

Safety Data Sheet
according to 1907/2006/EC, Article 31

Printing date 15.05.2023

Version number 1

Revision: 15.05.2023

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**Trade name **ONEBOND PU40**

Safety data sheet no.: 2199GL05_2

UFI: 5A20-50H1-000K-1AA5

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

The product is intended for professional or consumer use.

Life cycle stages

C Consumer use

PW Widespread use by professional workers

Sector of Use SU19 Building and construction work**Product category** PC1 Adhesives, sealants**Process category**

PROC3 Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition

PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

Environmental release category

ERC8c Widespread use leading to inclusion into/onto article (indoor)

ERC8f Widespread use leading to inclusion into/onto article (outdoor)

Application of the substance / the mixture Construction chemicals**1.3 Details of the supplier of the safety data sheet****Manufacturer/Supplier:**

Saint-Gobain Surface Solutions

251 rue de l'Ambassadeur

78700 Conflans, France

+33 1 34 90 41 40

Onebond.support@Saint-Gobain.com

1.4 Emergency telephone number: +33 1 34 90 41 40**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008



GHS08 health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Carc. 2 H351 Suspected of causing cancer. Route of exposure: Inhalation.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

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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

GHS08

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

4,4'-methylenediphenyl diisocyanate

4-isocyanatosulphonyltoluene

Hazard statements

H315 Causes skin 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. Route of exposure: Inhalation.

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves / eye protection.

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

P308+P313 IF exposed or concerned: Get medical advice/attention.

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

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional information:

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.

EUH204 Contains isocyanates. May produce an allergic reaction.

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

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

2.3 Other hazards**Results of PBT and vPvB assessment****PBT:** Does not contain PBT substances.**vPvB:** Does not contain vPvB substances.**SECTION 3: Composition/information on ingredients****3.2 Mixtures****Description:** Mixture consisting of the following components.

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Dangerous components:		
CAS: 1330-20-7 EINECS: 215-535-7 Index number: 601-022-00-9 Reg.nr.: 01-2119488216-32-xxxx	xylene ⚠ Flam. Liq. 3, H226; ⚠ Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	≥5-<10%
CAS: 13463-67-7 EINECS: 236-675-5 Index number: 022-006-00-2 Reg.nr.: 01-2119489379-17-xxxx	titanium dioxide ⚠ Carc. 2, H351	2-10%
CAS: 100-41-4 EINECS: 202-849-4 Index number: 601-023-00-4 Reg.nr.: 01-2119489370-35-xxxx	ethylbenzene ⚠ Flam. Liq. 2, H225; ⚠ STOT RE 2, H373; Asp. Tox. 1, H304; ⚠ Acute Tox. 4, H332	1-2%
CAS: 101-68-8 EINECS: 202-966-0 Index number: 615-005-00-9 Reg.nr.: 01-2119457014-47-xxxx	4,4'-methylenediphenyl 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: Skin Irrit. 2; H315: C ≥ 5 % Eye Irrit. 2; H319: C ≥ 5 % Resp. Sens. 1; H334: C ≥ 0.1 % STOT SE 3; H335: C ≥ 5 %	≥1-<2%
CAS: 4083-64-1 EINECS: 223-810-8 Index number: 615-012-00-7 Reg.nr.: 01-2119980050-47-xxxx	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-<2%

SVHC Void

Additional information

(CAS:13463-67-7) Titanium dioxide

Note 10 of CLP classification: The classification as a carcinogen by inhalation applies only to mixtures in powder form containing 1 % or more of titanium dioxide which is in the form of or incorporated in particles with aerodynamic diameter ≤ 10 µm.

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.

Remove the victim immediately from the danger area. If the patient is unwell consult a doctor and present this data sheet.

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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.

After skin contact

Remove contaminated clothing. Wash skin vigorously with water and soap or a suitable skin cleaner. NEVER use solvents or thinners.

After eye contact

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

After swallowing Do not induce vomiting; call for medical help immediately.**4.2 Most important symptoms and effects, both acute and delayed** 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.**For safety reasons unsuitable extinguishing agents**

Water with full jet

In the presence of electrical voltage, do not use water or foam as extinguishing media.

