

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 17.05.2023

Version number 3 (replaces version 2)

Revision: 17.05.2023

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

1.1 Product identifier

Trade name: **Akepur 250 High Tack Componente B**

Article number: 11488_B, 11489_B

UFI: DWQ3-F0JY-T00E-UH57

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

No further relevant information available.

Application of the substance / the mixture

Polyurethane-sealant
Adhesives

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: AKEMI chemisch technische Spezialfabrik GmbH
Lechstrasse 28
D 90451 Nürnberg

Tel. +49(0)911-642960
Fax. +49(0)911-644456
e-mail info@akemi.de

Further information obtainable from:

Laboratory

1.4 Emergency telephone number:

Product Safety Department AKEMI chemisch technische Spezialfabrik GmbH
Tel. +49(0)911-64296-59
Reachable during the following office hours:
Monday – Thursday from 07:30 a.m. to 16:30 p.m.
Friday from 07:30 a.m. to 13:30 p.m.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

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.

STOT SE 3 H335 May cause respiratory irritation.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

Response: IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF ON SKIN: Wash with plenty of water.

Storage: Store locked up.
Store in a well-ventilated place. Keep container tightly closed.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms

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



GHS07 GHS08

Signal word

Danger

Hazard-determining components of labelling:

diphenylmethanediisocyanate, isomeres and homologues
Aromatisches Polyisocyanat-Prepolymer
diphenylmethane-4,4'-di-isocyanate

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· <u>Hazard statements</u>	diphenylmethane-2,4'-diisocyanate diphenylmethane-2,2'-diisocyanate 4-isocyanatosulphonyltoluene 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. H335 May cause respiratory irritation.
· <u>Precautionary statements</u>	H373 May cause damage to organs through prolonged or repeated exposure. P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P103 Read carefully and follow all instructions. P201 Obtain special instructions before use. P260 Do not breathe vapours. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. P284 In case of inadequate ventilation wear respiratory protection. P302+P352 IF ON SKIN: Wash with plenty of water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P312 Call a POISON CENTER/doctor if you feel unwell. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
· <u>Additional information:</u>	Contains isocyanates. May produce an allergic reaction. As from 24 August 2023 adequate training is required before industrial or professional use.
· 2.3 Other hazards	
· <u>Results of PBT and vPvB assessment</u>	
· <u>PBT:</u>	Not applicable.
· <u>vPvB:</u>	Not applicable.
· <u>Determination of endocrine-disrupting properties</u>	For information on endocrine disrupting properties see section 11.

SECTION 3: Composition/information on ingredients**3.2 Mixtures**· Description: Mixture of substances listed below with nonhazardous additions.· Dangerous components:

CAS: 9016-87-9 EC number: 618-498-9 Index number: 615-005-00-9 Reg.nr.: 01-2119457024-46	diphenylmethanediisocyanate, isomers 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; C ≥ 5 %	25-50%
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CAS: 67815-87-6	Aromatisches Polyisocyanat-Prepolymer Resp. Sens. 1, H334; STOT RE 2, H373 Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	12.5-25%
CAS: 101-68-8 EINECS: 202-966-0 Index number: 615-005-00-9 Reg.nr.: 01-2119457014-47	diphenylmethane-4,4'-di-isocyanate 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; C ≥ 5 %	1-5%
CAS: 5873-54-1 EINECS: 227-534-9 Index number: 615-005-00-9 Reg.nr.: 01-2119480143-45-xxxx	diphenylmethane-2,4'-diisocyanate 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; C ≥ 5 %	1-5%
CAS: 4083-64-1 EINECS: 223-810-8 Index number: 615-012-00-7 Reg.nr.: 01-2119980050-47	4-isocyanatosulphonyltoluene Resp. Sens. 1, H334 Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 EUH014, EUH204 Specific concentration limits: Eye Irrit. 2; H319: C ≥ 5 % STOT SE 3; H335: C ≥ 5 % Skin Irrit. 2; H315: C ≥ 5 %	<1%
CAS: 2536-05-2 EINECS: 219-799-4 Index number: 615-005-00-9 Reg.nr.: 01-2119927323-43-xxxx	diphenylmethane-2,2'-diisocyanate 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; C ≥ 5 %	<1%

· 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:

Immediately remove any clothing soiled by the product.

