

SAFETY DATA SHEET

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

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HydroFlex 622

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

1.1. Product identifier

Trade name/designation:

HydroFlex 622

Other means of identification:

Hydroactive elastic 1K water stop resin

Article No.:

622

UFI:

0YXD-7TYW-S9Q3-7QQS

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

Relevant identified uses:

Life cycle stage [LCS]

PW: Widespread use by professional workers

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.
Acute toxicity (inhalative) (<i>Acute Tox. 4</i>)	H332: Harmful if inhaled.	Calculation method.

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Hazard classes and hazard categories	Hazard statements	Classification procedure
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; 4,4' diphenylmethanediisocyanate, isomere, homologue and mixtures; Isocyanic acid, polymethylenepolyphenylene ester, polymer with .alpha.-hydro.-omega.-hydroxypolyoxy(methyl-1,2-ethanediyl); 4,4'-methylenediphenyl diisocyanate

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.

Supplemental hazard information: -

Precautionary statements Prevention	
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P263	Avoid contact during pregnancy and while nursing.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/....

Precautionary statements Response	
P302 + P352	IF ON SKIN: Wash with plenty of water/....
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.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.

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Precautionary statements Response

P342 + P311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor/....
P391	Collect spillage.

Precautionary statements Storage

P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
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2.3. Other hazards











Adverse human health effects and symptoms:

Contains isocyanates. May produce an allergic reaction.

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 Index No.: 602-095-00-X	Alkanes, C14-17, chloro Aquatic Acute 1, Aquatic Chronic 1, Lact.  Warning H362-H400-H410-EUH066 M-factor (acute): 100 M-factor (chronic): 10	25 - < 40 weight-%
CAS No.: 9016-87-9 EC No.: 905-804-3	4,4' diphenylmethanediisocyanate, isomere, homologe and mixtures 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	13 - < 25 weight-%
CAS No.: 53862-89-8	Isocyanic acid, polymethylenepolyphenylene ester, polymer with .alpha.-hydro.-omega.-hydroxypolyoxy(methyl-1,2-ethanediyl) 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	13 - < 25 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 Specific concentration limit (SCL): Eye Irrit. 2; H319: C ≥ 5% Skin Irrit. 2; H315: C ≥ 5% Resp. Sens. 1; H334: C ≥ 0.1% STOT SE 3; H335: C ≥ 5%	7 - < 15 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	4 - ≤ 7 weight-%
CAS No.: 108-32-7 EC No.: 203-572-1 REACH No.: 01-2119537232-48-XXXX	propylene carbonate Eye Irrit. 2  Warning H319	2 - < 5 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 weight-%

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product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 108-94-1 EC No.: 203-631-1 REACH No.: 01-2119453616-35-XXXX	cyclohexanone Acute Tox. 4, Eye Dam. 1, Flam. Liq. 3, Skin Irrit. 2  Danger H226-H302-H312-H315-H318-H332	0 - < 0.03 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:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended. Warning First aider: Pay attention to self-protection!

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. Get immediate medical advice/attention. Get medical advice/attention if you feel unwell.

In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.

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:

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. Respiratory complaints. Irritation to respiratory tract. Asthmatic complaints.

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:

Foam, Carbon dioxide, Extinguishing powder. If no more suitable extinguishing agents are available, very large amounts of water can be used. This can lead to a violent reaction of the hot isocyanate with water. This has to be taken into account. The extinguishing water must not get into bodies of water, contain it.

Unsuitable extinguishing media:

Full water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products:

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

5.3. Advice for firefighters

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

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5.4. Additional information

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

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. First aider: Pay attention to self-protection! Evacuate area. Avoid breathing dust/fume/gas/mist/vapours/spray. Use personal protection equipment.

Protective equipment:

Wear protective gloves/protective clothing/eye protection/face protection.

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.

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).

Large amounts of spillages: Pump the product into an appropriately marked replacement container.

Absorb with liquid-binding material (sand, kieselguhr, acid binder, universal binder).

Thoroughly clean the entire contaminated area with plenty of water.

Collect the rinse water and then dispose of it.