5.2 Special hazards arising from the substance or mixtureCarbon oxides (CO_x)Nitrogen oxides (NO_x)**5.3 Advice for firefighters****Protective equipment:**

Wear fully protective suit.

Wear self-contained respiratory protective device.

Additional information

The following fire precautions are recommended: Ensure adequate fire-fighting equipment is to hand and that there are sufficient fire exists, which are kept clear at all times. If there is an outbreak of fire, the Fire Brigade should be called immediately and advised that EPS is involved. The area should be evacuated by all personnel, except those fighting the fire.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Avoid inhalation of vapors.

Avoid contact with skin and eyes.

Contaminated protective equipment should be cleaned (by washing).

For emergency responders Wear protective equipment. Keep unprotected persons away.**6.2 Environmental precautions:**

The product must not get into watercourses or into the soil.

Suppress gases/fumes/haze with water spray.

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6.3 Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of 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
Keep receptacles tightly sealed.
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Prevent formation of aerosols.
Information about fire - and explosion protection: 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 unopened original receptacles.
Store in a cool location.

Information about storage in one common storage facility:
Store away from foodstuffs.
Store away from water.

Further information about storage conditions:
Protect from heat and direct sunlight.
Protect from humidity and water.

Recommended storage temperature: 5-35°C

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:

DNELs		
CAS: 1330-20-7 xylene		
Oral	Derived No Effect Level	5 mg/kgxday (consumer systemic long term value)
Dermal	Derived No Effect Level	212 mg/kgxday (worker systemic long term value)
		125 mg/kgxday (consumer systemic long term value)
Inhalative	Derived No Effect Level	221 mg/m ³ (worker systemic long term value)
		65.3 mg/m ³ (consumer systemic long term value)
CAS: 13463-67-7 titanium dioxide		
Inhalative	Derived No Effect Level	0.17 mg/m ³ (worker local long term value)
		0.028 mg/m ³ (consumer local long term value)

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CAS: 100-41-4 ethylbenzene

Oral	Derived No Effect Level	1.6 mg/kgxday (consumer systemic long term value)
Dermal	Derived No Effect Level	180 mg/kgxday (worker systemic long term value)
Inhalative	Derived No Effect Level	77 mg/m ³ (worker systemic long term value) 15 mg/m ³ (consumer systemic long term value) 293 mg/m ³ (worker local short term value)

CAS: 101-68-8 4,4'-methylenediphenyl diisocyanate

Inhalative	Derived No Effect Level	0.1 mg/m ³ (worker local short term value) 0.05 mg/m ³ (worker local long term value) 0.025 mg/m ³ (consumer local long term value) 0.05 mg/m ³ (consumer local short term value)
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CAS: 4083-64-1 4-isocyanatosulphonyltoluene

Oral	Derived No Effect Level	0.46 mg/kgxday (consumer systemic long term value)
Dermal	Derived No Effect Level	0.46 mg/kgxday 0.92 mg/kgxday (worker systemic long term value) 0.46 mg/kgxday (consumer systemic long term value)
Inhalative	Derived No Effect Level	3.24 mg/m ³ (worker systemic long term value) 0.8 mg/m ³ (consumer systemic long term value)

Ingredients with biological limit values:
CAS: 1330-20-7 xylene

BGW (Germany)	1.5 mg/l Untersuchungsmaterial: Vollblut Probennahmezeitpunkt: Expositionsende bzw. Schichtende Parameter: Xylol
VLB (Spain)	2000 mg/L Untersuchungsmaterial: Urin Probennahmezeitpunkt: Expositionsende bzw. Schichtende Parameter: Methylhippur-(Tolur-)Säure (alle Isomere)
IBE (Italy)	1 g/g creatinina Campioni: urine Momento del prelievo: a fine turno Indicatore biologico: acido metilippurico
IBE (Portugal)	1.5 g/g creatinina Amostra: urina Momento da amostragem: Fim do turno Indicador biológico: Ácidos (o, m, p)-metilhipúricos
BNO (Finland)	5.0 mmol/l Altiste: virtsan Näytteenottoajankohta: Työvuoron päätyttyä Parametri: metyylihippuurihappo