· After inhalation:

Supply fresh air; consult doctor in case of complaints.

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

· After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· After eye contact:

Rinse opened eye for several minutes under running water. Then consult a doctor.

· After swallowing:

If symptoms persist consult doctor.

Do not induce vomiting; call for medical help immediately.

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

Headache
Dizziness
Dizziness
Nausea
Allergic reactions

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

No further relevant information available.

SECTION 5: Firefighting measures

· **5.1 Extinguishing media**

· **Suitable extinguishing agents:**

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Use fire extinguishing methods suitable to surrounding conditions.

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

Water with full jet

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

In case of fire, the following can be released:
Carbon monoxide (CO)
Nitrogen oxides (NO_x)
Hydrogen cyanide (HCN)
Formation of toxic gases is possible during heating or in case of fire.

· **5.3 Advice for firefighters**

· **Protective equipment:**

Wear self-contained respiratory protective device.
Do not inhale explosion gases or combustion gases.
Wear fully protective suit.

· **Additional information**

Cool endangered receptacles with water spray.

SECTION 6: Accidental release measures

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

Ensure adequate ventilation
Wear protective equipment. Keep unprotected persons away.

· **6.2 Environmental precautions:**

Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.

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

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.

· **6.4 Reference to other sections**

See Section 7 for information on safe handling.
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**

Ensure good ventilation/exhaustion at the workplace.
Keep away from heat and direct sunlight.

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· Information about fire - and explosion protection:

Keep receptacles tightly sealed.

Fumes can combine with air to form an explosive mixture.

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

· Storage:

· Requirements to be met by storerooms and receptacles:

Store only in the original receptacle.
Prevent any seepage into the ground.

· Information about storage in one common storage facility:

Store away from foodstuffs.

· Further information about storage conditions:

Store receptacle in a well ventilated area.
Protect from heat and direct sunlight.
Protect from frost.

· Storage class:

10

· **7.3 Specific end use(s)**

No further relevant information available.

SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

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

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· DNELs

9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

Inhalative	DNEL (Kurzzeit-akut)	0.1 mg/m ³ Air (ARB) 0.05 mg/m ³ Air (BEV)
	DNEL (Langzeit-wiederholt)	0.05 mg/m ³ Air (ARB) 0.025 mg/m ³ Air (BEV)

101-68-8 diphenylmethane-4,4'-di-isocyanate

Oral	DNEL (Kurzzeit-akut)	20 mg/kg bw/day (BEV)
Dermal	DNEL (Kurzzeit-akut)	28.7-50 mg/kg bw/day (ARB) 17.2-25 mg/kg bw/day (BEV)
	DNEL (Langzeit-wiederholt)	0.05 mg/m ³ Air (ARB) 0.025 mg/m ³ Air (BEV)

5873-54-1 diphenylmethane-2,4'-diisocyanate

Dermal	DNEL (Kurzzeit-akut)	28.7-50 mg/kg bw/day (ARB)
Inhalative	DNEL (Kurzzeit-akut)	0.1 mg/m ³ Air (ARB) 0.05 mg/m ³ Air (BEV)
	DNEL (Langzeit-wiederholt)	0.05 mg/m ³ Air (ARB) 0.025 mg/m ³ Air (BEV)

2536-05-2 diphenylmethane-2,2'-diisocyanate

Dermal	DNEL (Kurzzeit-akut)	28.7-50 mg/kg bw/day (ARB)
Inhalative	DNEL (Kurzzeit-akut)	0.1 mg/m ³ Air (ARB) 0.05 mg/m ³ Air (BEV)
	DNEL (Langzeit-wiederholt)	0.05 mg/m ³ Air (ARB)

