

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

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HydroBloc 620 nV Integral

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

1.1. Product identifier

Trade name/designation:

HydroBloc 620 nV Integral

Other means of identification:

Hydroactive, very elastic 1 C PU injection resin. For the sealing of cracks, working joints and structural breakdown

UFI:

1MCN-UUQT-MY6K-S006

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

Use of the substance/mixture:

Hydroactive, very elastic 1 C PU injection resin. For the sealing of cracks, working joints and structural breakdown

Relevant identified uses:

Life cycle stage [LCS]

PW: Widespread use by professional workers

C: Consumer use

Sector of uses [SU]

SU 19: Building and construction work

Product Categories [PC]

PC 1: Adhesives, sealants

Process categories [PROC]

PROC 0: Other

Article categories [AC]

AC 0: Other

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

ARCAN GmbH

Kleinniedesheimerstrasse 19

67240 Bobenheim-Roxheim

Germany

Telephone: +49 (0) 6239 - 99 78 2 - 0

Telefax: +49 (0) 6239 - 99 78 2 - 20

E-mail: sds-labor@arcan.biz

Website: www.arcan.biz

1.4. Emergency telephone number

+49 (0) 6239 - 99 78 2 - 0 (Only available during office hours.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]:

Hazard classes and hazard categories	Hazard statements	Classification procedure
Skin corrosion/irritation (<i>Skin Irrit. 2</i>)	H315: Causes skin irritation.	Calculation method.
Respiratory or skin sensitisation (<i>Skin Sens. 1</i>)	H317: May cause an allergic skin reaction.	Calculation method.
Serious eye damage/eye irritation (<i>Eye Irrit. 2</i>)	H319: Causes serious eye irritation.	Calculation method.

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Hazard classes and hazard categories	Hazard statements	Classification procedure
Acute toxicity (inhalative) (<i>Acute Tox. 4</i>)	H332: Harmful if inhaled.	Calculation method.
Respiratory or skin sensitisation (<i>Resp. Sens. 1</i>)	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.	Calculation method.
STOT-single exposure (<i>STOT SE 3</i>)	H335: May cause respiratory irritation.	Calculation method.
Carcinogenicity (<i>Carc. 2</i>)	H351: Suspected of causing cancer.	Calculation method.
Reproductive toxicity (<i>Lact.</i>)	H362: May cause harm to breast-fed children.	Calculation method.
STOT-repeated exposure (<i>STOT RE 2</i>)	H373: May cause damage to organs through prolonged or repeated exposure. (...)	Calculation method.
Hazardous to the aquatic environment (<i>Aquatic Acute 1</i>)	H400: Very toxic to aquatic life.	Calculation method.
Hazardous to the aquatic environment (<i>Aquatic Chronic 1</i>)	H410: Very toxic to aquatic life with long lasting effects.	Calculation method.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms:



GHS07

Exclamation mark



GHS08

Health hazard



GHS09

Environment

Signal word: Danger

Hazard components for labelling:

Alkanes, C14-17, chloro; Methyloxirane, polymer with oxirane, ether with oxybis(propanol). polymer with 1,1'-methylenebis(isocyanatobenzene), methyloxirane and oxirane; 4,4'-methylenediphenyl diisocyanate; Reaktionsmasse von 4,4'-methylenediphenyldiisocyanat und O-(p-isocyanatbenzyl)phenylisocyanat

hazard statements for health hazards

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.
H362	May cause harm to breast-fed children.
H373	May cause damage to organs through prolonged or repeated exposure. (...)

Hazard statements for environmental hazards

H410	Very toxic to aquatic life with long lasting effects.
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Supplemental hazard information

EUH208	Contains Methyloxirane, polymer with oxirane, ether with oxybis(propanol). polymer with 1,1'-methylenebis(isocyanatobenzene), methyloxirane and oxirane, Reaktionsmasse von 4,4'-methylenediphenyldiisocyanat und O-(p-isocyanatbenzyl)phenylisocyanat, 4,4'-methylenediphenyl diisocyanate, p-toluenesulphonyl isocyanate. May produce an allergic reaction.
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Precautionary statements Prevention

P201	Obtain special instructions before use.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/....

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Precautionary statements Response

P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P342 + P311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor/....
P362 + P364	Take off contaminated clothing and wash it before reuse.

2.3. Other hazards

Adverse human health effects and symptoms:

Risk of sensitization of respiratory tract and skin. Sensitised persons can react to even very low concentrations and should therefore have no further contact with these materials. Impairment of the lung function.

