

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 11.04.2022

Version 4

Revision: 11.04.2022

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name:** INSEBO Brunnenschaum, INSEBO Profi Brunnenschaum**1.2 Relevant identified uses of the substance or mixture and uses advised against****Application of the substance / the mixture** Polyurethane-sealant**1.3 Details of the supplier of the safety data sheet**

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**1.4 Emergency telephone number:** Call local emergency information.**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

Aerosol 1	H222-H229	Extremely flammable aerosol. Pressurised container: May burst if heated.
Acute Tox. 4	H332	Harmful if inhaled.
Skin Irrit. 2	H315	Causes skin irritation.
Eye Irrit. 2	H319	Causes serious eye 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.
Lact.	H362	May cause harm to breast-fed children.
STOT SE 3	H335	May cause respiratory irritation.
STOT RE 2	H373	May cause damage to organs through prolonged or repeated exposure.
Aquatic Chronic 4	H413	May cause long lasting harmful effects to aquatic life.

**Additional information:**

The calculation method takes into account the requirements of the CLP Regulation for the classification of aerosols in line with paragraph 1.1.3.7 of Annex I, Part 1, CLP.

Classification of the mixture is carried out in accordance with the standpoint of the Association of the European Adhesive & Sealant Industry of FEICA, who by using ecotoxicological tests supported the classification of foams containing max. 30% of chlorinated hydrocarbons such as Aquatic Chronic 4 H413.

**2.2 Label elements****Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

**Hazard pictograms**

GHS02 GHS07 GHS08

**Signal word** Danger**Hazard-determining components of labelling:**

diphenylmethanediisocyanate, isomeres and homologues

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**Trade name: INSEBO Brunnenschaum, INSEBO Profi Brunnenschaum**

chlorinated paraffins, C14-17

**Hazard statements**

- H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.  
H332 Harmful if inhaled.  
H315 Causes skin irritation.  
H319 Causes serious eye 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.  
H362 May cause harm to breast-fed children.  
H335 May cause respiratory irritation.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H413 May cause long lasting harmful effects to aquatic life.

**Precautionary statements**

- P102 Keep out of reach of children.  
P201 Obtain special instructions before use.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P211 Do not spray on an open flame or other ignition source.  
P251 Do not pierce or burn, even after use.  
P261 Avoid breathing vapours/spray.  
P263 Avoid contact during pregnancy and while nursing.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves, eye protection.  
P302+P352 IF ON SKIN: Wash with plenty of water and soap.  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P314 Get medical advice/attention if you feel unwell.  
P405 Store locked up.  
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.  
P501 Dispose of contents/container to hazardous or special waste collection point.

**Additional safetyphrases according to Annex XVII of the Commission Regulation No.1907/2006:**

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.

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

**2.3 Other hazards**

Medium chain chlorinated paraffins (MCCP) [UVCB substances consisting of more than or equal to 80% of linear chloroalkanes with a carbon chain length ranging from C14 to C17]: the substance has been included in the Candidate List for possible inclusion in Annex XIV of REACH. (published in accordance with Article 59 (10) of the REACH Regulation)

Reason for inclusion: PBT (Article 57d); vPvB (Article 57e)

**SECTION 3: Composition/information on ingredients****3.2 Mixtures**

**Description:** Mixture of substances listed below with non-hazardous additions.

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<b>Dangerous components:</b>		
CAS: 9016-87-9	diphenylmethanediisocyanate, isomeres and homologues Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335, EUH204 Specific concentration limits: 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 %	30 - 60%
CAS: 85535-85-9 EINECS: 287-477-0 Index number: 602-095-00-X Reg.No.: 01-2119519269-33	chlorinated paraffins, C14-17 Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Lact., H362, EUH066	> 30%
CAS: 75-28-5 EINECS: 200-857-2 Index number: 601-004-00-0 Reg.No.: 01-2119485395-27	isobutane (< 0.1% butadiene) Flam. Gas 1A, H220; Press. Gas (Comp.), H280	5 - 10%
CAS: 115-10-6 EINECS: 204-065-8 Index number: 603-019-00-8 Reg.No.: 01-2119472128-37	dimethyl ether Flam. Gas 1A, H220; Press. Gas (Comp.), H280	5 - 10%
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5 Reg.No.: 1-2119486944-21	propane Flam. Gas 1A, H220; Press. Gas (Comp.), H280	1 - 5%
CAS: 9041-53-2	reaction mass of 2-ethylpropane-1,3-diol and 5-ethyl-1,3-dioxane-5-methanol and propylidynetrimethanol Eye Irrit. 2, H319	1 - 4%

**SVHC**

CAS: 85535-85-9 | chlorinated paraffins, C14-17

**Additional information:** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

**4.1 Description of first aid measures****General information:**

In case of accident or if you feel unwell seek medical advice (show label where possible).