Dispose of contaminated material as waste according to item 13

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

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.

Provide eyewash station and safety shower.

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

Keep only in the original container in a cool, well-ventilated place. Provide adequate ventilation as well as local exhaust at critical locations.

Advices on general occupational hygiene

The usual precautionary measures when handling chemicals must be observed.

Do not eat, drink or smoke at work. Keep away from food, drink and animal feed.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin. Take off dirty, soaked clothes immediately. Wash before re-use.

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:

Keep only in the original container in a cool, well-ventilated place.

Requirements for storage rooms and vessels:

Protect from moisture. Protect from sunlight. Store in a well-ventilated place.

Make sure spills can be contained, e.g. in sump pallets or kerbed areas.

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Hints on storage assembly:

Do not store together with: Acids, Amines, Base, metals (including their alloys), Water.

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

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' diphenylmethanediisocyanate, isomere, homologe and mixtures CAS No.: 9016-87-9 EC No.: 905-804-3	① 0.05 mg/m ³ ② 0.05 mg/m ³ ③ 0.1 mg/m ³ ⑤ (als MDI berechnet), (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)
TRGS 900 (DE)	propylene carbonate CAS No.: 108-32-7 EC No.: 203-572-1	① 2 ppm (8.5 mg/m ³) ② 2 ppm (8.5 mg/m ³) ⑤ (Aerosol und Dampf)
TRGS 900 (DE)	cyclohexanone CAS No.: 108-94-1 EC No.: 203-631-1	① 20 ppm (80 mg/m ³) ② 20 ppm (80 mg/m ³) ⑤ (kann über die Haut aufgenommen werden)
IOELV (EU)	cyclohexanone CAS No.: 108-94-1 EC No.: 203-631-1	① 10 ppm (40.8 mg/m ³) ② 20 ppm (81.6 mg/m ³) ⑤ (may be absorbed through the skin)

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
propylene carbonate CAS No.: 108-32-7 EC No.: 203-572-1	70.56 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
propylene carbonate CAS No.: 108-32-7 EC No.: 203-572-1	17.4 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
propylene carbonate CAS No.: 108-32-7 EC No.: 203-572-1	20 mg/m ³	① DNEL worker ② Long-term - inhalation, local effects
propylene carbonate CAS No.: 108-32-7 EC No.: 203-572-1	10 mg/m ³	① DNEL Consumer ② Long-term - inhalation, local effects
propylene carbonate CAS No.: 108-32-7 EC No.: 203-572-1	20 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
propylene carbonate CAS No.: 108-32-7 EC No.: 203-572-1	10 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
propylene carbonate CAS No.: 108-32-7 EC No.: 203-572-1	10 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
cyclohexanone CAS No.: 108-94-1 EC No.: 203-631-1	40 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
cyclohexanone CAS No.: 108-94-1 EC No.: 203-631-1	10 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
cyclohexanone CAS No.: 108-94-1 EC No.: 203-631-1	80 mg/m ³	① DNEL worker ② Acute - inhalation, systemic effects
cyclohexanone CAS No.: 108-94-1 EC No.: 203-631-1	20 mg/m ³	① DNEL Consumer ② Acute - inhalation, systemic effects
cyclohexanone CAS No.: 108-94-1 EC No.: 203-631-1	40 mg/m ³	① DNEL worker ② Long-term - inhalation, local effects
cyclohexanone CAS No.: 108-94-1 EC No.: 203-631-1	20 mg/m ³	① DNEL Consumer ② Long-term - inhalation, local effects
cyclohexanone CAS No.: 108-94-1 EC No.: 203-631-1	80 mg/m ³	① DNEL worker ② Acute - inhalation, local effects
cyclohexanone CAS No.: 108-94-1 EC No.: 203-631-1	40 mg/m ³	① DNEL Consumer ② Acute - inhalation, local effects
cyclohexanone CAS No.: 108-94-1 EC No.: 203-631-1	4 mg/kg bw/ day	① DNEL worker ② Long-term - dermal, systemic effects
cyclohexanone CAS No.: 108-94-1 EC No.: 203-631-1	1 mg/kg bw/ day	① DNEL Consumer ② Long-term - dermal, systemic effects
cyclohexanone CAS No.: 108-94-1 EC No.: 203-631-1	4 mg/kg bw/ day	① DNEL worker ② Acute - dermal, systemic effects
cyclohexanone CAS No.: 108-94-1 EC No.: 203-631-1	1 mg/kg bw/ day	① DNEL Consumer ② Acute - dermal, systemic effects

