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

1.1. Product identifier

Trade name/designation:

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Other means of identification:

4180c

UFI:

NVJC-705F-Y006-62N3

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

Use of the substance/mixture:

Two-component product based on polyurethane resin, which forms a diffusion-inhibiting layer after drying and cross-linking. In accordance with the manufacturer's instructions, the vapour barrier layer is used exclusively in exterior areas on concrete in single-skin, non-ventilated roof constructions.

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 9a:	Coatings and paints, thinners, paint removers
	Process categories [PROC]
PROC 10:	Roller application or brushing
	Environmental release categories [ERC]
ERC 9b:	Widespread use of functional fluid (outdoor)
	Article categories [AC]
AC 0:	Other

Uses advised against:

	Life cycle stage [LCS]
C:	Consumer use

1.3. Details of the supplier of the safety data sheet

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

Soprema
Mammutfeld 1
56479 Oberroßbach
Germany
Telephone: +49.2667.8733.0
Telefax: +49.2667.8733.951
E-mail: info@soprema.de
Website: www.soprema.de

E-mail (competent person): sds@soprema.fr
CARECHEM 24

1.4. Emergency telephone number

CARECHEM 24, 24h: +44 (0) 1 235 239 670

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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
flammable liquids *(Flam. Liq. 3)*	H226: Flammable liquid and vapour.	On basis of test data.
Skin corrosion/irritation *(Skin Irrit. 2)*	H315: Causes skin irritation.	Calculation method.
Respiratory or skin sensitisation *(Skin Sens. 1)*	H317: May cause an allergic skin reaction.	Calculation method.
STOT-single exposure *(STOT SE 3)*	H336: May cause drowsiness or dizziness.	Calculation method.
Carcinogenicity *(Carc. 2)*	H351: Suspected of causing cancer.	Calculation method.
Hazardous to the aquatic environment *(Aquatic Chronic 2)*	H411: 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:

GHS08
Health hazard

GHS09
Environment

GHS07
Exclamation mark

GHS02
Flame

Signal word: Danger

Hazard components for labelling:

Isocyanic acid, polymethylenepolyphenylene ester; Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanateand o-(p-isocyanatobenzyl)phenyl isocyanate; Hydrocarbons, C8-C9, isoalkanes; Kohlenwasserstoffen, C9-C10, n-/ iso-/ cyclo- Alkane, < 2% Aromaten

Hazard statements for physical hazards	
H226	Flammable liquid and vapour.

Hazard statements for health hazards	
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.

Hazard statements for environmental hazards	
H411	Toxic to aquatic life with long lasting effects.

Supplemental hazard information	
EUH204	Contains isocyanates. May produce an allergic reaction.

Precautionary statements Prevention	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/....

Precautionary statements Response	
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Precautionary statements Disposal	
P501	Dispose of contents/container to according to national and regional regulations to the waste.