In case of unconsciousness place patient stably in side position for transportation.

**After inhalation:** Supply fresh air, keep warm and at rest. If symptoms persist seek medical advice.**After skin contact:**

Remove contaminated clothes. Rinse skin thoroughly with water and soap. In case of irritation seek medical treatment.

**After eye contact:**

Remove contact lenses, if present and easy to do. Rinse opened eyes for at least 15 minutes with plenty of water. If irritation persists seek medical advice.

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**After swallowing:** Seek medical advice immediately and show the container or label.

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

MDI:

Inhalation: irritation of the respiratory tract, cough, dyspnea, breathing difficulties, asthma

Skin contact: irritation, erythema

Eye contact: pain or irritation, lacrimation, redness

Ingestion: irritation of the gastrointestinal tract

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

**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

**Suitable extinguishing agents:** CO<sub>2</sub>, extinguishing powder, sand, soil

**For safety reasons unsuitable extinguishing agents:** Water

**5.2 Special hazards arising from the substance or mixture**

Product contains highly flammable vapours and liquids. Formation of smoke in case of fire; carbon oxides, soot, hydrocarbons and aldehydes can be released due to incomplete combustion and thermolysis.

Risk of bursting due to heat. Formation of explosive air/vapour mixtures are possible. Vapors are heavier than air. By distribution at ground level flash back to distant ignition sources is possible.

**5.3 Advice for firefighters**

**Protective equipment:**

In the case of fire wear self-contained respiratory equipment and full protective suit.

Do not inhale explosion gases or combustion gases.

**Additional information**

Cool endangered receptacles with water spray. Contain runoff to prevent entry into water or drainage systems.

Dispose of fire debris and contaminated fire fighting water according to the regulations.

**SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures**

Please notice instructions for person-related safety precautions, wear protective equipment (see 8.)

Avoid inhalation and contact with skin and eyes.

Keep unprotected persons away. Ensure adequate ventilation.

Keep away from ignition sources.

**6.2 Environmental precautions:**

Do not allow to enter sewers, surface or ground water.

Advise water authority in case of seepage into water course or sewage system.

**6.3 Methods and material for containment and cleaning up:**

Cover with sand or damp soil.

Allow to solidify and remove mechanically.

Dispose contaminated material as waste according to item 13.

Remove residues using PU foam cleaner.

**Additional information:** Material automatically cures when exposed to air.

**6.4 Reference to other sections**

See Section 7 for information on safe handling.

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See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

While handling pay attention to the usual precaution for chemicals.  
Comply with instructions for use.  
Avoid any contact with skin, eyes and clothes.  
Do not breathe gas/vapours/spray.  
Provide good ventilation/exhaustion at the workplace.  
Wash hands before break and at the end of work.

**Information about fire - and explosion protection:**



Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.  
Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights.  
Do not pierce or burn, even after use.  
Vapours are heavier than air. They can spread along the ground and form mixtures that are explosive with air.  
Do not spray on an open flame or glowing objects.

**7.2 Conditions for safe storage, including any incompatibilities**

**Requirements to be met by storerooms and receptacles:**

Store in cool, dry place in tightly closed original containers.  
Storage regulations for pressurized gas receptacles must be observed.  
Suitable material for receptacles: FE (40) or ALU (41)

**Information about storage in one common storage facility:**

Do not store food, beverages and animal feeding stuffs in the storage area.

**Further information about storage conditions:**

Keep out of the reach of children and domestic animals.  
Protect from heat and direct sunlight.