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Substance name	DNEL value	① DNEL type ② Exposure route
cyclohexanone CAS No.: 108-94-1 EC No.: 203-631-1	1.5 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
cyclohexanone CAS No.: 108-94-1 EC No.: 203-631-1	1.5 mg/kg bw/day	① DNEL Consumer ② Acute - oral, systemic effects

Substance name	PNEC Value	① PNEC type
propylene carbonate CAS No.: 108-32-7 EC No.: 203-572-1	0.9 mg/l	① PNEC aquatic, freshwater
propylene carbonate CAS No.: 108-32-7 EC No.: 203-572-1	0.09 mg/l	① PNEC aquatic, marine water
propylene carbonate CAS No.: 108-32-7 EC No.: 203-572-1	7,400 mg/l	① PNEC sewage treatment plant
propylene carbonate CAS No.: 108-32-7 EC No.: 203-572-1	9 mg/l	① PNEC aquatic, intermittent release
cyclohexanone CAS No.: 108-94-1 EC No.: 203-631-1	0.0329 mg/l	① PNEC aquatic, freshwater
cyclohexanone CAS No.: 108-94-1 EC No.: 203-631-1	0.00329 mg/l	① PNEC aquatic, marine water
cyclohexanone CAS No.: 108-94-1 EC No.: 203-631-1	10 mg/l	① PNEC sewage treatment plant
cyclohexanone CAS No.: 108-94-1 EC No.: 203-631-1	0.168 mg/kg	① PNEC sediment, freshwater
cyclohexanone CAS No.: 108-94-1 EC No.: 203-631-1	0.0168 mg/kg	① PNEC sediment, marine water
cyclohexanone CAS No.: 108-94-1 EC No.: 203-631-1	0.329 mg/l	① PNEC aquatic, intermittent release

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.

Skin protection:

Tested protective gloves must be worn: EN ISO 374.

Suitable material: Butyl caoutchouc (butyl rubber), NBR (Nitrile rubber), PVC (polyvinyl chloride), fluororubber (Viton). Breakthrough times and swelling properties of the material must be taken into consideration. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

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Respiratory protection:

In case of inadequate ventilation wear respiratory protection. Use adapted, air-purifying or air-fed breathing apparatus.

Other protection measures:

Only wear fitting, comfortable and clean protective clothing.

8.2.3. Environmental exposure controls

No data available

8.3. Additional information

Observe technical data sheet.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid

Colour: yellow

Odour: not determined

Safety relevant basis data

parameter		at °C	Method	Remark
pH	<i>not applicable</i>			Reacts with water with the evolution of carbon dioxide and foaming.
Melting point	<i>not determined</i>			
Freezing point	<i>not determined</i>			
Initial boiling point and boiling range	<i>not determined</i>			
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	<i>not determined</i>			
Relative density	<i>not determined</i>			
Bulk density	<i>not determined</i>			
Water solubility	<i>not determined</i>			
Partition coefficient: n-octanol/water	<i>not determined</i>			
Dynamic viscosity	<i>not determined</i>			
Kinematic viscosity	<i>not determined</i>			

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts with water with the evolution of carbon dioxide and foaming. Reacts with water (moisture) and cures Exothermic reaction with: Hydroxide groups

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: Hydroxide groups, Alcohols, Amines, acids and bases.

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10.4. Conditions to avoid

Humidity, Avoid open flames, sparks, direct sunlight and other sources of ignition.

10.5. Incompatible materials

acids and bases.

metals, Water, Alcohols, Amines.

10.6. Hazardous decomposition products

Decomposition products in case of fire: see section 5.

SECTION 11: Toxicological information

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

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) LD₅₀ dermal: 10 mg/kg (Rabbit) LC₅₀ Acute inhalation toxicity (vapour): 48.17 mg/l 1 h
4,4' diphenylmethanediisocyanate, isomere, homologue and mixtures CAS No.: 9016-87-9 EC No.: 905-804-3	LD₅₀ oral: >10,000 mg/kg (Rat - male) LD₅₀ dermal: >9,400 mg/kg (Rabbit - male, female) LC₅₀ Acute inhalation toxicity (dust/mist): =0.31 mg/l 4 h (Rat)
Isocyanic acid, polymethylenepolyphenylene ester, polymer with .alpha.-hydro-.omega.-hydroxypolyoxy(methyl-1,2-ethanediyl) CAS No.: 53862-89-8	LD₅₀ oral: 10,000 mg/kg (Rat) OECD 401 LD₅₀ dermal: 9,400 mg/kg (Rabbit) OECD 402
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)
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)
propylene carbonate CAS No.: 108-32-7 EC No.: 203-572-1	LD₅₀ dermal: >2,000 mg/kg (Rabbit - male, female) OECD 402 LD₅₀ oral: 33,520 mg/kg (Rat - male, female)
Reaktionsmasse von 4,4'-methylenediphenyldiisocyanat und O-(p-isocyanatbenzyl)phenylisocyanat	LD₅₀ oral: 2,000 mg/kg (Rat) LD₅₀ dermal: 9,400 mg/kg (Rabbit)
cyclohexanone CAS No.: 108-94-1 EC No.: 203-631-1	LD₅₀ oral: 1,530 mg/kg (Ratte) LD₅₀ dermal: 947 mg/kg (Kaninchen) LC₅₀ Acute inhalation toxicity (vapour): 6.2 mg/l 4 h (Ratte)

Acute oral toxicity:

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

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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.

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.

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

11.2. Information on other hazards

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	LC₅₀ : 0.06 – 160 mg/l 4 d (fish) EC₅₀ : 0.0077 mg/l 2 d (crustaceans) NOEC : 0.01 mg/l 21 d (crustaceans)
4,4' diphenylmethanediisocyanate, isomere, homologue and mixtures CAS No.: 9016-87-9 EC No.: 905-804-3	EC₅₀ : >1,000 mg/l (crustaceans, Daphnie) OECD 202, 24 h LC₅₀ : >1,000 mg/l 4 d (fish) OECD 203 EC₅₀ : >1,640 mg/l 3 d (Algae/water plant) OECD 201 NOEC : >10 mg/l 21 d (crustaceans, Daphnia magna (Big water flea)) OECD 211
Isocyanic acid, polymethylenepolyphenylene ester, polymer with .alpha.-hydro.-omega.-hydroxypolyoxy(methyl-1,2-ethanediyl) CAS No.: 53862-89-8	LC₅₀ : 1,000 mg/l 4 d (fish) OECD 203 EC₅₀ : 1,000 mg/l (crustaceans) OECD 202
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)
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)

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Substance name	Toxicological information
propylene carbonate CAS No.: 108-32-7 EC No.: 203-572-1	EC₅₀ : >1,000 mg/l 2 d (crustaceans, Daphnia magna (Big water flea)) OECD 202 EC₅₀ : >900 mg/l 3 d (Algae/water plant, Scenedesmus subspicatus) OECD 201 LC₅₀ : >1,000 mg/l 4 d (fish, Cyprinus carpio (Common Carp))
Reaktionsmasse von 4,4'-methyldiphenyldiisocyanat 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)
cyclohexanone CAS No.: 108-94-1 EC No.: 203-631-1	LC₅₀ : 527 - 732 mg/l 4 d (fish, Fisch)

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
4,4' diphenylmethanediisocyanate, isomere, homologue and mixtures CAS No.: 9016-87-9 EC No.: 905-804-3	Yes, slowly	
propylene carbonate CAS No.: 108-32-7 EC No.: 203-572-1	Yes, rapidly	