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	0.025 mg/m ³ Air (BEV)
· PNECs	
9016-87-9 diphenylmethanediisocyanate, isomeres and homologues	
PNEC (wässrig)	1 mg/l (KA) 0.1 mg/l (MW) 1 mg/l (SW) 10 mg/l (WAS)
PNEC (fest)	1 mg/kg Trockengew (BO)
101-68-8 diphenylmethane-4,4'-di-isocyanate	
PNEC (wässrig)	>1 mg/l (KA) 0.00037 mg/l (MW) 0.0037 mg/l (SW) 10 mg/l (WAS)
PNEC (fest)	2.33 mg/kg Trockengew (BO) 1.17 mg/kg Trockengew (MWS) 11.7 mg/kg Trockengew (SWS)
5873-54-1 diphenylmethane-2,4'-diisocyanate	
PNEC (wässrig)	>1 mg/l (KA) >0.1 mg/l (MW) >1 mg/l (SW) 10 mg/l (WAS)
PNEC (fest)	>1 mg/kg Trockengew (BO)
2536-05-2 diphenylmethane-2,2'-diisocyanate	
PNEC (wässrig)	1 mg/l (KA) 0.1 mg/l (MW) 1 mg/l (SW)
PNEC (fest)	1 mg/kg Trockengew (BO)

· Additional information: The lists valid during the making were used as basis.

· **8.2 Exposure controls**

· Appropriate engineering controls No further data; see section 7.

· Individual protection measures, such as personal protective equipment

· General protective and hygienic measures:

Do not eat, drink, smoke or sniff while working.
Use skin protection cream for skin protection.
Clean skin thoroughly immediately after handling the product.
Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.
Do not inhale gases / fumes / aerosols.

· Respiratory protection:

Short term filter device:

Filter AX

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· Hand protection

Preventive skin protection by use of skin-protecting agents is recommended.

After use of gloves apply skin-cleaning agents and skin cosmetics.

The protection gloves to be used have to comply with the specifications of the directive 89/686/EC and the directive derived decree EN374, respectively, e.g. the above listed protection glove type. The mentioned permeation times' data were generated and verified with material samples of the recommended protection glove type in the scope of laboratory analyses of the company KCL GmbH in compliance with EN374.

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This recommendation refers exclusively to the material safety data sheet referenced product delivered by Akemi and the indicated field of application. In case of product dilution or in case of mixture with different substances or chemicals, and in condition of EN374 deviation the producer of CE-approved protection gloves must be contacted for detailed information (e.g., KCL GmbH, Germany, 36124 Eichenzell, internet: <http://www.kcl.de>).

**Protective gloves**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

Fluorocarbon rubber (Viton)

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove materialValue for the permeation: Level ≤ 6 , 480 min

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

· For the permanent contact gloves made of the following materials are suitable:

Fluorocarbon rubber (Viton)

Vitoject (KCL, Art_No. 890)

· As protection from splashes gloves made of the following materials are suitable:

Nitrile rubber, NBR

Camatril (KCL, 730, 731, 732, 733)

Butyl rubber, BR

Butoject (KCL, Art_No. 897, 898)

· Not suitable are gloves made of the following materials:

Leather gloves

Strong material gloves

· Eye/face protection**Tightly sealed goggles**· Body protection:

Impervious protective clothing

SECTION 9: Physical and chemical properties· **9.1 Information on basic physical and chemical properties**· General Information· Colour:

Beige

· Odour:

Nearly odourless

· Melting point/freezing point:

Undetermined.

· Boiling point or initial boiling point and boiling range

190 °C (9016-87-9 diphenylmethanediisocyanate, isomeres and homologues)

· Lower and upper explosion limit· Lower:

0.4 Vol %

· Upper:

7.6 Vol %

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· <u>Flash point:</u>	>110 °C
· <u>Auto-ignition temperature:</u>	400 °C
· <u>pH</u>	Not determined.
	Not applicable
· <u>Viscosity:</u>	
· <u>Kinematic viscosity</u>	Not determined.
· <u>Dynamic at 20 °C:</u>	44,600 mPas
· <u>Solubility</u>	
· <u>water:</u>	Insoluble.
· <u>Vapour pressure at 25 °C:</u>	0 hPa
· <u>Density and/or relative density</u>	
· <u>Density at 20 °C:</u>	1.49 g/cm ³

