



SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

**BOSTIK PRO SEALANT PU91 CONSTRUCTION
POLYURETHANE BROWN**
Supersedes Date: 03-May-2022

Revision date 18-May-2022

Revision Number 3

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

1.1. Product identifier

Product Name BOSTIK PRO SEALANT PU91 CONSTRUCTION POLYURETHANE BROWN

Pure substance/mixture Mixture

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

Recommended use Sealant

Uses advised against Not to be used in production of toys or childcare articles

1.3. Details of the supplier of the safety data sheet

Company Name

Bostik Limited
Common Rd
ST16 3EH
Stafford UK
Tel: +44 (1785) 27 26 25
Fax: +44 (1785) 25 72 36

E-mail address SDS.box-EU@bostik.com

1.4. Emergency telephone number

United Kingdom +44 (1785) 272650
Ireland **NPIC - National Poison Information Centre**
Members of the Public: +353 (01) 8092166 (8.00 am to 10.00 pm - 7 days a week)
Healthcare Professionals: +353 (01) 8092566 (24 hour service)
Europe 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

2.2. Label elements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

Signal word
None

Hazard statements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

EU Specific Hazard Statements

EUH204 - Contains isocyanates. May produce an allergic reaction

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EUH208 - Contains Aromatic Polyisocyanate & Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate & Reaction product of Hexamethylene diisocyanate, oligomers with Mercaptopropyltrimethoxysilane. May produce an allergic reaction
EUH210 - Safety data sheet available on request

Precautionary Statements - EU (§28, 1272/2008)

P101 - If medical advice is needed, have product container or label at hand

P102 - Keep out of reach of children

2.3. Other hazards

Causes mild skin irritation. Harmful to aquatic life.

PBT & vPvB

This mixture contains no substance considered to be persistent, bioaccumulating or toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	EC No	CAS No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	REACH registration number
1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich	271-091-4	68515-49-1	10 - <20	[I]	-	01-2119422347-43
Diisononyl phthalate	249-079-5	28553-12-0	5 - <10	[I]	-	01-2119430798-28-XXXX
3-butyl-1-[4-({4-[(butylcarbamoyl)amino]phenyl}methyl)phenyl]urea	416-600-4	--	1 - <5	Aquatic Chronic 4 (H413)	-	01-0000016345-72-xxxx
N,N-dibenzyliden polyoxypropylene diamine (polymer)	-	136855-71-5	1- <2.5	Skin Irrit. 2 (H315)	-	[7]
Reaction mass of 3-methylphenyl diphenyl phosphate, 4-methylphenyl diphenyl phosphate, bis(3-methylphenyl) phenyl phosphate, 3-methylphenyl 4-methylphenyl phenyl phosphate and triphenyl phosphate	945-730-9	--	0.1 - <1	Aquatic Acute 1 (H400) Aquatic Chronic 3 (H412)	-	01-2119511174-52-xxxx
Aromatic Polyisocyanate	-	53317-61-6	0.1 - <1	Eye Irrit. 2 (H319) Skin Sens. 1 (H317)	-	[7]
Titanium dioxide	236-675-5	13463-67-7	0.1 - <1	[C]	-	01-2119489379-17-XXXX
C.I. Pigment Black 26	269-056-3	68186-94-7	0.1 - <1	[B]	-	01-2119457599-

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						19-XXXX
Ethyl acetate	205-500-4	141-78-6	0.1 - <1	Eye Irrit. 2 (H319) STOT SE 3 (H336) Flam. Liq. 2 (H225) (EUH066)	-	01-2119475103-46-XXXX
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	915-687-0	1065336-91-5	0.01 - <0.1	Skin Sens. 1A (H317) Repr. 2 (H361f) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	-	01-2119491304-40-XXXX
Reaction product of Hexamethylene diisocyanate, oligomers with Mercaptopropyltrimethoxysilane	924-669-1	192526-20-8	0.01 - <0.1	Skin Sens. 1A (H317)	-	01-2120768758-32-XXXX

NOTE [7] - No registration number is given for this substance because it is a polymer exempted from registration according to the provisions of Article 2(9) of REACH. All monomers or other substances within the polymer are registered or exempt from registration

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

Note: ^ indicates not classified, however, the substance is listed in section 3 as it has an OEL

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice	If medical advice is needed, have product container or label at hand. Show this safety data sheet to the doctor in attendance.
Inhalation	Remove to fresh air. IF exposed or concerned: Get medical advice/attention.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a doctor.
Skin contact	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a doctor.
Ingestion	Clean mouth with water. Do NOT induce vomiting. Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person.