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CAS: 100-41-4 ethylbenzene

BGW (Germany)	250 mg/g Kreatinin Untersuchungsmaterial: Urin Probennahmezeitpunkt: Expositionsende bzw. Schichtende Parameter: Mandelsäure plus Phenoxglyxylsäure
VLB (Spain)	700 mg/g creatinina Muestra: orina Momento de Muestero: Final de la semana laboral Indicador Biológico: Suma del ácido mandélico y el ácido fenilgloxílico
IBE (Italy)	0.7 g/g creatinina Campioni: urine Momento del prelievo: f.t.f.s.l Indicatore biologico: acido mandelico + acido fenilgloxilico
	- Campioni: aria di fine espirazione Momento del prelievo: non critico Indicatore biologico: etilbenzene
IBE (Portugal)	0.7 g/g creatinina Amostra: urina Momento da amostragem: Fim do turno Indicador biológico: Soma do ácido mandélico e do ácido fenilgloxílico
BNO (Finland)	5.2 mmol/l Altiste: virtsan Näytteenottoajankohta: Työvuoron päätyttyä työviikon tai altistumisjakson loputtua Parametri: mantelihappo

CAS: 101-68-8 4,4'-methylenediphenyl diisocyanate

BGW (Germany)	10 µg/g Kreatinin Untersuchungsmaterial: Urin Probennahmezeitpunkt: Expositionsende bzw. Schichtende Parameter: 4,4'-Diaminodiphenylmethan
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CAS No. / Designation of material / % / Type / Value / Unit
CAS: 1330-20-7 xylene

IOELV (European Union)	Short-term value: 442 mg/m ³ , 100 ppm Long-term value: 221 mg/m ³ , 50 ppm Skin
AGW (Germany)	Long-term value: 220 mg/m ³ , 50 ppm 2(II);DFG, EU, H
GV (Denmark)	Short-term value: 442 mg/m ³ , 100 ppm Long-term value: 109 mg/m ³ , 25 ppm EH
LEP (Spain)	Short-term value: 442 mg/m ³ , 100 ppm Long-term value: 221 mg/m ³ , 50 ppm vía dérmica, VLB, VLI
TWA (Italy)	Short-term value: 651 mg/m ³ , 150 ppm Long-term value: 434 mg/m ³ , 100 ppm A4, IBE

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VL (Italy)	Short-term value: 442 mg/m ³ , 100 ppm Long-term value: 221 mg/m ³ , 50 ppm Cute
VLE (Portugal)	Short-term value: 150 ppm Long-term value: 100 ppm A4; IBE; Irritação ocular, do TRS; afeção do SNC
OEL (Sweden)	Short-term value: 442 mg/m ³ , 100 ppm Long-term value: 221 mg/m ³ , 50 ppm H
HTP (Finland)	Short-term value: 440 mg/m ³ , 100 ppm Long-term value: 220 mg/m ³ , 50 ppm iho

CAS: 13463-67-7 titanium dioxide

AGW (Germany)	Long-term value: 1.25* 10** mg/m ³ 2(II);*alveolengängig**einatembar; AGS, DFG, Y
GV (Denmark)	Short-term value: 12 mg/m ³ Long-term value: 6 mg/m ³ K, som Ti
LEP (Spain)	Long-term value: 10 mg/m ³
TWA (Italy)	Long-term value: 10 mg/m ³ A4
VLE (Portugal)	Long-term value: 10 mg/m ³ A4; Irritação do TRI
OEL (Sweden)	Long-term value: 5 mg/m ³ totaldamm

CAS: 100-41-4 ethylbenzene

IOELV (European Union)	Short-term value: 884 mg/m ³ , 200 ppm Long-term value: 442 mg/m ³ , 100 ppm Skin
AGW (Germany)	Long-term value: 88 mg/m ³ , 20 ppm 2(II); DFG, H, Y, EU
GV (Denmark)	Short-term value: 434 mg/m ³ , 100 ppm Long-term value: 217 mg/m ³ , 50 ppm EHK
LEP (Spain)	Short-term value: 884 mg/m ³ , 200 ppm Long-term value: 441 mg/m ³ , 100 ppm vía dérmica, VLB, VLI
TWA (Italy)	Long-term value: 87 mg/m ³ , 20 ppm A3, IBE
VL (Italy)	Short-term value: 884 mg/m ³ , 200 ppm Long-term value: 442 mg/m ³ , 100 ppm Cute
VLE (Portugal)	Long-term value: 20 ppm A3; IBE; Irrit. TRS; lesão dos rins, afeção auditiva
OEL (Sweden)	Short-term value: 884 mg/m ³ , 200 ppm Long-term value: 220 mg/m ³ , 50 ppm H

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HTP (Finland)	Short-term value: 880 mg/m ³ , 200 ppm Long-term value: 220 mg/m ³ , 50 ppm iho
CAS: 101-68-8 4,4'-methylenediphenyl diisocyanate	
AGW (Germany)	Long-term value: 0.05 E mg/m ³ 1;=2=(I);DFG, 11, 12, H, Sah, Y
GV (Denmark)	Short-term value: 0.1 mg/m ³ , 0.01 ppm Long-term value: 0.05 mg/m ³ , 0.005 ppm K
LEP (Spain)	Long-term value: 0.052 mg/m ³ , 0.005 ppm Sen, r
TWA (Italy)	Long-term value: 0.051 mg/m ³ , 0.005 ppm
VLE (Portugal)	Long-term value: 0.005 ppm sensibilização respiratória
OEL (Sweden)	Short-term value: 0.05 mg/m ³ , 0.005 ppm Long-term value: 0.03 mg/m ³ , 0.002 ppm M, S
HTP (Finland)	Short-term value: 0.035 mg/m ³ NCO
CAS: 4083-64-1 4-isocyanatosulphonyltoluene	
HTP (Finland)	Short-term value: 0.035 mg/m ³ NCO

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:

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes and skin.

Use a moisturising skin cream after processing the product.

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.

Hand protection Protective gloves against chemicals (standard EN 374-1)

Eye/face protection Safety glasses.

Body protection: Protective work clothing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Physical state

Fluid

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Colour:	Various colours
Odour:	Characteristic
Odour threshold:	Not determined.
Melting point/freezing point:	Undetermined.
Boiling point or initial boiling point and boiling range	Undetermined.
Flammability	Not applicable.
Lower and upper explosion limit	
Lower:	Not determined.
Upper:	Not determined.
Flash point:	Not applicable
Auto-ignition temperature:	Not determined.
Decomposition temperature:	Not determined.
pH	Mixture reacts violently with water. Not applicable. Not determined.
Viscosity:	
Kinematic viscosity	Not determined.
Kinematic viscosity dynamic:	Not determined.
Solubility	
Water:	Not miscible or difficult to mix
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure:	Not determined.
Vapour pressure:	
Density and/or relative density	
Density at 20 °C:	1.12-1.18 g/cm ³ (DIN 51757)
Relative density	Not determined.
Bulk density:	Not applicable.
Vapour density	Not determined.

9.2 Other information

Appearance:	
Form:	Pasty
Important information on protection of health and environment, and on safety.	
Ignition temperature:	Product is not self-igniting.
Explosive properties:	Product does not present an explosion hazard.
Minimum ignition energy	
Solvent separation test:	Not determined
Solvent content:	
Organic solvents:	≥6.8-<13 %
EU-VOC (%)	≥6-<9 %
Change in condition	
Softening point/range	
Oxidising properties	Not determined.
Evaporation rate	Not determined.

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Information with regard to physical hazard classes

Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable gases in contact with water	Void
Oxidising liquids	Void
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** Stable at recommended storage conditions**Thermal decomposition / Conditions to be avoided:**

No decomposition if used according to specifications.

10.3 Possibility of hazardous reactionsExothermic reaction with amines and alcohols. CO₂ generation with water; pressure build-up (danger of bursting) in closed containers.**10.4 Conditions to avoid** Minimize exposure to air and moisture to avoid a loss of product quality.**10.5 Incompatible materials:**

Oxydising agents.