2.3. Other hazards
No data available

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.: 246538-71-6 EC No.: 932-020-9 REACH No.: 01-2119548395-31	**Hydrocarbons, C8-C9, isoalkanes** Aquatic Chronic 2 (H411), Asp. Tox. 1 (H304), Flam. Liq. 3 (H226), STOT SE 3 (H336), Skin Irrit. 2 (H315)  Danger **Acute Toxicity Estimate** ATE (oral) 7,100 – 7,800 mg/kg ATE (dermal) 2,200 – 2,500 mg/kg ATE (inhalation, vapour) > 9.4 mg/L	10 – 20 weight-%
EC No.: 923-037-2 REACH No.: 01-2119471991-29	**Paraffinkohlenwasserstofen** Aquatic Chronic 2 (H411), Asp. Tox. 1 (H304), Flam. Liq. 3 (H226)  Danger **Acute Toxicity Estimate** ATE (oral) 5,000 – < 15,000 mg/kg ATE (dermal) > 2,000 mg/kg ATE (inhalation, gases) 41 – < 14,467 ppmV ATE (inhalation, dust/mist) 9.3 – < 4,951 mg/L	10 – 20 weight-%
EC No.: 927-241-2 Index No.: 649-327-00-6 REACH No.: 01-2119471843-32	**Kohlenwasserstoffen, C9-C10, n-/ iso-/ cyclo- Alkane, < 2% Aromaten** Aquatic Chronic 3 (H412), Asp. Tox. 1 (H304), Flam. Liq. 3 (H226), STOT SE 3 (H336)  Danger **Acute Toxicity Estimate** ATE (oral) > 6,000 mg/kg ATE (dermal) > 5,000 mg/kg ATE (inhalation, vapour) > 5 mg/L	10 – 20 weight-%
CAS No.: 9016-87-9 EC No.: 618-498-9 Index No.: 615-005-00-9	**Isocyanic acid, polymethylenepolyphenylene ester** Acute Tox. 4 (H332), Carc. 2 (H351), Eye Irrit. 2 (H319), Resp. Sens. 1 (H334), STOT RE 2 (H373), STOT SE 3 (H335), Skin Irrit. 2 (H315), Skin Sens. 1 (H317)  Danger **Acute Toxicity Estimate** ATE (oral) > 10,000 mg/kg ATE (dermal) > 9,400 mg/kg ATE (inhalation, dust/mist) 0.49 mg/L	5 – 10 weight-%
EC No.: 905-806-4 REACH No.: 01-2119457015-45	**Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanateand o-(p-isocyanatobenzyl)phenyl isocyanate** Acute Tox. 4 (H332), Carc. 2 (H351), Eye Irrit. 2 (H319), Resp. Sens. 1 (H334), STOT RE 2 (H373), STOT SE 3 (H335), Skin Irrit. 2 (H315), Skin Sens. 1 (H317)  Danger **Specific concentration limit (SCL)** Resp. Sens. 1; H334: 0.1% ≤ C < 100% Skin Irrit. 2; H315: 5% ≤ C < 100% STOT SE 3; H335: 5% ≤ C < 100% STOT SE 3; H335: 5% ≤ C < 100% **Acute Toxicity Estimate** ATE (oral) > 2,000 mg/kg ATE (dermal) > 9,400 mg/kg ATE (inhalation, vapour) 0.368 mg/L	0.1 – 1 weight-%

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

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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.

Following inhalation:
Provide fresh air. In case of respiratory tract irritation, consult a physician. Get medical advice/attention if you feel unwell. 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.

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

After eye contact:
In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

Following ingestion:
Rinse mouth. Let 1 glass of water be drunken in little sips (dilution effect). Get medical advice/attention if you feel unwell. Do NOT induce vomiting.

Self-protection of the first aider:
Use personal protection equipment. First aider: Pay attention to self-protection!

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

Skin corrosion/irritation, Dizziness, Dizziness. Allergic reactions, Asthmatic complaints, Respiratory 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:
Water spray jet, alcohol resistant foam, Extinguishing powder, Carbon dioxide (CO2).

Unsuitable extinguishing media:
Strong water jet

5.2. Special hazards arising from the substance or mixture

Combustible. Flammable liquid and vapour.

Hazardous combustion products:
In case of fire: Gases/vapours, toxic.

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.

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. Stop leak if safe to do so. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Avoid contact with eyes.

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.

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). Move undamaged containers from immediate hazard area if it can be done safely.

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

Other information:
Product residues: Delivery to an approved waste disposal company.

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). Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only antistatically equipped (spark-free) tools. Take action to prevent static discharges. Flammable vapors may form in the container. Use only outdoors or in a well-ventilated area. Do not breathe dust/fume/gas/mist/vapours/spray.

Fire prevent measures:
Take precautionary measures against static discharge. Keep away from sources of ignition - No smoking.

Measures to prevent aerosol and dust generation:
Use only outdoors or in a well-ventilated area. Handle and open container with care. If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means.

Environmental precautions:
Do not allow to enter into surface water or drains.

Advices on general occupational hygiene

When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes.

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:
Keep container tightly closed and in a well-ventilated place.

Hints on storage assembly:
Observe special storage conditions. Only substances of the same storage class should be stored together.
Separate storage required:
LGK 1, LGK 2A, LGK 4.1A, LGK 4.1B, LGK 4.2, LGK 4.3, LGK 5.1A, LGK 5.1C, LGK 5.2, LGK 6.1B, LGK 6.2, LGK 7.
Restricted storage allowed:
LGK 5.1B, LGK 6.1D, LGK 11, LGK 10-13
LGK 5.1B: up to 1t no restrictions.
up to 20t condition is in buildings:
- an automatic fire extinguishing system is present or

- an automatic fire alarm system in connection with a non automatic fire extinguishing system and a recognized plant fire department.
LGK 10-13; LGK 11:
In the same storage section, materials which, by their nature and quantity, are liable to contribute to the development or rapid spread of fires, such as paper, textiles, wood, wood wool, cardboard, foils or combustible packaging fillers, may not be stored in the same storage section unless they form a unit with the portable containers for storage and transport.
LGK6.1D:
The hazardous substances may only be stored together with hazardous substances of other storage classes, which are assigned No. 6 in Table 12 (TRGS 510), and with other materials if this does not result in a significant increase in risk.
No. 6 in Table 12 (TRGS 510) and with other materials may only be stored together if a significant increase in risk cannot occur as a result. A significant increase in risk can be avoided by storing the materials separately.
Storage together allowed:
LGK 2B, LGK 3, LGK 6.1A, LGK 6.1C, LGK 8A, LGK 8B, LGK 10, LGK 12, LGK 13.

Storage class (TRGS 510, Germany): 3 – Flammable liquids

7.3. Specific end use(s)

Recommendation:

Two-component product based on polyurethane resin, which forms a diffusion-inhibiting layer after drying and cross-linking. In accordance with the manufacturer's instructions, the vapour barrier layer is used exclusively in exterior areas on concrete in single-skin, non-ventilated roof constructions.

Industrial sector specific solutions:

PU systems, harmful, CMR suspected, containing solvent (>10% VOC)

GISCODE:

PU50

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) from 30 Nov 2017	**Kohlenwasserstoffen, C9-C10, n-/ iso-/ cyclo- Alkane, < 2% Aromaten** EC No.: 927-241-2	① 300 mg/m³ ② 600 mg/m³ ⑤ (Kohlenwasserstoffe, aliphatisch, C9-C14)
DFG (DE) from 1 Jul 2019	**Kohlenwasserstoffen, C9-C10, n-/ iso-/ cyclo- Alkane, < 2% Aromaten** EC No.: 927-241-2	① 50 ppm (300 mg/m³) ② 100 ppm (600 mg/m³)
TRGS 900 (DE)	**Isocyanic acid, polymethylenepolyphenylene ester** CAS No.: 9016-87-9 EC No.: 618-498-9	① 0.05 mg/m³ ② 0.05 mg/m³ ③ 0.1 mg/m³ ⑤ (als MDI berechnet), (einatembare Fraktion), kann über die Haut aufgenommen werden DFG, H, Sah, Y, 12

8.1.2. Biological limit values

No data available

8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
Kohlenwasserstoffen, C9-C10, n-/ iso-/ cyclo- Alkane, < 2% Aromaten EC No.: 927-241-2	871 mg/m³	① DNEL worker ② Long-term – inhalation, systemic effects
Kohlenwasserstoffen, C9-C10, n-/ iso-/ cyclo- Alkane, < 2% Aromaten EC No.: 927-241-2	185 mg/m³	① DNEL Consumer ② Long-term – inhalation, systemic effects
Kohlenwasserstoffen, C9-C10, n-/ iso-/ cyclo- Alkane, < 2% Aromaten EC No.: 927-241-2	77 mg/kg bw/ day	① DNEL worker ② Long-term - dermal, systemic effects
Kohlenwasserstoffen, C9-C10, n-/ iso-/ cyclo- Alkane, < 2% Aromaten EC No.: 927-241-2	46 mg/kg bw/ day	① DNEL Consumer ② Long-term - dermal, systemic effects
Kohlenwasserstoffen, C9-C10, n-/ iso-/ cyclo- Alkane, < 2% Aromaten EC No.: 927-241-2	46 mg/kg bw/ day	① DNEL Consumer ② Long-term - oral, systemic effects

8.2. Exposure controls

8.2.1. Appropriate engineering controls

If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

8.2.2. Personal protection equipment

Eye/face protection:

Eye glasses with side protection EN 166.

Skin protection:

Tested protective gloves must be worn EN ISO 374. Suitable material: NBR (Nitrile rubber). 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. Wear cotton undermitten if possible.

Respiratory protection:

In case of inadequate ventilation wear respiratory protection. Filtering device with filter or ventilator filtering device of type: AX

Thermal hazards:

Protect from sunlight. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

8.2.3. Environmental exposure controls

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid

Colour: black

Odour: Hydrocarbons, aliphatic

Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	*No data available*		
Melting point	*No data available*		
Freezing point	*No data available*		
Initial boiling point and boiling range	*No data available*		

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Parameter	Value	at °C	① Method ② Remark
Flash point	> 24 °C		
Evaporation rate	*No data available*		
Auto-ignition temperature	*No data available*		
Upper/lower flammability or explosive limits	*No data available*		
Vapour pressure	*No data available*		
Vapour density	*No data available*		
Density	0.85 g/cm³	20 °C	
Bulk density	*not applicable*		
Water solubility	*No data available*		
Dynamic viscosity	2.5 Pa* s	40 °C	
Kinematic viscosity	2,941.2 mm²/s	40 °C	

9.2. Other information
No data available

SECTION 10: Stability and reactivity

10.1. Reactivity
Flammable liquid and vapour.

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

10.3. Possibility of hazardous reactions
No hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5. Incompatible materials
No further relevant information available.

10.6. Hazardous decomposition products
Gases/vapours, toxic.

SECTION 11: Toxicological information

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

Hydrocarbons, C8-C9, isoalkanes CAS No.: 246538-71-6 EC No.: 932-020-9
LD_{50} oral: 7,100 – 7,800 mg/kg (Ratte)
LD_{50} dermal: 2,200 – 2,500 mg/kg (rat)
LC_{50} Acute inhalation toxicity (vapour): >9.4 mg/L (Kaninchen)
Paraffinkohlenwasserstofen EC No.: 923-037-2
LD_{50} oral: 5,000 – <15,000 mg/kg (Rat)
LD_{50} dermal: >2,000 mg/kg
LC_{50} Acute inhalation toxicity (gas): 41 – <14,467 ppmV 8 h (Rat)
LC_{50} Acute inhalation toxicity (vapour): 5 mg/L 8 h (Rat)
LC_{50} Acute inhalation toxicity (dust/mist): 9.3 – <4,951 mg/L 8 h (Rat)
Kohlenwasserstoffen, C9-C10, n-/ iso-/ cyclo- Alkane, < 2% Aromaten EC No.: 927-241-2
LD_{50} oral: >6,000 mg/kg (Rat)
LD_{50} dermal: >5,000 mg/kg (Rabbit)
LC_{50} Acute inhalation toxicity (vapour): >5 mg/L 4 h (Rat)

Isocyanic acid, polymethylenepolyphenylene ester CAS No.: 9016-87-9 EC No.: 618-498-9	
LD_{50} oral: >10,000 mg/kg (Ratte)	
LD_{50} dermal: >9,400 mg/kg (Kaninchen)	
LC_{50} Acute inhalation toxicity (dust/mist): 0.49 mg/L 4 h (Ratte) OECD 403	
Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanateand o-(p-isocyanatobenzyl)phenyl isocyanate EC No.: 905-806-4	
LD_{50} oral: >2,000 mg/kg (Ratte)	
LD_{50} dermal: >9,400 mg/kg	
LC_{50} Acute inhalation toxicity (vapour): 0.368 mg/L (Kaninchen)	

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

Skin corrosion/irritation:
Causes skin irritation.

Serious eye damage/irritation:
Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation:
May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. Contains isocyanates. 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:
Based on available data, the classification criteria are not met.

STOT-single exposure:
May cause drowsiness or dizziness.

STOT-repeated exposure:
Based on available data, the classification criteria are not met.

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

Additional information:
No data available

11.2. Information on other hazards

Endocrine disrupting properties:
This information is not available.

SECTION 12: Ecological information

12.1. Toxicity

Hydrocarbons, C8-C9, isoalkanes CAS No.: 246538-71-6 EC No.: 932-020-9	
LC_{50}: 18.4 mg/L (fish, Oncorhynchus mykiss)	
EC_{50}: 2.4 mg/L (crustaceans, Daphnia magna)	
NOEC: 0.17 mg/L 21 d (Daphnia magna)	
LOEC: 0.32 mg/L 21 d (Daphnia magna)	
Paraffinkohlenwasserstofen EC No.: 923-037-2	
LC_{50}: 3.6 mg/L (fish, Oncorhynchus mykiss)	
NOEC: 0.1 mg/L	
EC_{50}: 320 – 1,000 mg/L	

Kohlenwasserstoffen, C9-C10, n-/ iso-/ cyclo- Alkane, < 2% Aromaten	EC No.: 927-241-2
LC_{50}: 10 – 30 mg/L 4 d (fish)	
EC_{50}: >1,000 mg/L 2 d (crustaceans)	
EC_{50}: 22 – 46 mg/L	
NOEC: <1 mg/L (fish)	
LC_{50}: 10 – 30 mg/L (fish) OECD 203	
Isocyanic acid, polymethylenepolyphenylene ester	CAS No.: 9016-87-9 EC No.: 618-498-9
LC_{50}: >1,000 mg/L (fish, Danio Rerio)	
EC_{50}: >1,000 mg/L (crustaceans, Daphnia Magna)	
NOEC: >10 mg/L 21 d (Daphnia Magna)	
Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanateand o-(p-isocyanatobenzyl)phenyl isocyanate	EC No.: 905-806-4
LC_{50}: >1,000 mg/L 4 d (fish, Brachydanio rerio (Zebrabärbling)) OECD Prüfrichtlinie 203	
EC_{50}: >100 mg/L (Algae/water plant, Activated sludge (Mikroorganismen)) OECD- Prüfrichtlinie 209	
NOEC: ≥10 mg/L 21 d (Algae/water plant, Daphnia magna (Big water flea)) OECD- Prüfrichtlinie 211	
LC_{50}: >1,000 mg/L (fish, Brachydanio rerio, Danio rerio)	
NOEC: ≥10 mg/L 21 d (Daphnia magna)	

Aquatic toxicity:
Toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability

Hydrocarbons, C8-C9, isoalkanes	CAS No.: 246538-71-6 EC No.: 932-020-9
Biodegradation: Yes, slowly	
Paraffinkohlenwasserstofen	EC No.: 923-037-2
Biodegradation: Yes, rapidly	
Kohlenwasserstoffen, C9-C10, n-/ iso-/ cyclo- Alkane, < 2% Aromaten	EC No.: 927-241-2
Biodegradation: Yes, rapidly	
Isocyanic acid, polymethylenepolyphenylene ester	CAS No.: 9016-87-9 EC No.: 618-498-9
Biodegradation: Yes, slowly	
Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanateand o-(p-isocyanatobenzyl)phenyl isocyanate	EC No.: 905-806-4
Biodegradation: Yes, slowly	

12.3. Bioaccumulative potential

Kohlenwasserstoffen, C9-C10, n-/ iso-/ cyclo- Alkane, < 2% Aromaten	EC No.: 927-241-2
Log K_{OW}: > 4	
Bioconcentration factor (BCF): 2,500	
Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanateand o-(p-isocyanatobenzyl)phenyl isocyanate	EC No.: 905-806-4
Log K_{OW}: 4.51	

12.4. Mobility in soil
No data available

12.5. Results of PBT and vPvB assessment

Hydrocarbons, C8-C9, isoalkanes	CAS No.: 246538-71-6 EC No.: 932-020-9
Results of PBT and vPvB assessment: —	
Paraffinkohlenwasserstofen	EC No.: 923-037-2
Results of PBT and vPvB assessment: —	
Kohlenwasserstoffen, C9-C10, n-/ iso-/ cyclo- Alkane, < 2% Aromaten	EC No.: 927-241-2
Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.	
Isocyanic acid, polymethylenepolyphenylene ester	CAS No.: 9016-87-9 EC No.: 618-498-9
Results of PBT and vPvB assessment: —	

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Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanateand o-(p-isocyanatobenzyl)phenyl isocyanate EC No.: 905-806-4
Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

12.6. Endocrine disrupting properties
This information is not available.

12.7. Other adverse effects
No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods
The waste code has to be identified in agreement with the disposal company or the competent authority.
Waste code numbers of the European Waste Catalogue (EWC) apply as a recommendation.
Under certain circumstances other waste codes can also be assigned.

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV
Waste code product

08 01 11 *	Waste paint and varnish containing organic solvents or other dangerous substances

**: Evidence for disposal must be provided.*

Directive 2008/98/EC (Waste Framework Directive)

HP 3	Flammable
HP 5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
HP 7	carcinogenic
HP 13	Sensitising
HP 14	Ecotoxic

Remark:
Flammable vapors may form in the container.

Waste code packaging

15 01 04	metallic packaging
15 01 10 *	packaging containing residues of or contaminated by dangerous substances

**: Evidence for disposal must be provided.*

Directive 2008/98/EC (Waste Framework Directive)

HP 3	Flammable

Remark:
Flammable vapors may form in the container.

Waste treatment options
Appropriate disposal / Product:
Consult the appropriate local waste disposal expert about waste disposal.

Appropriate disposal / Package:
EAK/AVV 15 01 04:
Only empty containers with completely hardened/dried product residues may be handed over as part of the take-back system for packaging.
Labels and signs that have become invalid must be removed, pasted over or otherwise made unrecognizable.
Non-contaminated packages may be recycled.
EAK/AVV 15 01 10*:
packaging containing residues of or contaminated by dangerous substances.

13.2. Additional information
Delivery to an approved waste disposal company.

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN number or ID number			
UN 1263	UN 1263	UN 1263	UN 1263
14.2. UN proper shipping name			
PAINT	PAINT	PAINT	PAINT
14.3. Transport hazard class(es)			
 3	 3	 3	 3
14.4. Packing group			
III	III	III	III
14.5. Environmental hazards			
		 MARINE POLLUTANT	No
14.6. Special precautions for user			
Special Provisions: 163 | 367 | 650 **Limited quantity (LQ):** 5 L **Excepted Quantities (EQ):** E1 **Hazard identification number (Kemler No.):** 30 **Classification code:** F1 **Tunnel restriction code:** (D/E)	**Special Provisions:** 163 | 367 | 650 **Limited quantity (LQ):** 5 L **Excepted Quantities (EQ):** E1 **Classification code:** F1	**Special Provisions:** 163 | 223 | 367 | 955 **Limited quantity (LQ):** 5 L **Excepted Quantities (EQ):** E1 **EmS-No.:** F-E, S-E	**Special Provisions:** A3 | A72 | A192 **Limited quantity (LQ):** Y344 **Excepted Quantities (EQ):** E1

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

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

15.1.1. EU legislation

Authorisations:

Labelling according to Regulation (EC) No. 1272/2008 [CLP].
The mixture does not contain any "very worrying substances" (SVHC)> = 0.1% published by the European Chemical Agency (ECHA) in accordance with Article 57 of REACH: http://echa.europa.eu/fr/candidate-list- table.
The mixture does not meet the criteria applied to the PBT and vPvB mixtures, in accordance with Annex XIII of the REACH directive (EC) No. 1907/2006.Does not contain substances listed in REACH Annex XIV (Authorization List).
Ozone Regulation (1005/2009):
Does not contain substances listed on the Ozone Depletion List (Regulation EU 1005/2009 on substances that deplete the ozone layer).

Other regulations (EU):

Hazard categories:
• P5a Flammable Liquids, Category 1 or 2

- P5b Flammable liquids
- P5c Flammable liquids of Categories 2 or 3, not covered by P5a and P5b
- E2 Hazardous to the Aquatic Environment in Category Chronic 2

Directive 2004/42/EC on the limitation of emissions of volatile organic compounds:
Volatile organic compounds (VOC) content in percent by weight: 40 weight-%

15.1.2. National regulations

[DE] National regulations

Restrictions of occupation
Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.
Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Störfallverordnung (12. BImschV)

for substances contained in the product:
Hazard categories:
- P5a Flammable Liquids, Category 1 or 2
- P5b Flammable liquids
- P5c Flammable liquids of Categories 2 or 3, not covered by P5a and P5b
- E2 Hazardous to the Aquatic Environment in Category Chronic 2

Betriebssicherheitsverordnung (BetrSichV)
entzündlich

Water hazard class

WGK:
1 - slightly hazardous to water

15.2. Chemical Safety Assessment
For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

16.1. Indication of changes
No data available

16.2. Abbreviations and acronyms

AC	Article Category
ACGIH	American Conference of Governmental Industrial Hygienists
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	Carcinogenic, Mutagenic, toxic for Reproduction
DIN	German Institute for Standardization / German Industrial Standard
DNEL	derived no-effect level
EC_{50}	Effective Concentration 50%
EN	European Standard
ERC	Environmental Release Category
ES	Exposure scenario
EWC	European Waste Catalogue
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISO	International Standards Organisation
KG	body weight
LC_{50}	Lethal (fatal) Concentration 50%
LD_{50}	Lethal (fatal) Dose 50%
MAK	Maximum concentration in the workplace air (CH)
NFPA	National Fire Protection Association

NIOSH	National Institute for Occupational Safety & Health
NOEC	No Observed Effect Concentration
OECD	Organisation for Economic Cooperation and Development
OSHA	Occupational Safety & Health Administration
PBT	persistent and bioaccumulative and toxic
PC	Product category
PNEC	Predicted No Effect Concentration
PROC	Process Category
REACH	Registration, Evaluation and Authorization of Chemicals
RID	Dangerous goods regulations for transport by rail
SCL	Specific concentration limit
SU	use category
TRGS	Technische Regeln für Gefahrstoffe
UN	United Nations
VOC	Volatile organic compounds
ZNS	central nervous system

16.3. Key literature references and sources for data

Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP).
Guidance on the compilation of safety data sheets as amended (ECHA).
Guidance on labeling and packaging according to Regulation (EC) No 1272/2008 (CLP) as amended (ECHA).
Material Safety Data Sheets of the ingredients.
ECHA-homepage- Information on chemicals.
GESTIS- Substance database (Germany).
Rigoletto- substances hazardous to water (Germany).
EU occupational exposure limits Directive 91/322/EEC, 200/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164, (EU) 2019/1831 as amended.
National occupational exposure limit lists of the respective countries as amended.

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
flammable liquids *(Flam. Liq. 3)*	H226: Flammable liquid and vapour.	On basis of test data.
Skin corrosion/irritation *(Skin Irrit. 2)*	H315: Causes skin irritation.	Calculation method.
Respiratory or skin sensitisation *(Skin Sens. 1)*	H317: May cause an allergic skin reaction.	Calculation method.
STOT-single exposure *(STOT SE 3)*	H336: May cause drowsiness or dizziness.	Calculation method.
Carcinogenicity *(Carc. 2)*	H351: Suspected of causing cancer.	Calculation method.
Hazardous to the aquatic environment *(Aquatic Chronic 2)*	H411: Toxic to aquatic life with long lasting effects.	Calculation method.

16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

Hazard statements	
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
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.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.

Hazard statements	
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

16.6. Training advice

Instruction/training of employees required for handling hazardous materials.
Employee training required in handling hazardous materials.
As from 24 August 2023 adequate training is required before industrial or professional use.

16.7. Additional information

This information is based on our current knowledge and is only intended to describe the product in terms of health, safety and environmental conditions.
environmental conditions. It should therefore not be construed as a guarantee for specific properties of the product.