

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 21.08.2025

Version number 11 (replaces version 10)

Revision: 21.08.2025

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

1.1 Product identifier

Trade name: **PR Speed 1 Min Part A**

Article number: 87307_A

UFI: Q051-70YD-N00P-0PN5

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

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.

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
MDI-based Polyisocyanat-prepolymer
diphenylmethane-4,4'-diisocyanate
diphenylmethane-2,4'-diisocyanate
diphenylmethane-2,2'-diisocyanate
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.

Hazard statements

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· <u>Precautionary statements</u>	H317	May cause an allergic skin reaction.
	H351	Suspected of causing cancer.
	H335	May cause respiratory irritation.
	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.
	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.
· <u>Additional information:</u>	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>2.3 Other hazards</u>	Contains isocyanates. May produce an allergic reaction.	
	As from 24 August 2023 adequate training is required before industrial or professional use.	
· <u>Results of PBT and vPvB assessment</u>	For persons already sensitised to diisocyanates, handling this product may cause allergic reactions. Avoid contact, including skin contact, with the product in case of asthma, eczematous skin diseases or skin problems. Do not use the product with insufficient ventilation or wear protective mask with appropriate gas filter (type A1 according to EN14387).	
	· PBT:	Not applicable.
	· vPvB:	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: consisting of the following components.

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· <u>Dangerous components:</u>		
CAS: 9016-87-9 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%
	MDI-based Polyisocyanat-prepolymer 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	25-50%
CAS: 101-68-8 EINECS: 202-966-0 Index number: 615-005-00-9 Reg.nr.: 01-2119457014-47	diphenylmethane-4,4'-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 %	12.5-25%
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 %	<10%
CAS: 2530-83-8 EINECS: 219-784-2 Reg.nr.: 01-2119513212-58	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane Eye Dam. 1, H318 Aquatic Chronic 3, H412	1-5%
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:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation:

Supply fresh air and to be sure call for a doctor.

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

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- 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. If symptoms persist, consult a doctor.
- After swallowing: Do not induce vomiting; call for medical help immediately.
Rinse out mouth and then drink plenty of water.
- **4.2 Most important symptoms and effects, both acute and delayed** Asthma attacks
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: Use fire extinguishing methods suitable to surrounding conditions.
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- For safety reasons unsuitable extinguishing agents: Water with full jet
- **5.2 Special hazards arising from the substance or mixture** Formation of toxic gases is possible during heating or in case of fire.
In case of fire, the following can be released:
Hydrogen cyanide (HCN)
Nitrogen oxides (NO_x)
- **5.3 Advice for firefighters**
- Protective equipment: Wear self-contained respiratory protective device.
Do not inhale explosion gases or combustion gases.
- Additional information Collect contaminated fire fighting water separately. It must not enter the sewage system.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Particular danger of slipping on leaked/spilled product.
- **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.

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SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.
Use only in well ventilated areas.

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

Keep ignition sources away - Do not smoke.
Keep respiratory protective device available.

· **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 oxidising agents.

· **Further information about storage conditions:**

Protect from frost.
Keep container tightly sealed.
Store receptacle in a well ventilated area.
Store in dry conditions.
Protect from heat and direct sunlight.

· **Storage class:**

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· **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, isomers 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)

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		0.025 mg/m ³ Air (BEV)
2530-83-8 [3-(2,3-epoxypropoxy)propyl]trimethoxysilane		
Oral	DNEL (Langzeit-wiederholt)	12.5 mg/kg bw/day (BEV)
Dermal	DNEL (Kurzzeit-akut)	21 mg/kg bw/day (ARB)
		12.5 mg/kg bw/day (BEV)
	DNEL (Langzeit-wiederholt)	21 mg/kg bw/day (ARB)
		5 mg/kg bw/day (BEV)
Inhalative	DNEL (Kurzzeit-akut)	147 mg/m ³ Air (ARB)
		43.5 mg/m ³ Air (BEV)
	DNEL (Langzeit-wiederholt)	147 mg/m ³ Air (ARB)
		43.5 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)
		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)

2530-83-8 [3-(2,3-epoxypropoxy)propyl]trimethoxysilane

PNEC (wässrig)	8.2 mg/l (KA)
	0.045 mg/l (MW)
	0.45 mg/l (SW)
	0.45 mg/l (WAS)
PNEC (fest)	0.14 mg/kg Trockengew (BO)
	0.36 mg/kg Trockengew (MWS)

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	3.6 mg/kg Trockengew (SWS)
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:

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes and skin.

- Respiratory protection: 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.
Short term filter device:
Filter A/P2

- Hand protection



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 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 material 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:

Butyl rubber, BR
Nitrile rubber, NBR
Chloroprene rubber, CR

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

Butoject (KCL, Art_No. 897, 898)
Butyl rubber, BR
Nitrile rubber, NBR
Vitoject (KCL, Art_No. 890)

- Not suitable are gloves made of the following materials:

Leather gloves
Strong material gloves

- Eye/face protection



Tightly sealed goggles

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· **Body protection:** Light weight protective clothing

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· <u>General Information</u>	
· <u>Colour:</u>	Brown
· <u>Odour:</u>	Specific type
· <u>Odour threshold:</u>	Not determined.
· <u>Melting point/freezing point:</u>	Undetermined.
· <u>Boiling point or initial boiling point and boiling range</u>	>300 °C
· <u>Flammability</u>	Not applicable.
· <u>Lower and upper explosion limit</u>	
· <u>Lower:</u>	0.4 Vol %
· <u>Upper:</u>	0.0 Vol %
· <u>Flash point:</u>	>200 °C
· <u>Auto-ignition temperature:</u>	>500 °C
· <u>Decomposition temperature:</u>	Not determined.
· <u>pH</u>	Not determined.
· <u>Viscosity:</u>	
· <u>Kinematic viscosity</u>	Not determined.
· <u>Dynamic at 20 °C:</u>	500-1,000 mPas
· <u>Solubility</u>	
· <u>water:</u>	Hydrolised.
· <u>Partition coefficient n-octanol/water (log value)</u>	Not determined.
· <u>Vapour pressure at 25 °C:</u>	>0 hPa
· <u>Density and/or relative density</u>	
· <u>Density at 20 °C:</u>	1.17 g/cm ³
· <u>Relative density</u>	Not determined.
· <u>Vapour density</u>	Not determined.

· 9.2 Other information

· <u>Appearance:</u>	
· <u>Form:</u>	Fluid
· <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>Change in condition</u>	
· <u>Evaporation rate</u>	Not determined.

· 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

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· Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void
· Desensitised explosives	Void

SECTION 10: Stability and reactivity

· 10.1 Reactivity	No further relevant information available.
· 10.2 Chemical stability	
· Thermal decomposition / conditions to be avoided:	No decomposition if used according to specifications.
· 10.3 Possibility of hazardous reactions	Reacts with alcohols, amines, aqueous acids and alkalis.
· 10.4 Conditions to avoid	Heat, flames and other sources of ignition moisture
· 10.5 Incompatible materials:	strong oxidizing agents Water
· 10.6 Hazardous decomposition products:	Nitrogen oxides (NOx) Hydrogen cyanide (prussic acid) Carbon 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	0.449 mg/l
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9016-87-9 diphenylmethanediisocyanate, isomers 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)

MDI-based Polyisocyanat-prepolymer

Inhalative	LC50/4 h	1.5 mg/l (ATE)
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101-68-8 diphenylmethane-4,4'-di-isocyanate

Oral	LD50	>2,000 mg/kg (rat) (OECD 401)
Dermal	LD50	>9,400 mg/kg (rabbit) (OECD 402)
Inhalative	LC50	2.24 mg/l (rat)
	LC50/4 h	0.31 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)

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	NOAEL	0.2 mg/m ³ (rat)
2530-83-8 [3-(2,3-epoxypropoxy)propyl]trimethoxysilane		
Oral	LD50	8,025 mg/kg (rat) (OECD 401)
	NOAEL-Werte	≥5 mg/kg (mouse) 200 mg/kg (rabbit) (OECD 414) 500 mg/kg (rat) (OECD 415)
Dermal	LD50	4,250 mg/kg (rabbit) (OECD 402)
Inhalative	LC50/4 h	>5.3 mg/l (rat) (OECD 403)
	NOAEC	0.225 mg/l (rat) (OECD 412)
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	0.527 mg/l (rat) (OECD 403)

- Primary irritant effect:
- 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.
- 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)

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

EC50/24h	>1,000 mg/l (daphnia magna) (OECD 202)
EC50	>100 mg/l (BES) (OECD 209)
ErC50/72h	>1,640 mg/l (Scenedesmus subspicatus) (OECD 201)
NOEC/21d	>10 mg/l (daphnia magna) (OECD 202)
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)

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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.)

2530-83-8 [3-(2,3-epoxypropoxy)propyl]trimethoxysilane

EC50/96h	350 mg/l (Pseudokirchneriella subcapitata) (OECD 201)
	>100 mg/l (salmon)
EC50	119 mg/l (algae)
IC50	255 mg/l (Scenedesmus subspicatus)
EC50/48h	473 mg/l (daphnia magna)
EC10/5h	1,500 mg/l (pseudomonas putida)
ErC50/72h	350 mg/l (Selenastrum capricornutum)
ECO/96h	44 mg/l (Cyprinus carpio)
NOEC	>100 mg/kg (Klärschlamm: Atmungs-/Vermehrungshemmung) (OECD 209)
NOEC/21d	≥100 mg/l (daphnia magna) (OECD 211)
EC50/48h	324-710 mg/l (daphnia magna) (OECD 202)
EC50/72h	255 mg/l (Scenedesmus subspicatus)
LC50/96h	55 mg/l (Cyprinus carpio) (OECD 203)
	276 mg/l (lem)
	237 mg/l (Oncorhynchus mykiss)

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.

· **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:**

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.

· **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 05 00	wastes not otherwise specified in 08

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08 05 01* waste isocyanates

· Uncleaned packaging:· Recommendation:

Disposal must be made according to official regulations.

SECTION 14: Transport information· **14.1 UN number or ID number**

· ADR, ADN, IMDG, IATA

Void

· **14.2 UN proper shipping name**

· ADR, ADN, 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

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.

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- National regulations:
- Information about limitation of use: Employment restrictions concerning juveniles 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 Sheets 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: 15.11.2023

· Version number of previous version: 10

· Abbreviations and acronyms:

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
 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
 ATE: Acute toxicity estimate values
 Acute Tox. 4: Acute toxicity – Category 4
 Skin Irrit. 2: Skin corrosion/irritation – Category 2
 Eye Dam. 1: Serious eye damage/eye irritation – Category 1
 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
 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

EU