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Hazardous ingredients / Hazardous impurities / Stabilisers:

product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 85535-85-9 EC No.: 287-477-0 REACH No.: 01-2119519269-33-XXXX	Alkanes, C14-17, chloro Aquatic Acute 1, Aquatic Chronic 1, Lact. Warning H362-H410-EUH066	29 - ≤ 49.5 weight-%
CAS No.: 157937-75-2	Methyloxirane, polymer with oxirane, ether with oxybis(propanol). polymer with 1,1'-methylenebis(isocyanatobenzene), methyloxirane and oxirane Acute Tox. 4, Carc. 2, Eye Irrit. 2, Resp. Sens. 1, STOT RE 2, STOT SE 3, Skin Irrit. 2, Skin Sens. 1 Danger H315-H317-H319-H332-H334-H335-H351-H373-EUH204	26 - ≤ 44.55 weight-%
CAS No.: 101-68-8 EC No.: 202-966-0	4,4'-methylenediphenyl diisocyanate Acute Tox. 4, Carc. 2, Eye Irrit. 2, Resp. Sens. 1, STOT RE 2, STOT SE 3, Skin Irrit. 2, Skin Sens. 1 Danger H315-H317-H319-H332-H334-H335-H351-H373	8 - ≤ 14.85 weight-%
REACH No.: 01-2119457015-45	Reaktionsmasse von 4,4'-methylenediphenyldiisocyanat und O-(p-isocyanatbenzyl)phenylisocyanat Acute Tox. 4, Carc. 2, Eye Irrit. 2, Resp. Sens. 1, STOT RE 2, STOT SE 3, Skin Irrit. 2, Skin Sens. 1 H315-H317-H319-H332-H334-H335-H351-H373	1 - < 2.48 weight-%

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

Remove contaminated, saturated clothing.

Following inhalation:

Provide fresh air. In case of respiratory tract irritation, consult a physician. Get medical advice/attention. If breathing is irregular or stopped, administer artificial respiration. No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator.

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In case of skin contact:

In case of contact with skin, wash off immediately with plenty of water / polyethylene glycol 400 (Roticlean).

Then wash off with plenty of water and soap.

If skin irritation or rash occurs: Get medical advice/attention. Take off immediately all contaminated clothing.

Do not dry up the product. Isocyanates react with skin and cause contaminations that are very hard to remove.

After eye contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. If eye irritation persists: Get medical advice/attention.

Following ingestion:

Do NOT induce vomiting. Rinse mouth. Let water be drunken in little sips (dilution effect). Get medical advice/attention if you feel unwell.

Self-protection of the first aider:

Use personal protection equipment. No direct artificial respiration to be given by first aider. First aider: Pay attention to self-protection!

4.2. Most important symptoms and effects, both acute and delayed

Skin corrosion/irritation. Allergic reactions. Serious eye damage/eye irritation. Asthmatic complaints.

Respiratory complaints. Irritation to respiratory tract. burning of the eyes burning mucous membranes of nose and throat Nausea

Sensitised persons can react to even very low concentrations and should therefore have no further contact with these materials.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

alcohol resistant foam, Dry extinguishing powder, Carbon dioxide.

Unsuitable extinguishing media:

Water

5.2. Special hazards arising from the substance or mixture

Not readily combustible.

Material reacts slowly with water, releasing carbon dioxide which can cause pressure buildup and rupture of closed containers. Elevated temperatures accelerate this reaction.

Container may rupture from gas generation in a fire situation. Violent steam generation or eruption may occur upon application of direct water stream to hot liquids.

Dense smoke is produced when product burns.

Hazardous combustion products:

In case of fire may be liberated: Carbon monoxide, Carbon dioxide, Nitrogen oxides (NOx), Isocyanates, Hydrogen cyanide (hydrocyanic acid).

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Cool endangered containers with water spray. Move undamaged containers from immediate hazard area if it can be done safely. Do not allow water to get into the container because of violent reaction.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

Remove persons to safety. Use personal protective equipment. Keep unprotected people away. Provide adequate ventilation. Avoid contact with eyes and skin. Avoid inhalation.

Special danger of slipping by leaking/spilling product.

Protective equipment:

Personal protection equipment: see section 8

6.1.2. For emergency responders

Personal protection equipment:

Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Inform responsible authorities if the product penetrates into the ground. In case of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

For containment:

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

For cleaning up:

Cover with a moist binding agent (e.g. sand, soil, PUR-dust). Douse with a decontaminating solution and let it act for at least 30 minutes. Mix it well and keep wet with water.