· 9.2 Other information

· <u>Appearance:</u>	
· <u>Form:</u>	Pasty
· <u>Important information on protection of health and environment, and on safety.</u>	
· <u>Ignition temperature:</u>	Product is not selfigniting.
· <u>Explosive properties:</u>	Product does not present an explosion hazard.
· <u>Solvent content:</u>	
· <u>Solids content:</u>	74.9 %

· Information with regard to physical hazard classes

· <u>Explosives</u>	Void
· <u>Flammable gases</u>	Void
· <u>Aerosols</u>	Void
· <u>Oxidising gases</u>	Void
· <u>Gases under pressure</u>	Void
· <u>Flammable liquids</u>	Void
· <u>Flammable solids</u>	Void
· <u>Self-reactive substances and mixtures</u>	Void
· <u>Pyrophoric liquids</u>	Void
· <u>Pyrophoric solids</u>	Void
· <u>Self-heating substances and mixtures</u>	Void
· <u>Substances and mixtures, which emit flammable gases in contact with water</u>	Void
· <u>Oxidising liquids</u>	Void
· <u>Oxidising solids</u>	Void
· <u>Organic peroxides</u>	Void
· <u>Corrosive to metals</u>	Void
· <u>Desensitised explosives</u>	Void

SECTION 10: Stability and reactivity

· 10.1 Reactivity	No further relevant information available.
· 10.2 Chemical stability	
· <u>Thermal decomposition / conditions to be avoided:</u>	No decomposition if used according to specifications.
· 10.3 Possibility of hazardous reactions	Reacts with alcohols, amines, aqueous acids and alkalis. Reacts with water. Bei geschlossenen Behältern Berstgefahr durch CO ₂ -Druckaufbau.
· 10.4 Conditions to avoid	No further relevant information available.

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- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**
 - Hydrogen chloride (HCl)
 - Nitrogen oxides
 - Sulphur dioxide

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:****ATE (Acute Toxicity Estimates)**

Inhalative	LC50/4 h	0.79 mg/l
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9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

Oral	LD50	>2,000 mg/kg (rat)	
	NOAEL-Werte	12 mg/kg (rat) (OECD414)	
Dermal	LD50	>9,400 mg/kg (rabbit)	
	Inhalative	LC50/4 h	0.31 mg/l (rat) (OECD 403)
		LC50	490 mg/m ³ (rat)
		NOAEL	0.2 mg/m ³ (rat)

67815-87-6 Aromatisches Polyisocyanat-Prepolymer

Dermal	LD50	>9,400 mg/kg (rabbit)
Inhalative	LC50/4 h	11 mg/l (ATE)

101-68-8 diphenylmethane-4,4'-di-isocyanate

Oral	LD50	>2,000 mg/kg (rat)		
	Dermal	LD50	>9,400 mg/kg (rabbit) (OECD 402)	
		Inhalative	LC50	2.24 mg/l (rat)
			LC50/4 h	0.368 mg/l (rat) (OECD 403)
			LC50/1h	>2.24 mg/l (rat)

5873-54-1 diphenylmethane-2,4'-diisocyanate

Oral	LD50	>2,000 mg/kg (rat)	
Dermal	LD50	>9,400 mg/kg (rabbit)	
	Inhalative	LC50/4 h	0.387 mg/l (rat)
		NOAEL	0.2 mg/m ³ (rat)

4083-64-1 4-isocyanatosulphonyltoluene

Oral	LD50	2,600 mg/kg (rat)
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2536-05-2 diphenylmethane-2,2'-diisocyanate

Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD50	>9,400 mg/kg (rabbit) (OECD402)
	Inhalative	LC50/4 h

- **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** Based on available data, the classification criteria are not met.
- **STOT-single exposure** May cause respiratory irritation.
- **STOT-repeated exposure** May cause damage to organs through prolonged or repeated exposure.