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

Symptoms Prolonged contact may cause redness and irritation.

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

Note to doctors Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

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Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media No information available.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical No information available.

Hazardous combustion products Carbon oxides. Carbon dioxide (CO₂). Nitrogen oxides (NO_x). Hydrogen cyanide. Isocyanates. Hydrochloric Acid. Sulphur oxides.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for containment Do not scatter spilled material with high pressure water streams.

Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Ensure adequate ventilation.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature Keep at temperatures between 10 and 35 °C.

7.3. Specific end use(s)

Specific use(s)

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Sealant.

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

Other information Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits This product contains titanium dioxide in a non-respirable form. Inhalation of titanium dioxide is unlikely to occur from exposure to this product

Chemical name	European Union	United Kingdom
Limestone 1317-65-3	-	TWA: 10 mg/m ³ TWA: 4 mg/m ³ STEL: 30 mg/m ³ STEL: 12 mg/m ³
Polyvinyl chloride 9002-86-2	-	TWA: 10 mg/m ³ TWA: 4 mg/m ³ STEL: 30 mg/m ³ STEL: 12 mg/m ³
Diisononyl phthalate 28553-12-0	-	TWA: 5 mg/m ³ STEL: 15 mg/m ³
Iron oxide (Fe ₂ O ₃) 1309-37-1	-	TWA: 5 mg/m ³ TWA: 10 mg/m ³ TWA: 4 mg/m ³ STEL: 10 mg/m ³ STEL: 30 mg/m ³ STEL: 12 mg/m ³
C.I. Pigment Black 26 68186-94-7	TWA: 0.05 mg/m ³ Manganese respirable fraction	TWA: 0.2 mg/m ³ TWA: 0.05 mg/m ³ STEL: 0.6 mg/m ³ STEL: 0.15 mg/m ³
Titanium dioxide 13463-67-7	-	TWA: 10 mg/m ³ TWA: 4 mg/m ³ STEL: 30 mg/m ³ STEL: 12 mg/m ³
Ethyl acetate 141-78-6	TWA: 734 mg/m ³ TWA: 200 ppm STEL: 1468 mg/m ³ STEL: 400 ppm	TWA: 734 mg/m ³ TWA: 200 ppm STEL: 1468 mg/m ³ STEL: 400 ppm

Derived No Effect Level (DNEL) No information available

Derived No Effect Level (DNEL)			
1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich (68515-49-1)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Long term Systemic health effects	Dermal	41.67 mg/kg bw/d	
worker Long term Systemic health effects	Inhalation	5.29 mg/m ³	

Diisononyl phthalate (28553-12-0)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Long term Systemic health effects	Inhalation	51.72 mg/m ³	
worker	Dermal	366 mg/kg bw/d	

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Long term Systemic health effects			
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3-butyl-1-[4-({ 4-[(butylcarbamoyl)amino]phenyl} methyl)phenyl]urea (--)

Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Long term Systemic health effects	Inhalation	49.37 mg/m ³	
Long term Systemic health effects	Dermal	140 mg/kg bw/d	

Reaction mass of 3-methylphenyl diphenyl phosphate, 4-methylphenyl diphenyl phosphate, bis(3-methylphenyl) phenyl phosphate, 3-methylphenyl 4-methylphenyl phenyl phosphate and triphenyl phosphate (--)

Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Long term Systemic health effects	Inhalation	3.5 mg/m ³	
worker Short term Systemic health effects	Inhalation	28 mg/m ³	
worker Long term Systemic health effects	Dermal	0.5 mg/kg bw/d	
worker Short term Systemic health effects	Dermal	4 mg/kg bw/d	

Titanium dioxide (13463-67-7)

Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Long term Local health effects	Inhalation	10 mg/m ³	

Ethyl acetate (141-78-6)

Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Long term Systemic health effects	Dermal	63 mg/kg bw/d	
worker Short term Systemic health effects	Inhalation	1468 mg/m ³	
worker Long term Local health effects	Inhalation	734 mg/m ³	
worker Short term Local health effects	Inhalation	1468 mg/m ³	
worker Long term Systemic health effects	Inhalation	734 mg/m ³	

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate (1065336-91-5)

Type	Exposure route	Derived No Effect Level	Safety factor

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		(DNEL)	
worker Long term Systemic health effects	Inhalation	1.7 mg/m ³	
worker Long term Systemic health effects	Dermal	4.7 mg/kg bw/d	