Strong acids and strong bases.

10.6 Hazardous decomposition products:

Carbon monoxide and carbon dioxide

Nitrogen oxides (NO_x)**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity** Based on available data, the classification criteria are not met.

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LD/LC50 values relevant for classification:

Components	Type	Value	Species
CAS: 1330-20-7 xylene			
Oral	LD50	>3,523 mg/kg	(Rat)
Dermal	LD50	>12,126 mg/kg	(Rabbit)
Inhalative	LC50/4 h	>27 mg/l	(Rat)
CAS: 13463-67-7 titanium dioxide			
Oral	LD50	>5,000 mg/kg	(Rat)
CAS: 100-41-4 ethylbenzene			
Oral	LD50	>3,500 mg/kg	(Rat)
Dermal	LD50	>15,400 mg/kg	(Rabbit)
Inhalative	LC50/4 h	>17.6 mg/l	(Rat)
CAS: 101-68-8 4,4'-methylenediphenyl diisocyanate			
Oral	LD50	>2,000 mg/kg	(Rat)
Dermal	LD50	9,400 mg/kg	(Rabbit)
Inhalative	LC50/4 h	>0.431 mg/l	(Rat)
CAS: 4083-64-1 4-isocyanatosulphonyltoluene			
Oral	LD50	>2,330 mg/kg	(Rat)
Dermal	LD50	>2,000 mg/kg	(Rat)

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.

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

Carcinogenicity Suspected of causing cancer. Route of exposure: Inhalation.

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

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

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.

11.2 Information on other hazards
Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

12.1 Toxicity
Aquatic toxicity: Not classified as harmful to aquatic life

Type of test / Effective concentration / Method / Assessment	
CAS: 1330-20-7 xylene	
LC50/48h	>10 mg/l (Daphnia magna)
LC50/96h	>2.6 mg/l (Fish)

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EC50/24h	>1 mg/l (Daphnia magna)
EC50/72h	4.6-4.9 mg/l (Algae)
NOEC (21d)	1.57 mg/l (Daphnia magna)

CAS: 13463-67-7 titanium dioxide

IC50/72h	1 mg/l (Fish)
LC50/48h	100 mg/l (Daphnia magna)
EC50/48h	2.41-103.9 mg/l (Daphnia magna)
EC50/72h	3.58-100 mg/l (Daphnia magna)
	100 mg/l (Algae)
NOEC (72h)	100 mg/l (Algae)
NOEC (14d)	0.87-1.1 mg/l (Fish)
NOEC (21d)	5 mg/l (Daphnia magna)

CAS: 100-41-4 ethylbenzene

LC50/48h	3.2 mg/l (Daphnia magna)
	6.4 mg/l (Fish)
LC50/96h	2.6 mg/l (Daphnia magna)
	4.2-5.1 mg/l (Fish)
EC50/24h	96 mg/l (Activated sludge)
	2.4-2.8 mg/l (Daphnia magna)
EC50/48h	1.8-2.4 mg/l (Daphnia magna)
	7.2-7.5 mg/l (Algae)
EC50/96h	3.6-7.7 mg/l (Algae)
EC50/72h	4.9-5.4 mg/l (Algae)

CAS: 101-68-8 4,4'-methylenediphenyl diisocyanate

LC50/96h	>100 mg/l (Fish)
EC50/48h	>3.7 mg/l (Daphnia magna)
EC50/72h	>100 mg/l (Algae)
NOEC (72h)	>100 mg/l (Algae)
NOEC (21d)	10 mg/l (Daphnia magna)

CAS: 4083-64-1 4-isocyanatosulphonyltoluene

LC50/48h	45 mg/l (Fish)
LC50/96h	45 mg/l (Fish)
EC50/24h	100 mg/l (Daphnia magna)
EC50/48h	100 mg/l (Daphnia magna)
EC50/72h	25-30 mg/l (Algae)
NOEC (72h)	10 mg/l (Algae)

12.2 Persistence and degradability No further relevant information available.

Method
CAS: 1330-20-7 xylene

Biod. (28 days)	90-98 % (Biodegradation)
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CAS: 101-68-8 4,4'-methylenediphenyl diisocyanate

Biod. (28 days) | 0 % (Biodegradation)

Behaviour in environmental systems:
Components:
CAS: 1330-20-7 xylene

DT50-value (Degradation Half Time) | 1-2 day (Biodegradation)

CAS: 101-68-8 4,4'-methylenediphenyl diisocyanate

DT50-value (Degradation Half Time) | 1 day

12.3 Bioaccumulative potential
CAS: 1330-20-7 xylene

EBAB | 3.16 log Pow (Bioaccumulation)

Bioaccumulation Factor (BCF) | 3.16

CAS: 100-41-4 ethylbenzene

EBAB | 3.03-3.6 log Pow

CAS: 101-68-8 4,4'-methylenediphenyl diisocyanate

EBAB | 4.51 log Pow

Bioaccumulation Factor (BCF) | 200

CAS: 4083-64-1 4-isocyanatosulphonyltoluene

EBAB | 0.6 log Pow

12.4 Mobility in soil No further relevant information available.

12.5 Results of PBT and vPvB assessment
PBT: Does not contain PBT substances.

vPvB: Does not contain vPvB substances.

12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects
Behaviour in sewage processing plants:
Type of test / Effective concentration / Method / Assessment
CAS: 13463-67-7 titanium dioxide

EC 50 (3h) | 1,000 mg/l (Activated sludge)

CAS: 101-68-8 4,4'-methylenediphenyl diisocyanate

EC 50 (3h) | 1,000 mg/l (Activated sludge)

Other information:
CAS: 1330-20-7 xylene

 Chemical Oxygen Demand (COD) | 2.56-2.91 mg O₂/g (Biodegradation)

Additional ecological information:
General notes:

Danger to drinking water if even small quantities leak into the ground.

EUG

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

Do not dump into sewers or waterways. Waste and empty containers must be handled and eliminated according to current, local/national legislation. Follow the provisions of Directive 2008/98/EC regarding waste management.

European waste catalogue

08 04 09*	waste adhesives and sealants containing organic solvents or other hazardous substances
15 01 04	metallic packaging
HP7	Carcinogenic

Uncleaned packaging:

Recommendation:

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:	Not applicable.
14.6 Special precautions for user	Not applicable.
14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
UN "Model Regulation":	Void

SECTION 15: Regulatory information

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

Regulation (EC) No 1907/2006 (REACH) (Candidate List, Annexes XIV and XVII)

Regulation (EC) No 1272/2008 (CLP)

Regulation (EU) 2020/878 (amending REACH Annex II on the compilation of safety data sheets)

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Labelling according to Regulation (EC) No 1272/2008 cf. section 2**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, 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**Other regulations, limitations and prohibitive regulations****BG-Merkblätter:** M 044 "Polyurethane production/Isocyanates"**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.

Relevant phrases

The following list of relevant hazard statements is the full text of hazard statements mentioned elsewhere in this safety data sheet (in particular in the section 3) and is reported as required by the Regulation (EC) No 1907/2006 (REACH), Annex II, and the following amendments (Regulation (EU) 2020/878). The statements mentioned here do not refer to the product itself, but refer to the individual ingredients in the products, and are provided for information.

- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.

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H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
H351 Suspected of causing cancer.
H373 May cause damage to organs through prolonged or repeated exposure.
EUH014 Reacts violently with water.
EUH204 Contains isocyanates. May produce an allergic reaction.

Classification according to Regulation (EC) No 1272/2008

Skin corrosion/irritation Respiratory sensitisation Skin sensitisation Carcinogenicity	The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.
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Department issuing SDS: Quality**Contact:**

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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

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

ICAO: International Civil Aviation Organisation

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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern (REACH regulation)

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Flam. Liq. 3: Flammable liquids – Category 3

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

Asp. Tox. 1: Aspiration hazard – Category 1

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

According to Annex II of the REACH regulation, the modified sections in this version of the Safety Data Sheet in comparison with the previous one are marked with asterisks.