**Class according to regulation on flammable liquids:** Void

**7.3 Specific end use(s)** Sealant

**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

**Ingredients with limit values that require monitoring at the workplace:**

**CAS: 9016-87-9 diphenylmethanediisocyanate, isomeres and homologues**

MAK (Austria)	Short-term value: 0.1 mg/m <sup>3</sup> , 0.01 ppm; Long-term value: 0.05 mg/m <sup>3</sup> , 0.005 ppm Gruppeneintrag Diphenylmethan-diisocyanat
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AGW (Germany)	Long-term value: 0.05 E mg/m <sup>3</sup> ; 1;=2=(I);DFG, H, Sah, Y, 12
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**CAS: 75-28-5 isobutane (< 0.1% butadiene)**

MAK (Austria)	Short-term value: 3800 mg/m <sup>3</sup> , 1600 ppm; Long-term value: 1900 mg/m <sup>3</sup> , 800 ppm
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AGW (Germany)	Long-term value: 2400 mg/m <sup>3</sup> , 1000 ppm; 4(II);DFG
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<b>CAS: 115-10-6 dimethyl ether</b>	
MAK (Austria)	Short-term value: 3820 mg/m <sup>3</sup> , 2000 ppm; Long-term value: 1910 mg/m <sup>3</sup> , 1000 ppm
IOELV (EU)	Long-term value: 1920 mg/m <sup>3</sup> , 1000 ppm
AGW (Germany)	Long-term value: 1900 mg/m <sup>3</sup> , 1000 ppm; 8(II);DFG, EU
<b>CAS: 85535-85-9 chlorinated paraffins, C14-17</b>	
MAK (Austria)	see Annex III B
AGW (Germany)	Long-term value: 6 E mg/m <sup>3</sup> , 0.3 E ppm; 8(II);H, Y, 11, AGS
<b>CAS: 74-98-6 propane</b>	
MAK (Austria)	Short-term value: 3600 mg/m <sup>3</sup> , 2000 ppm; Long-term value: 1800 mg/m <sup>3</sup> , 1000 ppm
AGW (Germany)	Long-term value: 1800 mg/m <sup>3</sup> , 1000 ppm; 4(II);DFG

**Regulatory information**

MAK (Austria): GKV 2020, 156. Verordnung, 09.04.2021, Teil II

AGW (Germany): TRGS 900

IOELV (EU): (EU) 2019/1831

**DNELs:**

methylenediphenyl diisocyanate (CAS 101-68-8)

worker, short-term exposure - local and systemic effects, inhalation 0.1 mg/m<sup>3</sup>

worker, long-term exposure - local and systemic effects, inhalation 0.05 mg/m<sup>3</sup>

worker, short-term exposure - local effects, dermal 28.7 mg/cm<sup>2</sup>

worker, short-term exposure - systemic effects, dermal 50 mg/kg bw/day

consumer, short-term exposure - systemic effects, oral 20 mg/kg bw/day

consumer, short-term exposure - local and systemic effects, inhalation 0.05 mg/m<sup>3</sup>

consumer, long-term exposure - local and systemic effects, inhalation 0.025 mg/m<sup>3</sup>

consumer, short-term exposure - local effects, dermal 17.2 mg/cm<sup>2</sup>

consumer, short-term exposure - systemic effects, dermal 25 mg/kg bw/day

chlorinated paraffins, C14-17 (CAS 85535-85-9):

worker, long-term exposure - systemic effects, Inhalation 6.7 mg/m<sup>3</sup>

worker, long-term exposure - systemic effects, dermal 47.9 mg/kg bw/day

consumer, long-term exposure - local effects, oral 0.58 mg/kg bw/day

consumer, long-term exposure - systemic effects, Inhalation 2 mg/m<sup>3</sup>

consumer, long-term exposure - systemic effects, dermal 28.75 mg/kg bw/day

**PNECs:**

methylenediphenyl diisocyanate (CAS: 101-68-8)

freshwater 1 mg/l, marine water 0.1 mg/l;

intermittent releases 10 mg/l; STP 1 mg/l; soil 1 mg/kg

chlorinated paraffins, C14-17 (CAS 85535-85-9):

PNEC freshwater 0.001 mg/l, marine water 0.0002 mg/l

PNEC sediment freshwater 5 mg/kg, marine water 1 mg/kg

PNEC intermittent releases (soil) 10.5 mg/kg, PNEC STP 80 mg/l, soil 0,34 mg/kg

**8.2 Exposure controls**

**Appropriate engineering controls** Provide good ventilation or exhaust at work.

**Individual protection measures, such as personal protective equipment**

**General protective and hygienic measures:**

Avoid unnecessary contact with the product. Do not eat, drink or smoke at workplace and keep it tidy.