Derived No Effect Level (DNEL)			
1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich (68515-49-1)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer Long term Systemic health effects	Oral	0.75 mg/kg bw/d	
Consumer Long term Systemic health effects	Dermal	20.38 mg/kg bw/d	
Consumer Long term Systemic health effects	Inhalation	1.3 mg/m ³	

3-butyl-1-[4-({ 4-[(butylcarbamoyl)amino]phenyl} methyl)phenyl]urea (--)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Long term Systemic health effects	Inhalation	7.4 mg/m ³	
Long term Systemic health effects	Dermal	50 mg/kg bw/d	
Long term Systemic health effects	Oral	5 mg/kg bw/d	

Reaction mass of 3-methylphenyl diphenyl phosphate, 4-methylphenyl diphenyl phosphate, bis(3-methylphenyl) phenyl phosphate, 3-methylphenyl 4-methylphenyl phenyl phosphate and triphenyl phosphate (--)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer Long term Systemic health effects	Inhalation	0.875 mg/m ³	
Consumer Short term Systemic health effects	Inhalation	7 mg/m ³	
Consumer Long term Systemic health effects	Dermal	0.25 mg/kg bw/d	
Consumer Short term Systemic health effects	Dermal	2 mg/kg bw/d	
Consumer Long term Systemic health effects	Oral	0.25 mg/kg bw/d	
Consumer Short term Systemic health effects	Oral	2 mg/kg bw/d	

Titanium dioxide (13463-67-7)			
Type	Exposure route	Derived No Effect Level	Safety factor

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		(DNEL)	
Consumer Long term Systemic health effects	Oral	700 mg/kg bw/d	

Ethyl acetate (141-78-6)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer Long term Systemic health effects	Oral	4.5 mg/kg bw/d	
Consumer Long term Systemic health effects	Dermal	37 mg/kg bw/d	
Consumer Short term Systemic health effects	Inhalation	734 mg/m ³	
Consumer Long term Local health effects	Inhalation	367 mg/m ³	
Consumer Short term Local health effects	Inhalation	734 mg/m ³	
Consumer Long term Systemic health effects	Inhalation	367 mg/m ³	

Reaction product of Hexamethylene diisocyanate, oligomers with Mercaptopropyltrimethoxysilane (192526-20-8)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer Long term Systemic health effects	Inhalation	0.3 mg/m ³	
Consumer Long term Systemic health effects	Dermal	1.7 mg/kg bw/d	
Consumer Long term Systemic health effects	Oral	0.2 mg/kg bw/d	

Predicted No Effect Concentration (PNEC) No information available.

Predicted No Effect Concentration (PNEC)	
3-butyl-1-[4-({ 4-[(butylcarbamoyl)amino]phenyl} methyl)phenyl]urea (--)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.1 mg/l
Marine water	0.01 mg/l
Sewage treatment plant	10 mg/l
Freshwater sediment	76.36 mg/kg dry weight
Marine sediment	7.636 mg/kg dry weight
Soil	15.15 mg/kg dry weight

Reaction mass of 3-methylphenyl diphenyl phosphate, 4-methylphenyl diphenyl phosphate, bis(3-methylphenyl) phenyl phosphate, 3-methylphenyl 4-methylphenyl phenyl phosphate and triphenyl phosphate (--)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.002 mg/l
Marine water	0 mg/l

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Freshwater - intermittent	0.005 mg/l
Marine water - intermittent	0.001 mg/l
Freshwater sediment	3.43 mg/kg dry weight
Marine sediment	0.343 mg/kg dry weight
Microorganisms in sewage treatment	No hazard identified
Soil	0.68 mg/kg dry weight

Titanium dioxide (13463-67-7)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Marine water	0.0184 mg/l
Freshwater sediment	1000 mg/kg
Freshwater	0.184 mg/l
Marine sediment	100 mg/kg
Soil	100 mg/kg
Microorganisms in sewage treatment	100 mg/l
Freshwater - intermittent	0.193 mg/l

Ethyl acetate (141-78-6)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.26 mg/l
Marine water	0.026 mg/l
Freshwater sediment	1.25 mg/kg
Marine sediment	0.125 mg/kg
Soil	0.24 mg/kg
Microorganisms in sewage treatment	650 mg/l

Reaction product of Hexamethylene diisocyanate, oligomers with Mercaptopropyltrimethoxysilane (192526-20-8)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.1 mg/l
Marine water	0.01 mg/l
Sewage treatment plant	100 mg/l
Freshwater sediment	0.428 mg/kg dry weight
Marine sediment	0.043 mg/kg dry weight

8.2. Exposure controls

Engineering controls

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles). Eye protection must conform to standard EN 166.