Decontaminating solutions:

A. 90 - 95 % water, 3 - 8 % ammonia conc., 0,2 - 0,5 % liquid detergent (washing up liquid)

or

B. 90 - 95 % water, 5 - 10 % soda (sodium carbonate), 0,2 - 0,5 % liquid detergent (washing up liquid)

Collect in a waste container. Do not close the container (CO₂ development). Treat with more decontaminating solution, let it act for 1 or 2 days then dispose.

Ventilate affected area. Clean contaminated objects and floor.

Suitable cleaning solution (flammable!): industrial alcohol (ethanol, isopropanol, butanol) 50 wt.%, water 45 wt.%, ammonia conc. 5 wt.%).

Other information:

Provide adequate ventilation.

6.4. Reference to other sections

Safe handling: see section 7. Personal protection equipment: see section 8. Disposal: see section 13.

6.5. Additional information

Treat the recovered material as prescribed in the section on waste disposal.

Use appropriate container to avoid environmental contamination.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Wear personal protection equipment (refer to section 8). Avoid contact during pregnancy/while nursing. Avoid contact with skin, eyes and clothes. Provide washing facilities in the work area. Take care to keep workplace clean. Avoid splashing. Do not leave containers open.

Persons already sensitised to diisocyanates may develop allergic reactions when using this product.

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Fire prevent measures:

Avoid spraying or heating above the flash point.

Environmental precautions:

Do not allow product to reach ground water, water bodies or sewage system.

Advices on general occupational hygiene

When using do not eat, drink or smoke. Avoid contact with eyes and skin. Protect from direct sunlight. Protect from moisture. Reacts with water forming CO₂; in closed containers, risk of bursting owing to increase of pressure.

Keep/Store only in original container.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Keep container tightly closed in a cool, well-ventilated place.

Packaging materials:

Refined steel

Requirements for storage rooms and vessels:

Keep container tightly closed in a cool, well-ventilated place. Protect from moisture. Protect from sunlight.

Storage class (TRGS 510, Germany): 10 - Combustible liquids that cannot be assigned to any of the above storage classes

Further information on storage conditions:

Recommended storage temperature: 5 - 30 °C

7.3. Specific end use(s)

Recommendation:

Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
TRGS 900 (DE)	Alkanes, C14-17, chloro CAS No.: 85535-85-9 EC No.: 287-477-0	① 0.3 ppm (6 mg/m ³) ② 2.4 ppm (48 mg/m ³) ⑤ (Aerosol und Dampf, einatembare Fraktion, kann über die Haut aufgenommen werden)
TRGS 900 (DE)	4,4'-methylenediphenyl diisocyanate CAS No.: 101-68-8 EC No.: 202-966-0	① 0.05 mg/m ³ ② 0.05 mg/m ³ ③ 0.1 mg/m ³ ⑤ (Aerosol und Dampf, einatembare Fraktion, kann über die Haut aufgenommen werden)

8.1.2. Biological limit values

No data available

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8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
Alkanes, C14-17, chloro CAS No.: 85535-85-9 EC No.: 287-477-0	6.7 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
Alkanes, C14-17, chloro CAS No.: 85535-85-9 EC No.: 287-477-0	2 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
Alkanes, C14-17, chloro CAS No.: 85535-85-9 EC No.: 287-477-0	47.9 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
Alkanes, C14-17, chloro CAS No.: 85535-85-9 EC No.: 287-477-0	28.75 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
Alkanes, C14-17, chloro CAS No.: 85535-85-9 EC No.: 287-477-0	0.58 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects

Substance name	PNEC Value	① PNEC type
Alkanes, C14-17, chloro CAS No.: 85535-85-9 EC No.: 287-477-0	1 µg/l	① PNEC aquatic, freshwater
Alkanes, C14-17, chloro CAS No.: 85535-85-9 EC No.: 287-477-0	0.2 µg/l	① PNEC aquatic, marine water
Alkanes, C14-17, chloro CAS No.: 85535-85-9 EC No.: 287-477-0	80 mg/l	① PNEC sewage treatment plant
Alkanes, C14-17, chloro CAS No.: 85535-85-9 EC No.: 287-477-0	13 mg/kg	① PNEC sediment, freshwater
Alkanes, C14-17, chloro CAS No.: 85535-85-9 EC No.: 287-477-0	2.6 mg/kg	① PNEC sediment, marine water
Alkanes, C14-17, chloro CAS No.: 85535-85-9 EC No.: 287-477-0	10 mg/kg	① PNEC secondary poisoning

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No data available

8.2.2. Personal protection equipment



Eye/face protection:

Eye glasses with side protection DIN EN 166

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Skin protection:

Tested protective gloves must be worn EN ISO 374

Suitable material:

CR (polychloroprene, chloroprene rubber) 0,5 mm

NBR (Nitrile rubber) 0,35 mm

Butyl caoutchouc (butyl rubber) 0,5mm

FKM (fluoro rubber) 0,4 mm

PVC (polyvinyl chloride) 0,5 mm

In the case of wanting to use the gloves again, clean them before taking off and air them well.

Breakthrough times and swelling properties of the material must be taken into consideration.

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Check leak tightness/impermeability prior to use. Protective gloves shall be replaced immediately when physically damaged or worn. When wearing protective gloves, cotton glove liners are recommended.

Breakthrough time: min

Respiratory protection:

Respiratory protection required at: spraying, insufficient ventilation

, exceeding exposure limit values, Accidental release.

Combination filter A-P2.

8.2.3. Environmental exposure controls

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities. Local authorities should be advised if significant spillages cannot be contained.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid

Colour: brown

Odour: not determined

Safety relevant basis data

parameter		at °C	Method	Remark
pH	<i>not applicable</i>			Reacts with water (moisture) and cures
Melting point	-10 °C			
Freezing point	<i>not determined</i>			
Initial boiling point and boiling range	> 200			
Decomposition temperature	<i>not determined</i>			
Flash point	<i>not determined</i>			
Evaporation rate	<i>not determined</i>			
Auto-ignition temperature	<i>not determined</i>			
Upper/lower flammability or explosive limits	<i>not determined</i>			
Vapour pressure	<i>not determined</i>			
Vapour density	<i>not determined</i>			
Density	1.15 - 1.25	20 °C		
Bulk density	<i>not determined</i>			
Water solubility	<i>not determined</i>			
Partition coefficient: n-octanol/ water	<i>not determined</i>			
Dynamic viscosity	80 - 150 mPa*s	20 °C		
Kinematic viscosity	<i>not determined</i>			

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9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Vapours are heavier than air. Formation of explosive atmospheres possible when heated above the flash point and/or during spraying.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

Exothermic reaction with: Water, Acids, Alkalis, Alcohols, primary and secondary amines, Ammonia. The reaction results in formation of carbon dioxide: Danger of bursting due pressure build-up in closed containers. Violent polymerisation may be caused by: High temperatures, organotin compounds, tertiary amines

10.4. Conditions to avoid

Avoid spraying or heating above the flash point.

10.5. Incompatible materials

copper, Copper alloys, non-ferrous metals, zinc.

10.6. Hazardous decomposition products

Decomposition products in case of fire: see section 5.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Substance name	Toxicological information
Alkanes, C14-17, chloro CAS No.: 85535-85-9 EC No.: 287-477-0	LD₅₀ oral: >4,000 mg/kg (Rat) LC₅₀ Acute inhalation toxicity (vapour): >48.17 mg/l 1 h (Rat) LD₅₀ dermal: 4,000 mg/kg (Ratte)
Methyloxirane, polymer with oxirane, ether with oxybis(propanol). polymer with 1,1'-methylenebis(isocyanatobenzene), methyloxirane and oxirane CAS No.: 157937-75-2	LD₅₀ oral: >10,000 mg/kg (Rat male) LC₅₀ Acute inhalation toxicity (dust/mist): =0.49 mg/l 4 h (Rat)
4,4'-methylenediphenyl diisocyanate CAS No.: 101-68-8 EC No.: 202-966-0	LD₅₀ oral: 9,200 mg/kg (Ratte) LC₅₀ Acute inhalation toxicity (dust/mist): 0.49 mg/l 4 h (Rat) LD₅₀ dermal: 9,400 mg/kg (Rabbit)
Reaktionsmasse von 4,4'-methylenediphenyldiisocyanat und O-(p-isocyanatbenzyl)phenylisocyanat	LD₅₀ oral: 2,000 mg/kg (Rat) LD₅₀ dermal: 9,400 mg/kg (Rabbit)

Acute oral toxicity:

Based on available data, the classification criteria are not met.

Acute dermal toxicity:

Based on available data, the classification criteria are not met.

Acute inhalation toxicity:

Harmful if inhaled.

Skin corrosion/irritation:

Causes skin irritation.

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Serious eye damage/irritation:

Causes serious eye irritation.

Respiratory or skin sensitisation:

May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. Contains Methyloxirane, polymer with oxirane, ether with oxybis(propanol). polymer with 1,1'-methylenebis(isocyanatobenzene), methyloxirane and oxirane, Reaktionsmasse von 4,4'-methyendiphenyldiisocyanat und O-(p-isocyanatbenzyl)phenylisocyanat, 4,4'-methylenediphenyl diisocyanate, p-toluenesulphonyl isocyanate. May produce an allergic reaction.

Germ cell mutagenicity:

Based on available data, the classification criteria are not met.

Carcinogenicity:

Suspected of causing cancer.

Reproductive toxicity:

May cause harm to breast-fed children.

STOT-single exposure:

May cause respiratory irritation.

STOT-repeated exposure:

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard:

Based on available data, the classification criteria are not met.

Additional information:

No data available

SECTION 12: Ecological information

12.1. Toxicity

Substance name	Toxicological information
Alkanes, C14-17, chloro CAS No.: 85535-85-9 EC No.: 287-477-0	EC₅₀ : ≥3.2 mg/l 4 d (Algae/water plant, Selenastrum ca pricornutum) NOEC : 0.01 mg/l 21 d (crustaceans, Daphnia magna (Big water flea)) EC₅₀ : 0.0059 mg/l 2 d (crustaceans, Daphnia magna (Big water flea))
Methyloxirane, polymer with oxirane, ether with oxybis(propanol). polymer with 1,1'-methylenebis(isocyanatobenzene), methyloxirane and oxirane CAS No.: 157937-75-2	LC₅₀ : >1,000 mg/l 4 d (fish) Acute (short-term) fish toxicity EC₅₀ : 1,000 mg/l 2 d (crustaceans, Daphnia magna (Big water flea)) EC₅₀ : 1,640 mg/l 3 d (Algae/water plant)
4,4'-methylenediphenyl diisocyanate CAS No.: 101-68-8 EC No.: 202-966-0	LC₅₀ : 1,000 - 1,000 mg/l 4 d (Danio rerio (zebrafish)) EC₅₀ : 1,000 mg/l (crustaceans, Daphnia magna (Big water flea)) NOEC : 10 mg/l 21 d (crustaceans)
Reaktionsmasse von 4,4'-methyendiphenyldiisocyanat und O-(p-isocyanatbenzyl)phenylisocyanat	LC₅₀ : 1,000 mg/l (fish) EC₅₀ : 1,000 mg/l (crustaceans) EC₅₀ : 1,640 mg/l (Algae/water plant)

Aquatic toxicity:

Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability

Substance name	Biodegradation	Remark
Alkanes, C14-17, chloro CAS No.: 85535-85-9	Yes, slowly	

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Substance name	Biodegradation	Remark
EC No.: 287-477-0		

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

Substance name	Results of PBT and vPvB assessment
Methyloxirane, polymer with oxirane, ether with oxybis(propanol). polymer with 1,1'-methylenebis(isocyanatobenzene), methyloxirane and oxirane CAS No.: 157937-75-2	—
4,4'-methylenediphenyl diisocyanate CAS No.: 101-68-8 EC No.: 202-966-0	—
Reaktionsmasse von 4,4'-methyendiphenyldiisocyanat und O-(p-isocyanatbenzyl)phenylisocyanat	—

12.6. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of waste according to applicable legislation.

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product:

Remark:

Unhardened product residues are special waste.

Cured product residues are no hazardous waste.

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Waste treatment options

Appropriate disposal / Product:

Consult the appropriate local waste disposal expert about waste disposal.

Appropriate disposal / Package:

Decontaminate product residues in completely empty containers with a decontaminating solution (see section 6.3 Methods and material for containment and cleaning up).

Packing which cannot be properly cleaned must be disposed of.

Non-contaminated packages may be recycled.

13.2. Additional information

Do not allow to enter into surface water or drains.

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)
14.1. UN-No.		
UN 3082	UN 3082	UN 3082

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Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	
14.2. UN proper shipping name			
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Alkanes, C14-17, chloro)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Alkanes, C14-17, chloro)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Alkanes, C14-17, chloro)	
14.3. Transport hazard class(es)			
 9	 9	 9	
14.4. Packing group			
III	III	III	
14.5. Environmental hazards			
		 MARINE POLLUTANT	
14.6. Special precautions for user			
Special provisions: 274, 335, 375 601 Limited quantity (LQ): 5000 mL Excepted Quantities (EQ): Hazard identification number (Kemler No.): 90 Classification code: M6 tunnel restriction code: (E) Remark:	Special provisions: 274, 335, 375, 601 Limited quantity (LQ): 5000 mL Excepted Quantities (EQ): Classification code: M6 Remark:	Special provisions: 274, 909, 944, E2 Limited quantity (LQ): 5000 ml Excepted Quantities (EQ): EmS-No.: F-A, S-F Remark:	

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

No data available

SECTION 15: Regulatory information

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

15.1.1. EU legislation

No data available

15.1.2. National regulations

 [DE] National regulations

Restrictions of occupation

4 MuSchRiV. 5 MuSchRiV. 22 JArbSchG.

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Water hazard class

WGK:

2 - deutlich wassergefährdend

Technische Regeln für Gefahrstoffe

TRGS 430 TRGS 500 TRGS 510 TRGS 900 TRGS 903 TRGS 905

Berufsgenossenschaftliche Vorschriften (DGUV-Vorschriften)

Berufsgenossenschaftliche Regeln (BGR) 190

Berufsgenossenschaftliche Informationen (BGI) 595

15.2. Chemical Safety Assessment

For this mixture a chemical safety assessment was not carried out.

SECTION 16: Other information

16.1. Indication of changes

No data available

16.2. Abbreviations and acronyms

For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>

16.3. Key literature references and sources for data

Safety data sheets of raw material suppliers. BAM: Datenbank GEFAHRGUT der Bundesanstalt für Materialforschung und -prüfung eChemPortal: The Global Portal to Information on Chemical Substances GESTIS: Stoffdatenbank des Instituts für Arbeitsschutz der Deutschen Gesetzlichen Unfallversicherung (IFA) GisBAU: Gefahrstoffinformationssystem der Berufsgenossenschaft Bau GisChem: Gefahrstoffinformationssystem der Berufsgenossenschaft Chemie GSBL: Gemeinsamer Stoffdatenpool Bund / Länder

16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Classification according to Regulation (EC) No 1272/2008 [CLP]:

Hazard classes and hazard categories	Hazard statements	Classification procedure
Skin corrosion/irritation (<i>Skin Irrit. 2</i>)	H315: Causes skin irritation.	Calculation method.
Respiratory or skin sensitisation (<i>Skin Sens. 1</i>)	H317: May cause an allergic skin reaction.	Calculation method.
Serious eye damage/eye irritation (<i>Eye Irrit. 2</i>)	H319: Causes serious eye irritation.	Calculation method.
Acute toxicity (inhalative) (<i>Acute Tox. 4</i>)	H332: Harmful if inhaled.	Calculation method.
Respiratory or skin sensitisation (<i>Resp. Sens. 1</i>)	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.	Calculation method.
STOT-single exposure (<i>STOT SE 3</i>)	H335: May cause respiratory irritation.	Calculation method.
Carcinogenicity (<i>Carc. 2</i>)	H351: Suspected of causing cancer.	Calculation method.
Reproductive toxicity (<i>Lact.</i>)	H362: May cause harm to breast-fed children.	Calculation method.
STOT-repeated exposure (<i>STOT RE 2</i>)	H373: May cause damage to organs through prolonged or repeated exposure. (...)	Calculation method.
Hazardous to the aquatic environment (<i>Aquatic Acute 1</i>)	H400: Very toxic to aquatic life.	Calculation method.
Hazardous to the aquatic environment (<i>Aquatic Chronic 1</i>)	H410: Very toxic to aquatic life with long lasting effects.	Calculation method.

16.5. Relevant R-, H- and EUH-phrases (Number and full text)

Hazard statements	
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.

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Hazard statements

H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H362	May cause harm to breast-fed children.
H373	May cause damage to organs through prolonged or repeated exposure. (...)
H373	May cause damage to organs through prolonged or repeated exposure. (...)
H410	Very toxic to aquatic life with long lasting effects.

Supplemental hazard information

EUH066	Repeated exposure may cause skin dryness or cracking.
EUH204	Contains isocyanates. May produce an allergic reaction.

16.6. Training advice

No data available

16.7. Additional information

The information in this safety data sheet corresponds to the best of our knowledge at the time of going to print. The information is intended to give you guidelines for the safe handling of the product named in this safety data sheet during storage, processing, transport and disposal. The information cannot be transferred to other products. If the product is blended, mixed or processed with other materials, or is subjected to processing, the information in this safety data sheet cannot be transferred to the new material produced in this way, unless otherwise stated.