Avoid inhalation and contact with skin and eyes.

Remove contaminated clothing immediately and wash carefully before reuse.

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Ensure thorough skin cleansing after use.  
Pregnant women should strictly avoid inhalation or skin contact.

**Respiratory protection:**

Use protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) in case of insufficient ventilation.

**Hand protection**



Chemical resistant gloves (EN 374)

Dispose of when contaminated inside, when perforated or when contamination outside cannot be removed.

**Material of gloves**

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. Butyl rubber (thickness  $\geq 0.5$  mm), fluorinated elastomer (thickness  $\geq 0.4$  mm), chlorinated polyethylene, ethylene vinyl alcohol (EVOH), neoprene (thickness  $\geq 0.5$  mm), nitrile/butadiene rubber (NBR, thickness  $\geq 0.35$  mm), polyvinyl chloride (PVC)

Rate of permeability:  $\geq 480$  minutes

**Penetration time of glove material**

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

**Eye/face protection**



Safety glasses (EN 166)

**Body protection:** Protective work clothing

**Environmental exposure controls**

Do not allow to enter sewers or surface water. Advise water authority if spillage has entered water course or drainage system.

**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

<b>Form:</b>	Foam aerosols
<b>Colour:</b>	According to product specification
<b>Odour:</b>	Characteristic
<b>Odour threshold:</b>	Not determined
<b>Melting point/freezing point:</b>	$< 0$ °C (MDI, ISO 3016)
<b>Boiling point or initial boiling point and boiling range:</b>	Not applicable, as aerosol.
<b>Flammability:</b>	Extremely flammable.
<b>Lower and upper explosion limit:</b>	
<b>Lower:</b>	1.5 Vol % (propellant)
<b>Upper:</b>	16 Vol% (propellant)
<b>Flash point:</b>	$> 200$ °C (MDI, DIN 53171)
<b>Ignition temperature:</b>	$> 350$ °C (propellant)
<b>Decomposition temperature:</b>	To avoid thermal decomposition do not overheat.
<b>pH:</b>	No data available

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**Trade name: INSEBO Brunnenschaum, INSEBO Profi Brunnenschaum**

<b>Viscosity dynamic:</b>	≥ 200 mPas (MDI, DIN 53019, 20 °C)
<b>Solubility water:</b>	Insoluble; reacts with water
<b>organic solvents:</b>	Soluble before curing
<b>Partition coefficient, n-octanol/water:</b>	No data available.
<b>Vapour pressure:</b>	< 0.7 mPa (propellant, 20 °C)
<b>Vapour pressure:</b>	< 0.00001 hPa (MDI)
<b>Density at 20 °C:</b>	1.0 g/cm <sup>3</sup>

<b>9.2 Other information</b>	
<b>Ignition temperature:</b>	> 500 °C (MDI, DIN 51794)
<b>Explosive properties:</b>	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
<b>VOC (EC):</b>	≈ 0.2 kg/kg
<b>Oxidising properties:</b>	No data available.

<b>Information with regard to physical hazard classes</b>	
<b>Explosives</b>	Void
<b>Flammable gases</b>	Void
<b>Aerosols</b>	
Extremely flammable aerosol. Pressurised container: May burst if heated.	
<b>Oxidising gases</b>	Void
<b>Gases under pressure</b>	Void
<b>Flammable liquids</b>	Void
<b>Flammable solids</b>	Void
<b>Self-reactive substances and mixtures</b>	Void
<b>Pyrophoric liquids</b>	Void
<b>Pyrophoric solids</b>	Void
<b>Self-heating substances and mixtures</b>	Void
<b>Substances and mixtures, which emit flammable gases in contact with water</b>	Void
<b>Oxidising liquids</b>	Void
<b>Oxidising solids</b>	Void
<b>Organic peroxides</b>	Void
<b>Corrosive to metals</b>	Void
<b>Desensitised explosives</b>	Void

## SECTION 10: Stability and reactivity

**10.1 Reactivity** Stable in standard stocking and use conditions.

**10.2 Chemical stability** Stable under recommended storage conditions.

**10.3 Possibility of hazardous reactions** Danger of polymerisation.

### 10.4 Conditions to avoid

Heat, open flames, ignition sources, electrostatic charge  
Heating causes rise in pressure with risk of bursting.

### 10.5 Incompatible materials:

Strong oxidizing agents, strong acids, water



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When in contact with water, the pressure and temperature in the can increases.

**10.6 Hazardous decomposition products:**

None under normal conditions of storage and use.

In the case of fire can be formed: carbon oxides, nitrogen oxides hydrogen cyanide, toxic pyrolysis products

**SECTION 11: Toxicological information**

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

**Acute toxicity**

Harmful if inhaled.

**LD/LC50 values relevant for classification:** There are no product specific data on toxicology available.

**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 toxicological information:**

pMDI:

In case of exposure to high levels, danger of irritating effects on eyes, nose, throat and respiratory tract irrespective of the concentration arises. Symptoms (breathing difficulties, cough, asthma) may even occur after several hours; Persons already sensitised to diisocyanates may develop allergic reactions even at very low concentrations of the substance. Long-term exposure may cause skin dryness or skin degreasing.

**11.2 Information on other hazards**

**Endocrine disrupting properties** None of the ingredients is listed.

**SECTION 12: Ecological information**

**12.1 Toxicity**

**Aquatic toxicity:**

For the product there are no ecotoxicological data available.

**CAS: 9016-87-9 diphenylmethanediisocyanate, isomeres and homologues**

LC50/96h (static) > 1,000 mg/l (zebrafish, Danio rerio) (OECD 203)

EC50/24h (static) > 1,000 mg/l (water flea, Daphnia magna) (OECD 202)

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ErC50/72h	> 1.640 mg/l (alga, Desmodesmus subspicatus) (OECD 201)
EC50/3h	> 100 mg/l (activated sludge) (OECD 209)
NOEC/21d	> 10 mg/l (water flea, Daphnia magna) (OECD 211)
<b>CAS: 85535-85-9 chlorinated paraffins, C14-17</b>	
LC50/96h	≥ 1 mg/l (Gammarus pulex) ≥ 5,000 mg/l (common bleak, Alburnus alburnus)
EC50/48h	0.006 mg/l (water flea, Daphnia magna)
EC50/96h	≥ 3.2 mg/l (alga, Desmodesmus subspicatus)

**Additional information:** Insoluble in water, the PU foam spreads on the water surface.

**12.2 Persistence and degradability**

MDI: not readily biodegradable.

test: aerobic, inoculum: activated sludge

degradability: 0 %, 28 days (OECD Guideline 302 C)

chlorinated paraffins, C14-17:

The concentrations are most likely very small given the low volatility. Assumed atmospheric half-life: 1-2 days.

Biodegradation in soil: Studies conducted on C14.5 C15.4 (average length of chain C) with 43.5% and 50% chlorination showed 57% and 51% decomposition of the tested substance after 36 hours. Biological decomposition in water and sediments: The simulation tests carried out on two C16 paraffins (chlorinated paraffins containing 35% C12 and 58% C12) showed a half-life (DT50) of 12 days and 58 days in fresh water sediment. Translated with [www.DeepL.com/Translator](http://www.DeepL.com/Translator) (free version)

**12.3 Bioaccumulative potential**

MDI:

bioconcentration factor (BCF): <14 (OECD Guideline 305)

(Cyprinus carpio, exposure time 42 d, concentration 0.2 mg/l)

No significant accumulation in organisms, the substance hydrolyses violently in water.

chlorinated paraffins, C14-17: limited bioaccumulation potential (BCF <2000, BMF <1)

**12.4 Mobility in soil** Very limited due to chemical reaction with water to form an insoluble product (PU foam).

**12.5 Results of PBT and vPvB assessment** Not applicable.

**12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

**12.7 Other adverse effects**

Isocyanate reacts with water at the interface forming CO<sub>2</sub> and a solid insoluble product with high melting point (polyurea). This reaction is accelerated by surfactants (e.g. detergents) or by water-soluble solvents. Previous experience shows that polyurea is inert and non-degradable.

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

**Recommendation**

Do not dispose waste or remains together with domestic waste, do not empty into sink or toilet, hand over to hazardous waste disposers.

**European waste catalogue**

08 05 01: waste isocyanates

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15 01 11: metallic packaging containing a hazardous solid porous matrix (for example asbestos), including empty pressure containers

**Uncleaned packaging**

**Recommendation:**

Cans should be emptied completely and should preferably be recycled or reused in compliance with the local / national regulations. Cans not emptied completely or remains have to be disposed as hazardous waste.

**SECTION 14: Transport information**

**14.1 UN number or ID number**  
ADR, IMDG, IATA

UN1950

**14.2 UN proper shipping name**  
ADR

1950 AEROSOLS, ENVIRONMENTALLY  
HAZARDOUS  
IMDG  
AEROSOLS, MARINE POLLUTANT  
IATA  
AEROSOLS

**14.3 Transport hazard class(es)**

ADR



Class  
Label  
IMDG

2.5F Gases.  
2.1



Class  
Label  
IATA

2 Gases.  
2.1



Class  
Label

2 Gases.  
2.1

**14.4 Packing group**  
ADR, IMDG, IATA

Void

**14.5 Environmental hazards:**

Not applicable.

**14.6 Special precautions for user**  
**Hazard identification number (Kemler code):**  
**EMS Number:**

Warning: Gases.  
-  
F-D,S-U

**Safety data sheet**  
according to 1907/2006/EC, Article 31

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**14.7 Maritime transport in bulk according to IMO instruments**

Not applicable.

**UN "Model Regulation":**

UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS

**SECTION 15: Regulatory information**

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

**Regulation (EC) No 1907/2006 Annex XVII** Conditions of restriction: 3

**National regulations:** -

**Water hazard class:** Water hazard class (German Regulation) 1 (self-assessment): slightly hazardous for water.

**Substances of very high concern (SVHC) according to REACH, Article 59**

CAS: 85535-85-9 | chlorinated paraffins, C14-17

**VOC (EC):** ≈ 0.2 kg/kg

**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Relevant phrases**

- H220 Extremely flammable gas.
- H280 Contains gas under pressure; may explode if heated.
- 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.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- EUH066 Repeated exposure may cause skin dryness or cracking.
- EUH204 Contains isocyanates. May produce an allergic reaction.

**Further information:**

Classification of mixtures: Calculation method for toxicological hazards; the classification of the mixture as harmful to the aquatic environment (H413) is in accordance with the bridging principles (Annex I, 1.1.3.5 of Regulation (EC) no. 1272/2008) based on ecotoxicological tests of standard foams with max. 30 % chlorinated paraffins (CAS 85535-85-9).

**Date of previous version:** 18.03.2022

**Abbreviations and acronyms:**

CLP: REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

**Safety data sheet**  
**according to 1907/2006/EC, Article 31**

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CAS: Chemical Abstracts Service (division of the American Chemical Society)  
EINECS: European Inventory of Existing Commercial Chemical Substances  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
WEL: workplace exposure limit  
MAK: maximum concentration of a chemical substance in the workplace  
IOELV: indicative occupational exposure limit values (EU)  
AGW: occupational exposure limit  
DNEL: Derived No-Effect Level  
PNEC: Predicted No-Effect Concentration  
LC50: lethal concentration, 50%  
EC50: maximal effective concentration, 50%  
NOEL/NOEC: No Observed Effect Concentration  
OECD: Organisation for Economic Co-operation and Development  
log Pow, Kow: partition coefficient (n-octanol/water)  
PBT: persistent, bioaccumulative and toxic properties  
vPvB: very persistent and very bioaccumulative properties  
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
Flam. Gas 1A: Flammable gases – Category 1A  
Aerosol 1: Aerosols – Category 1  
Press. Gas (Comp.): Gases under pressure – Compressed gas  
Acute Tox. 4: Acute toxicity – Category 4  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
Resp. Sens. 1: Respiratory sensitisation – Category 1  
Skin Sens. 1: Skin sensitisation – Category 1  
Carc. 2: Carcinogenicity – Category 2  
Lact.: Reproductive toxicity – effects on or via lactation  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2  
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1  
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1  
Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4

**Data compared to the previous version altered:**

Section 2, 8

Section 2,3,8,10,12,13,16