Hand protection

Nitrile rubber. Butyl rubber. Glove thickness > 0.4 mm. The breakthrough time of the gloves depends on the material and the thickness as well as the temperature. The breakthrough time for the mentioned glove material is in general greater than 60 min. Gloves must conform to standard EN 374

Skin and body protection

Suitable protective clothing.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

Recommended filter type:

Wear a respirator conforming to EN 140 with Type A/P2 filter or better. Organic gases and vapours filter conforming to EN 14387.

Environmental exposure controls No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Solid
Appearance	Paste
Colour	Brown
Odour	Characteristic.
Odour threshold	No information available

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<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
Melting point / freezing point	No data available	None known
Initial boiling point and boiling range	No data available	None known
Flammability	Not applicable for liquids .	
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Flash point	> 100 °C	
Autoignition temperature	No data available	None known
Decomposition temperature		None known
pH	No data available	None known
pH (as aqueous solution)	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	600 Pa.s	@ 20 °C
Water solubility	No data available	Insoluble in water
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Vapour pressure	No data available	None known
Relative density	No data available	None known
Bulk Density	No data available	
Density	1.31	
Relative vapour density	No data available	None known
Particle characteristics		
Particle Size	No information available	
Particle Size Distribution	No information available	

9.2. Other information

VOC Content (%) 1.6 g/L European directive n°2010/75/UE

9.2.1. Information with regards to physical hazard classes
Not applicable

9.2.2. Other safety characteristics
No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No information available.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid None known based on information supplied.

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10.5. Incompatible materials

Incompatible materials None known based on information supplied.

10.6. Hazardous decomposition products

Hazardous decomposition products None under normal use conditions. Stable under recommended storage conditions.

SECTION 11: Toxicological information

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

Information on likely routes of exposure

Product Information

Inhalation	Based on available data, the classification criteria are not met.
Eye contact	Based on available data, the classification criteria are not met.
Skin contact	Specific test data for the substance or mixture is not available. Causes mild skin irritation.
Ingestion	Based on available data, the classification criteria are not met.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Prolonged contact may cause redness and irritation.

Acute toxicity

Numerical measures of toxicity

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich	>60000 mg/kg (Rattus)	= 16000 mg/kg (Oryctolagus cuniculus)	> 0.13 mg/L (Rat) 6 h
Diisononyl phthalate	>9750 mg/kg (Rattus)	>3160 mg/Kg (Oryctolagus cuniculus)	>4.4 mg/L (Rattus) 4 h
3-butyl-1-[4-({4-[(butylcarbamoyl)amino]phenyl} methyl)phenyl]urea	>2000 mg/Kg (Rattus) (OECD 401)	>2000 mg/Kg (Rattus) (OECD 402)	-
Reaction mass of 3-methylphenyl diphenyl phosphate, 4-methylphenyl diphenyl phosphate, bis(3-methylphenyl) phenyl phosphate, 3-methylphenyl 4-methylphenyl phenyl phosphate and triphenyl phosphate	>5000 mg/Kg (Rattus)	>2000 mg/Kg (Rattus) (OECD 402)	-
Aromatic Polyisocyanate	LD50 >2000 mg/Kg (Rattus)	-	LC50 >3.820 mg/L (Rattus) 4h dust/mist
Titanium dioxide	>10000 mg/kg (Rattus)	LD50 > 5000 mg/Kg	= 5.09 mg/L (Rattus) 4 h

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C.I. Pigment Black 26	>10000 mg/kg Rat	-	-
Ethyl acetate	=5620 mg/kg (Rattus)	> 18000 mg/kg (Oryctolagus cuniculus) > 20 mL/kg (Oryctolagus cuniculus)	LC0 29.3 mg/l air
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	LD50 = 3230 mg/Kg (Rat) OECD 401	LD50 >3170 mg/Kg (Rat)	-
Reaction product of Hexamethylene diisocyanate, oligomers with Mercaptopropyltrimethoxysilane	>2000 mg/Kg (Rattus) (OECD 423)	>2000 mg/Kg (Rattus) (OECD 402)	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Classification based on data available for ingredients. May cause skin irritation.