12.3. Bioaccumulative potential

Substance name	Log K _{OW}	Bioconcentration factor (BCF)
4,4' diphenylmethanediisocyanate, isomere, homologue and mixtures CAS No.: 9016-87-9 EC No.: 905-804-3		200
propylene carbonate CAS No.: 108-32-7 EC No.: 203-572-1	-0.5	

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

Substance name	Results of PBT and vPvB assessment
Alkanes, C14-17, chloro CAS No.: 85535-85-9 EC No.: 287-477-0	—
4,4' diphenylmethanediisocyanate, isomere, homologue and mixtures CAS No.: 9016-87-9 EC No.: 905-804-3	—
Isocyanic acid, polymethylenepolyphenylene ester, polymer with .alpha.-hydro-.omega.-hydroxypolyoxy(methyl-1,2-ethanediyl) CAS No.: 53862-89-8	—
4,4'-methylenediphenyl diisocyanate CAS No.: 101-68-8 EC No.: 202-966-0	—
Methyloxirane, polymer with oxirane, ether with oxybis(propanol). polymer with 1,1'-methylenebis(isocyanatobenzene), methyloxirane and oxirane CAS No.: 157937-75-2	—

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Substance name	Results of PBT and vPvB assessment
Reaktionsmasse von 4,4'-methyldiphenyldiisocyanat und O-(p-isocyanatbenzyl)phenylisocyanat	—
cyclohexanone CAS No.: 108-94-1 EC No.: 203-631-1	—

12.6. Endocrine disrupting properties

No data available

12.7. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Do not allow to enter into surface water or drains.

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product:

Remark:

The waste code has to be identified in agreement with the disposal company or the competent authority.

Waste code packaging:

Remark:

The waste code has to be identified in agreement with the disposal company or the competent authority.

Waste treatment options

Appropriate disposal / Product:




Consult the appropriate local waste disposal expert about waste disposal.

Unhardened product residues are special waste. Cured product residues are no hazardous waste. Dispose of hardened product residues as household-type industrial waste

Appropriate disposal / Package:

Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	
14.1. UN number or ID number			
UN 3082	UN 3082	UN 3082	
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	

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Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	
14.5. Environmental hazards			
		 MARINE POLLUTANT	
14.6. Special precautions for user			
Special provisions: 274,335,375,601 Limited quantity (LQ): 5 L Excepted Quantities (EQ): E1 Hazard identification number (Kemler No.): 90 Classification code: M6 tunnel restriction code: (-) Remark:	Special provisions: 274,335,375,601 Excepted Quantities (EQ): Classification code: M6 Remark:	Special provisions: 274,335,375,601 Limited quantity (LQ): 5 L Excepted Quantities (EQ): EmS-No.: F-A, S-F Remark:	

14.7. Maritime transport in bulk according to IMO instruments

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

Restrictions on use:

REACH Annex XVII no 56: Shall not be placed on the market after 27 December 2010, as a constituent of mixtures in concentrations equal to or greater than 0,1 % by weight of MDI for supply to the general public, unless suppliers shall ensure before the placing on the market that the packaging:

(a) contains protective gloves which comply with the requirements of Council Directive 89/686/EEC (*****);

(b) is marked visibly, legibly and indelibly as follows, and without prejudice to other Community legislation concerning the classification, packaging and labelling of substances and mixtures: Persons already sensitised to diisocyanates may develop allergic reactions when using this product. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.'

15.1.2. National regulations

[DE] National regulations

Restrictions of occupation

5 MuSchRiV. 22 JArbSchG. 4 MuSchRiV. People who suffer from skin sensitization problems, asthma, allergies, chronic or recurring respiratory illnesses should not be deployed in any process using this mixture.

Annex Chemikalien-Verbotsverordnung (ChemVerbotsV)

The disposal of this product requires the expertise resp. an annual instruction according to ChemVerbotsV. § 3 ChemVerbotsV § 4 ChemVerbotsV

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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)

Use of respiratory protective equipment, Irritating substances/Corrosive substances.

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	
H226	Flammable liquid and vapour.
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.

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Hazard statements

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. (...)
H373	May cause damage to organs through prolonged or repeated exposure. (...)
H400	Very toxic to aquatic life.
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.