d.a.
RE): Aspiration hazard:						n.d.a.
Symptoms:						n.d.a.
Diphenylmethanediisocyana				Ormoniom	To at weath a d	Nataa
Toxicity / effect Acute toxicity, by oral route:	Endpoint LD50	Value >5000	Unit	Organism Rat	Test methodOECD 401 (Acute	Notes
	LD50	>5000	mg/kg	Rabbit	OECD 401 (Acute Oral Toxicity) OECD 402 (Acute	
Acute toxicity, by dermal route:			mg/kg		Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	0,31-0,49	mg/l/4h	Rat	OECD 403 (Acute	Aerosol, Does
					Inhalation Toxicity)	not conform with EU classification.
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Skin Irrit. 2
					Dermal Irritation/Corrosion)	
Serious eye				Rabbit	OECD 405 (Acute	Eye Irrit. 2
damage/irritation:					Eye Irritation/Corrosion)	,
Respiratory or skin				Mouse	OECD 429 (Skin	Yes (skin
sensitisation:					Sensitisation - Local Lymph Node Assay)	contact), Analogous conclusion
Respiratory or skin				Guinea pig	OECD 406 (Skin	Yes (skin
sensitisation:					Sensitisation)	contact)
Respiratory or skin sensitisation:				Rat		Yes (inhalation
Germ cell mutagenicity:				Rat	OECD 474	Negative,
6					(Mammalian	Analogous
					Erythrocyte Micronucleus Test)	conclusion
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative
				typhimurium	Reverse Mutation Test)	
Reproductive toxicity:	NOAEL	4	mg/m3	Rat	OECD 414 (Prenatal Developmental	Aerosol, Negative
2 • • • •					Toxicity Study)	
Carcinogenicity:				Rat	OECD 453 (Combined Chronic Toxicity/Carcinogenicit	Aerosol, Limited evidence of a
Specific target organ toxicity - single exposure (STOT-SE), inhalative:					y Studies)	carcinogenic effect. Target organ(s): respiratory system, May cause
						respiratory irritation.



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Specific target organ toxicity - repeated exposure (STOT- RE), inhalat.:						Target organ(s): respiratory system
Symptoms:						breathing difficulties
Specific target organ toxicity - repeated exposure (STOT- RE), inhalat.:	LOAEL	1	mg/m3	Rat	OECD 453 (Combined Chronic Toxicity/Carcinogenicit y Studies)	Aerosol, Analogous conclusion
Specific target organ toxicity - repeated exposure (STOT- RE), inhalat.:	NOAEL	0,2	mg/m3	Rat	OECD 453 (Combined Chronic Toxicity/Carcinogenicit y Studies)	Aerosol, Analogous conclusion

Toxicity / effect	Endpoint	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	LD50	>2000	mg/kg	Rabbit	OECD 402 (Acute	
route:		- 2000			Dermal Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Not irritant
					Dermal	
					Irritation/Corrosion)	
Serious eye				Rabbit	OECD 405 (Acute	Irritant
damage/irritation:					Eve	
aamage, maarem					Irritation/Corrosion)	
Respiratory or skin				Human being		No (skin
sensitisation:				i iaman boing		contact)
Germ cell mutagenicity:					OECD 471 (Bacterial	Negative
Contracting of the contraction o					Reverse Mutation	rioganio
					Test)	
Germ cell mutagenicity:					OECD 474	Negative
Contraction matagomony.					(Mammalian	lioganio
					Erythrocyte	
					Micronucleus Test)	
Germ cell mutagenicity:					OECD 482 (Gen. Tox.	Negative
Certificer matagementy.					- DNA Damage and	Negative
					Repair, Unscheduled	
					DNA Synthesis in	
					Mammalian Cells In	
					Vitro)	
Carcinogenicity:				Mouse	OECD 451	Negative
earonogementy.				Modoo	(Carcinogenicity	Nogalivo
					Studies)	
Reproductive toxicity:	NOAEL	1000	mg/kg	Rat	OECD 414 (Prenatal	Negative
Reproductive toxicity.	NOVEL	1000	iiig/kg	T Cat	Developmental	Nogalivo
					Toxicity Study)	
Aspiration hazard:						No
Symptoms:						breathing
eymptomo:						difficulties,
						headaches,
						gastrointestina
						disturbances,
						dizziness,
						nausea
Specific target organ toxicity -	NOEL	>5000	mg/kg		OECD 408 (Repeated	nausca
repeated exposure (STOT-		20000	ing/itg		Dose 90-Day Oral	
RE), oral:					Toxicity Study in	
n.∟,, orai.					Rodents)	



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Specific target organ toxicity -	NOEC	100	mg/m3	OECD 413	Dust, Mist
repeated exposure (STOT-			_	(Subchronic Inhalation	
RE), inhalat.:				Toxicity - 90-Day	
				Study)	

11.2. Information on other hazards

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Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Endocrine disrupting						Does not apply
properties:						to mixtures.
Other information:						No other
						relevant
						information
						available on
						adverse effects
						on health.

SECTION 12: Ecological information

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

Rigidur Estrichkleber Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	Lindpoint		Talac	Unit	organioni	rest method	n.d.a.
12.1. Toxicity to							n.d.a.
daphnia:							11.0.0.
12.1. Toxicity to algae:							n.d.a.
12.2. Persistence and							With water at
degradability:							the interface,
degradability.							transforms
							slowly with
							formation of
							CO2 into a
							firm, insoluble
							reaction
							product with a
							high melting
							point
							(polycarbamide
							. According to
							experience
							available to
							date,
							polycarbamide
							is inert and non
							degradable.
12.3. Bioaccumulative							n.d.a.
potential:							
12.4. Mobility in soil:							n.d.a.
12.5. Results of PBT							n.d.a.
and vPvB assessment							
12.6. Endocrine							Does not apply
disrupting properties:							to mixtures.
12.7. Other adverse							No information
effects:							available on
							other adverse
							effects on the
							environment.

Diphenylmethanediiso	ocyanate, isome	res and he	omologues	6			
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes



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12.1. Toxicity to fish:	LC50	96h	>1000	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute	
						Toxicity Test)	
12.1. Toxicity to	NOEC/NOEL	21d	>=10	mg/l	Daphnia magna	OECD 211	
daphnia:				_	_	(Daphnia magna	
-						Reproduction	
						Test)	
12.1. Toxicity to	EC50	24h	>1000	mg/l	Daphnia magna	OECD 202	
daphnia:						(Daphnia sp.	
						Acute	
						Immobilisation	
						Test)	
12.1. Toxicity to algae:	ErC50	72h	>1640	mg/l	Scenedesmus	OECD 201	
, ,				U	subspicatus	(Alga, Growth	
						Inhibition Test)	
12.2. Persistence and		28d	0	%	activated sludge	OECD 302 C	Not
degradability:			-			(Inherent	biodegradable
						Biodegradability -	According to
						Modified MITI	experience
						Test (II))	available to
							date,
							polycarbamide
							is inert and no
							degradable.,
							With water at
							the interface,
							transforms
							slowly with
							formation of
							CO2 into a
							firm, insoluble
							reaction
							product with a
							high melting
							point
							(polycarbamid
12.3. Bioaccumulative	BCF	42d	<14		Cyprinus carpio	OECD 305	Not to be
potential:		720				(Bioconcentration	expected
potential.						- Flow-Through	CAPCOICO
						Fish Test)	
12.5. Results of PBT						1 311 1 531	No vPvB
and vPvB assessment							substance, No
and ve vd assessment							PBT substance
Toxicity to bacteria:	EC50	3h	>100	mg/l	activated sludge	OECD 209	I DI SUDSIANO
	2030	511	>100	iiig/i	activated Sludge	(Activated	
						Sludge,	
						Respiration	
						Inhibition Test	
						(Carbon and	
						Ammonium	
Others and the		4 4 1	4000		A	Oxidation))	
Other organisms:	NOEC/NOEL	14d	>1000	mg/kg	Avena sativa	OECD 208	
						(Terrestrial	
						Plants, Growth	
<u> </u>						Test)	
Other organisms:	NOEC/NOEL	14d	>1000	mg/kg	Lactuca sativa	OECD 208	
						(Terrestrial	
	1			1		Plants, Growth	
						Test)	

@-



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Toxicity to annelids:	NOEC/NOEL	14d	>1000	mg/kg	Lumbricus terrestris	OECD 207 (Earthworm, Acute Toxicity	
						Tests)	