Titanium dioxide (13463-67-7)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 404: Acute Dermal Irritation/Corrosion	Rabbit	Dermal			Non-irritant

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

Titanium dioxide (13463-67-7)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 405: Acute Eye Irritation/Corrosion	Rabbit	Eye			Non-irritant

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

Titanium dioxide (13463-67-7)

Method	Species	Exposure route	Results
OECD Test No. 406: Skin Sensitisation	Guinea pig	Dermal	Not a skin sensitiser
OECD Test No. 429: Skin Sensitisation: Local Lymph Node Assay	Mouse	Dermal	Not a skin sensitiser

Ethyl acetate (141-78-6)

Method	Species	Exposure route	Results
OECD Test No. 406: Skin Sensitisation	Guinea pig	Dermal	No sensitisation responses were observed

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

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

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

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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

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties

11.2.2. Other information

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity Harmful to aquatic life.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea	M-Factor	M-Factor (long-term)
1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich 68515-49-1	EC50: >1.3mg/L (96h, Pseudokirchneriella subcapitata)	LC50 96 h > 0.62 mg/L (Oncorhynchus mykiss)	-	EC50: >0.18mg/L (48h, Daphnia magna)		
Diisononyl phthalate 28553-12-0	EC50 72 h > 500 mg/L (Desmodesmus subspicatus)	LC50 96 h > 100 mg/L (Brachydanio rerio semi-static)	-	EC50: >0.06mg/L (48h, Daphnia magna) EC50: >500mg/L (48h, Daphnia magna)		
3-butyl-1-[4-({4-[(butylcarbamoyl)amino]phenyl}methyl)phenyl]urea --	-	LC50 (96h) >120 mg/L Danio rerio (OECD 203)	-	EC50 (48h) >100 mg/L Daphnia magna (OECD 202)		
Titanium dioxide 13463-67-7	LC50 (96h) >10000 mg/l (Cyprinodon variegatus) OECD 203	-	-	-		
C.I. Pigment Black 26 68186-94-7	-	96H >100000 mg/l	-	-		
Ethyl acetate 141-78-6	EC50: =3300mg/L (48h, Desmodesmus subspicatus)	LC50: =484mg/L (96h, Oncorhynchus mykiss) LC50: 352 - 500mg/L (96h, Oncorhynchus mykiss) LC50:	EC50 = 1180 mg/L 5 min EC50 = 1500 mg/L 15 min EC50 = 5870 mg/L 15 min EC50 = 7400 mg/L 2 h	EC50: =560mg/L (48h, Daphnia magna)		

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		220 - 250mg/L (96h, Pimephales promelas)				
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate 1065336-91-5	EC50 (72 h) 1,68 mg/l (growth rate), Desmodemus subspicatus (OECD 201)	LC50 (96 h) 0,9 mg/l, Brachydanio rerio (OECD 203)	-	-	1	1
Reaction product of Hexamethylene diisocyanate, oligomers with Mercaptopropyltrimethoxysilane 192526-20-8	EC50 (72h) >100 mg/L Algae (Raphidocelis subcapitata) (OECD 201)	LC50 (96h) >100 mg/L Fish (Brachydanio rerio) (OECD 203)	-	EC50 (48h) >100 mg/L Daphnia magna (OECD 202)		

12.2. Persistence and degradability

Persistence and degradability No information available.

3-butyl-1-[4-({ 4-[(butylcarbomoyl)amino]phenyl} methyl)phenyl]urea (--

Method	Exposure time	Value	Results
OECD Guideline 310	28 days	0.4%	Not readily biodegradable
OECD Test No. 301B: Ready Biodegradability: CO2 Evolution Test (TG 301 B)	28 days	11%	Not readily biodegradable

Reaction mass of 3-methylphenyl diphenyl phosphate, 4-methylphenyl diphenyl phosphate, bis(3-methylphenyl) phenyl phosphate, 3-methylphenyl 4-methylphenyl phenyl phosphate and triphenyl phosphate (--

Method	Exposure time	Value	Results
OECD Test No. 301C: Ready Biodegradability: Modified MITI Test (I) (TG 301 C)	28 days	75%	Readily biodegradable

Aromatic Polyisocyanate (53317-61-6)

Method	Exposure time	Value	Results
OECD Test No. 301F: Ready Biodegradability: Manometric Respirometry Test (TG 301 F)		biodegradation	34 % Not readily biodegradable

Ethyl acetate (141-78-6)

Reaction product of Hexamethylene diisocyanate, oligomers with Mercaptopropyltrimethoxysilane (192526-20-8)