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· Aspiration hazard Based on available data, the classification criteria are not met.· **11.2 Information on other hazards**· Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information· **12.1 Toxicity**· Aquatic toxicity:**9016-87-9 diphenylmethanediisocyanate, isomers and homologues**

EC50/24h	>1,000 mg/l (daphnia magna) (OECD202)
EC50	>100 mg/l (bacteria) (OECD 209)
ErC50/72h	>1,640 mg/l (Scenedesmus subspicatus) (OECD201)
NOEC/21d	>10 mg/l (daphnia magna) (OECD202)
LC50/96h	>1,000 mg/l (Danio rerio.) (OECD 203)

67815-87-6 Aromatisches Polyisocyanat-Prepolymer

EC50	>100 mg/l (BES)
NOEC/21d	>10 mg/l (daphnia magna)

101-68-8 diphenylmethane-4,4'-di-isocyanate

EC50/24h	>1,000 mg/l (daphnia magna)
EC50	>100 mg/l (BES)
ErC50/72h	>1,640 mg/l (Scenedesmus subspicatus) (OECD 201)
NOEC/21d	>10 mg/l (daphnia magna)
LC50/96h	>1,000 mg/l (Danio rerio.) (OECD 203)

5873-54-1 diphenylmethane-2,4'-diisocyanate

EC50/24h	>1,000 mg/l (daphnia magna)
EC50	>100 mg/l (bacteria) (OECD 209)
ErC50/72h	>1,640 mg/l (Desmodesmus subspicatus) (OECD 201)
NOEC/21d	>10 mg/l (daphnia magna) (OECD202)
LC50/96h	>1,000 mg/l (Danio rerio.)

4083-64-1 4-isocyanatosulphonyltoluene

EC50/72h	23 mg/l (green alge)
	150 mg/l (daphnia magna)
LC50/96h	435 mg/l (piscis)

2536-05-2 diphenylmethane-2,2'-diisocyanate

EC50/24h	>1,000 mg/l (daphnia magna) (OECD202)
EC50	>100 mg/l (bacteria) (OECD209)
NOEC/21d	>10 mg/l (daphnia magna) (OECD 202)
EC50/72h	>1,640 mg/l (Scenedesmus subspicatus) (OECD201)
LC50/96h	>1,000 mg/l (Danio rerio.) (OECD 203)

· **12.2 Persistence and****degradability**

No further relevant information available.

· **12.3 Bioaccumulative potential**

No further relevant information available.

· **12.4 Mobility in soil**

No further relevant information available.

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

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· **12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

· **12.7 Other adverse effects**

· Additional ecological information:

· General notes:

Do not allow product to reach ground water, water course or sewage system.
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.
Must be specially treated adhering to official regulations.

· European waste catalogue

08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 04 00	wastes from MFSU of adhesives and sealants (including waterproofing products)
08 04 09*	waste adhesives and sealants containing organic solvents or other hazardous substances

· Uncleaned packaging:

· Recommendation:

Disposal must be made according to official regulations.
Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

SECTION 14: Transport information

· **14.1 UN number or ID number**

· ADR, IMDG, IATA

Void

· **14.2 UN proper shipping name**

· ADR, IMDG, IATA

Void

· **14.3 Transport hazard class(es)**

· ADR, ADN, IMDG, IATA

· Class

Void

· **14.4 Packing group**

· ADR, IMDG, IATA

Void

· **14.5 Environmental hazards:**

· Marine pollutant:

No

· **14.6 Special precautions for user**

Not applicable.

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

Not applicable.

· Transport/Additional information:

Not dangerous according to the above specifications.

· UN "Model Regulation":

Void

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SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

· Directive 2012/18/EU

· Named dangerous substances -
ANNEX I

None of the ingredients is listed.

· REGULATION (EC) No 1907/2006
ANNEX XVII

Conditions of restriction: 3, 56a, 56b, 56c, 74

· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

· REGULATION (EU) 2019/1148

· Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

· Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

· National regulations:

· Information about limitation of use:

Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

· Waterhazard class:

Water hazard class 1 (Self-assessment): slightly hazardous for water.

· Substances of very high concern (SVHC) according to REACH, Article 57

None of the ingredients is listed.

· VOC EU

0.0 g/l

**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.

This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

· Department issuing SDS:

Laboratory

· Date of previous version:

17.05.2023

· Version number of previous
version:

2

· Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

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GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
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
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

EU