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	>1000	mg/l	Cyprinus caprio	92/69/EC	
12.1. Toxicity to	EC50	48h	>1000	mg/l	Daphnia magna	OECD 202	
daphnia:						(Daphnia sp.	
						Acute	
						Immobilisation	
··· <u> </u>						Test)	
12.1. Toxicity to algae:	EC50	72h	>900	mg/l	Desmodesmus	OECD 201	
					subspicatus	(Alga, Growth	
100 B 11				0(Inhibition Test)	
12.2. Persistence and			83,5- 87-7	%		OECD 301 B	Readily
degradability:			0/-/			(Ready Biodegradability -	biodegradable2 9d
						Co2 Evolution	90
						Test)	
12.2. Persistence and	DOC	14d	90-100	%		OECD 301 A	
degradability:	200	110		/0		(Ready	
dogradability.						Biodegradability -	
						DOC Die-Away	
						Test)	
12.3. Bioaccumulative	Log Pow		-0,41			,	Bioaccumulatic
potential:							n is unlikely
							(LogPow < 1).,
							calculated
							value
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No
	5040	4.01	7.100	//			vPvB substanc
Toxicity to bacteria:	EC10	16h	7400	mg/l	Pseudomonas putida	DIN 38412 T.8	
Other information:	AOX		0	%			Does not
							contain any
							organically
							bound
							halogens whicl
							can contribute
							to the AOX
							value in waste
				1			water.

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.

. @B.



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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)

(GB)

14.1. UN number or ID number:	Not applicable
14.2. UN proper shipping name:	
Not applicable	
14.3. Transport hazard class(es):	Not applicable
14.4. Packing group:	Not applicable
14.5. 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)	
14.1. UN number or ID number:	Not applicable
14.2. UN proper shipping name:	
Not applicable	
14.3. Transport hazard class(es):	Not applicable
14.4. Packing group:	Not applicable
14.5. Environmental hazards:	Not applicable
Marine Pollutant:	Not applicable
EmS:	Not applicable
Transport by air (IATA)	
14.1. UN number or ID number:	Not applicable
14.2. UN proper shipping name:	
Not applicable	
14.3. Transport hazard class(es):	Not applicable
14.4. Packing group:	Not applicable
14.5. Environmental hazards:	Not applicable
14.6. Special precautions for user	

14.6. Special precautions for user

Unless specified otherwise, general measures for safe transport must be followed. 14.7. Maritime transport in bulk according to IMO instruments

Non-dangerous material according to Transport 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

Diphenylmethanediisocyanate, isomeres and homologues

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 %

National requirements/regulations on safety and health protection must be applied when using work equipment.



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15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections:

(GB)

1-16

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

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

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

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

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

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

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

H335 May cause respiratory irritation.

H351 Suspected of causing cancer.

Eye Irrit. — Eye irritation STOT SE — Specific target organ toxicity - single exposure - respiratory tract irritation Skin Irrit. — Skin irritation Resp. Sens. — Respiratory sensitization Skin Sens. — Skin sensitization Carc. — Carcinogenicity STOT RE — Specific target organ toxicity - repeated exposure Acute Tox. — Acute toxicity - inhalation

Key literature references and sources for data:

Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) as amended. Guidelines for the preparation of safety data sheets as amended (ECHA). Guidelines on labelling and packaging according to the Regulation (EG) Nr. 1272/2008 (CLP) as amended (ECHA). Safety data sheets for the constituent substances. ECHA Homepage - Information about chemicals. GESTIS Substance Database (Germany). German Environment Agency "Rigoletto" information site on substances that are hazardous to water (Germany). EU Occupation Exposure Limits Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164, (EU) 2019/1831, each as amended. National Lists of Occupational Exposure Limits for each country as amended. Regulations on the transport of hazardous goods by road, rail, sea and air (ADR, RID, IMDG, IATA) as amended.

Any abbreviations and acronyms used in this document:



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GB Page 17 of 17 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 10.08.2023 / 0001 Replacing version dated / version: 10.08.2023 / 0001 Valid from: 10.08.2023 PDF print date: 11.08.2023 **Rigidur Estrichkleber** OECD Organisation for Economic Co-operation and Development org. organic OSHA Occupational Safety and Health Administration (USA) persistent, bioaccumulative and toxic PBT ΡE Polyethylene PNEC Predicted No Effect Concentration parts per million ppm PVC Polyvinylchloride REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals) 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical REACH-IT List-No. 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 Telephone Tel. TOC Total organic carbon UN RTDG United Nations Recommendations on the Transport of Dangerous Goods VOC Volatile organic compounds vPvB very persistent and very bioaccumulative wwt wet 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.

These statements were made by:

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