Method	Exposure time	Value	Results
OECD Test No. 301C: Ready Biodegradability: Modified MITI Test (I) (TG 301 C)	28 days	3.85%	Not readily biodegradable

12.3. Bioaccumulative potential

Bioaccumulation

Component Information

Chemical name	Partition coefficient
1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich	8.8
Diisononyl phthalate	9.7

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3-butyl-1-[4-({ 4-[(butylcarbonyl)amino]phenyl} methyl)phenyl]urea	5.5
Reaction mass of 3-methylphenyl diphenyl phosphate, 4-methylphenyl diphenyl phosphate, bis(3-methylphenyl) phenyl phosphate, 3-methylphenyl 4-methylphenyl phenyl phosphate and triphenyl phosphate	4.5
Ethyl acetate	0.73
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	2.77

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment The product does not contain any substance(s) classified as PBT or vPvB.

Chemical name	PBT and vPvB assessment
1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich	The substance is not PBT / vPvB
Diisononyl phthalate	The substance is not PBT / vPvB PBT assessment does not apply
Titanium dioxide	The substance is not PBT / vPvB PBT assessment does not apply
C.I. Pigment Black 26	The substance is not PBT / vPvB PBT assessment does not apply
Ethyl acetate	The substance is not PBT / vPvB PBT assessment does not apply
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	The substance is not PBT / vPvB

12.6. Endocrine disrupting properties

Endocrine disrupting properties No information available.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Do not reuse empty containers.

European Waste Catalogue 08 04 10 waste adhesives and sealants other than those mentioned in 08 04 09

Other information Waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14: Transport information

Land transport (ADR/RID)

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14.1 UN number or ID number Not regulated
14.2 Proper Shipping Name Not regulated
14.3 Transport hazard class(es) Not regulated
14.4 Packing group Not regulated
14.5 Environmental hazards Not applicable
14.6 Special Provisions None

IMDG

14.1 UN number or ID number Not regulated
14.2 Proper Shipping Name Not regulated
14.3 Transport hazard class(es) Not regulated
14.4 Packing group Not regulated
14.5 Marine pollutant NP
14.6 Special Provisions None
14.7 Maritime transport in bulk according to IMO instruments Not applicable

Air transport (ICAO-TI / IATA-DGR)

14.1 UN number or ID number Not regulated
14.2 Proper Shipping Name Not regulated
14.3 Transport hazard class(es) Not regulated
14.4 Packing group Not regulated
14.5 Environmental hazards Not applicable
14.6 Special Provisions None

Section 15: REGULATORY INFORMATION

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

European Union

Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006)

SVHC: Substances of Very High Concern for Authorisation:

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

EU-REACH (1907/2006) - Annex XVII - Substances subject to Restriction

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

Chemical name	CAS No	Restricted substance per REACH Annex XVII
1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich	68515-49-1	52[b].
Diisononyl phthalate	28553-12-0	52[a].

52 . Not to be used in toys or childcare articles above 0.1% which can be placed in the mouth by children.

Substance subject to authorisation per REACH Annex XIV

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

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Persistent Organic Pollutants

Not applicable

National regulations

15.2. Chemical safety assessment

Chemical Safety Assessments have been carried out by the Reach registrants for substances registered at >10 tpa. No Chemical Safety Assessment has been carried out for this mixture

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3

EUH066 - Repeated exposure may cause skin dryness or cracking

H225 - Highly flammable liquid and vapour

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H336 - May cause drowsiness or dizziness

H361f - Suspected of damaging fertility

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

H412 - Harmful to aquatic life with long lasting effects

H413 - May cause long lasting harmful effects to aquatic life

Legend

TWA

TWA (time-weighted average)

STEL

STEL (Short Term Exposure Limit)

Ceiling

Ceiling Limit Value

*

Skin designation

SVHC

Substance(s) of Very High Concern

PBT

Persistent, Bioaccumulative, and Toxic (PBT) Chemicals

vPvB

Very Persistent and very Bioaccumulative (vPvB) Chemicals

STOT RE

Specific target organ toxicity - Repeated exposure

STOT SE

Specific target organ toxicity - Single exposure

EWC

European Waste Catalogue

ADR

European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG

International Maritime Dangerous Goods (IMDG)

IATA

International Air Transport Association (IATA)

RID

Regulations concerning the International Transport of Dangerous Goods by Rail

Key literature references and sources for data

No information available

Prepared By

Product Safety & Regulatory Affairs

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Indication of changes

Revision note

SDS sections updated, 2.

Training Advice

No information available

Further information

No information available

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This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet