

This safety data sheet was created pursuant to the requirements of: REACH Regulation (EC) No 1907/2006, as retained in UK law by (SI 2019/758 as amended)

BOSTIK PRO SEALANT PU91 CONSTRUCTION POLYURETHANE BLACK
Supercedes date 21-Nov-2023

Revision date 08-Jul-2024

Revision Number 3.02

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

1.1. Product identifier

Product Name BOSTIK PRO SEALANT PU91 CONSTRUCTION POLYURETHANE BLACK

Pure substance/mixture Mixture

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

Recommended use Sealant

Uses advised against None known

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 Bostik: +44 (1785) 272650 (9am to 5pm Mon-Fri)

NHS: 111

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP (SI 2020/1567 as amended)

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

EUH210 - Safety data sheet available on request

EUH208 - Contains isocyanates & Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl

1,2,2,6,6-pentamethyl-4-piperidyl sebacate. May produce an allergic reaction

United Kingdom - BE Page 1 / 18

BOSTIK PRO SEALANT PU91 CONSTRUCTION POLYURETHANE BLACK
Supercedes date 21-Nov-2023

Revision date 08-Jul-2024

Revision Number 3.02

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 (EU Index No).	CAS No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-ter m)	registration number
Urea, N,N"-(methylenedi-4,1-p henylene)bis[N'-butyl- 1 - <5 %	416-600-4		Aquatic Chronic 4 (H413)	-	-		01-0000016345- 72-xxxx
Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics 1 - <2.5 %	920-107-4	RR-100255-7	(EUH066)	-	-	-	01-2119453414- 43-xxxx
N,N-dibenzyliden polyoxypropylene diamine (polymer) 1 - <2.5 %	-	136855-71-5	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 0.1 - <0.5 %	945-730-9		Aquatic Acute 1 (H400) Aquatic Chronic 3 (H412)	-	-	-	01-2119511174- 52-xxxx
Aromatic Polyisocyanate 0.1 - <0.5 %	500-120-8	53317-61-6	Eye Irrit. 2 (H319) Skin Sens. 1 (H317)	-	-	-	[7]
Ethyl acetate 0.1 - <0.3 %	205-500-4 (607-022-00- 5)	141-78-6	Eye Irrit. 2 (H319) STOT SE 3 (H336) Flam. Liq. 2 (H225) (EUH066)	-	-	-	01-2119475103- 46-XXXX
Isophorone diisocyanate 0.05 - <0.1 %	223-861-6 (615-008-00- 5)		Acute Tox. 1 (H330) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Resp. Sens. 1 (H334) Skin Sens. 1 (H317) STOT SE 3 (H335) Aquatic Chronic 2 (H411)	Resp. Sens. 1 :: C>=0.5% Skin Sens. 1 :: C>=0.5%	-		01-2119490408- 31-XXXX
Reaction mass of Bis(1,2,2,6,6-pentamethy I-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4- piperidyl sebacate	915-687-0	1065336-91-5	Skin Sens. 1A (H317) Repr. 2 (H361f) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	-	1	1	01-2119491304- 40-XXXX

United Kingdom - BE Page 2 / 18

BOSTIK PRO SEALANT PU91 CONSTRUCTION POLYURETHANE BLACK
Supercedes date 21-Nov-2023

Revision date 08-Jul-2024

Revision Number 3.02

0.05 - <0.1 %							
Reaction product of Hexamethylene	924-669-1	192526-20-8	Skin Sens. 1A (H317)	-	-	-	01-2120768758- 32-XXXX
diisocyanate, oligomers							
with							
Mercaptopropyltrimethox							
ysilane							
0.05 - <0.1 %							

Substances identified by a number starting "RR-" in the CAS-field are substances for which the CAS# is not adopted in EU and we use an internal numbering system to track within our SDS software

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

The substance does not require registration according to REACH - Notes

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

Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical name	EC No (EU	CAS No.	Oral LD50	Dermal LD50	Inhalation	Inhalation	Inhalation
	Index No)		mg/kg	mg/kg	LC50 - 4 hour -	LC50 - 4 hour -	LC50 - 4 hour -
	,				dust/mist -	vapour - mg/L	gas - ppm
					mg/L	1.5pccg/ _	gao pp
Urea.	416-600-4	77703-56-1			mg/L		
N,N"-(methylenedi-4,1-	410-000-4	11103-30-1	_	_	_	_	-
phenylene)bis[N'-butyl-							
Hydrocarbons,	920-107-4	RR-100255-7					
C12-C15, n-alkanes,	920-107-4	100255-7	_	-	_	-	-
isoalkanes, cyclics, <							
2% aromatics							
Reaction mass of	945-730-9		_	_	_	_	_
3-methylphenyl	343 730 3		_	_		_	_
diphenyl phosphate,							
4-methylphenyl							
diphenyl phosphate,							
bis(3-methylphenyl)							
phenyl phosphate,							
3-methylphenyl							
4-methylphenyl phenyl							
phosphate and triphenyl							
phosphate							
Aromatic	500-120-8	53317-61-6	-	-	-	-	-
Polyisocyanate							
Ethyl acetate	205-500-4	141-78-6	-	-	-	14.4131	-
	(607-022-00-5)						
Isophorone	223-861-6	4098-71-9	-	-	0.031	-	-
diisocyanate	(615-008-00-5)						
Reaction mass of	915-687-0	1065336-91-5	-	-	-	-	-
Bis(1,2,2,6,6-pentamet							
hyl-4-piperidyl)							
sebacate and Methyl							
1,2,2,6,6-pentamethyl-4							
-piperidyl sebacate							
Reaction product of	924-669-1	192526-20-8	-	-	-	-	-
Hexamethylene							
diisocyanate, oligomers							

United Kingdom - BE Page 3 / 18

BOSTIK PRO SEALANT PU91 CONSTRUCTION POLYURETHANE BLACK
Supercedes date 21-Nov-2023

Revision date 08-Jul-2024

Revision Number 3.02

Chemical name	EC No (EU Index No)	CAS No.	Oral LD50 mg/kg	Dermal LD50 mg/kg	LC50 - 4 hour -	Inhalation LC50 - 4 hour - vapour - mg/L	Inhalation LC50 - 4 hour - gas - ppm
with Mercaptopropyltrimetho xysilane)						

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

Notes

See section 16 for more information

Chemical name	Notes
Isophorone diisocyanate - 4098-71-9	2

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.

Effects of Exposure No information available.

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

Note to doctors No information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

surrounding environment.

Unsuitable extinguishing media No information available.

United Kingdom - BE Page 4 / 18

BOSTIK PRO SEALANT PU91 CONSTRUCTION POLYURETHANE BLACK Supercedes date 21-Nov-2023

Revision date 08-Jul-2024

Revision Number 3.02

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the No information available.

chemical

Carbon oxides. Carbon monoxide. Carbon dioxide (CO2). Nitrogen oxides (NOx). **Hazardous combustion products**

Hydrogen cyanide. Isocyanates. Hydrochloric Acid.

5.3. Advice for firefighters

precautions for fire-fighters

Special protective equipment and 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

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Ensure adequate ventilation. Advice on safe handling

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

7.2. Conditions for safe storage, including any incompatibilities

Protect from moisture. **Storage Conditions**

Recommended storage

temperature

Keep at temperatures between 10 and 35 °C.

7.3. Specific end use(s)

Specific use(s)

Sealant.

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

Observe technical data sheet. Other information

United Kingdom - BE Page 5 / 18

BOSTIK PRO SEALANT PU91 CONSTRUCTION POLYURETHANE BLACK
Supercedes date 21-Nov-2023

Revision date 08-Jul-2024

Revision Number 3.02

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

This product contains carbon black in a non-respirable form. Inhalation of carbon black is unlikely to occur from exposure to this product

Chemical name	European Union	United Kingdom
Limestone	-	TWA: 10 mg/m ³
1317-65-3		TWA: 4 mg/m ³
		STEL: 30 mg/m ³
		STEL: 12 mg/m ³
Polyvinyl chloride	-	TWA: 10 mg/m ³
9002-86-2		TWA: 4 mg/m ³
		STEL: 30 mg/m ³
		STEL: 12 mg/m ³
Carbon black	-	TWA: 3.5 mg/m ³
1333-86-4		STEL: 7 mg/m ³
Ethyl acetate	TWA: 734 mg/m ³	TWA: 734 mg/m ³
141-78-6	TWA: 200 ppm	TWA: 200 ppm
	STEL: 1468 mg/m ³	STEL: 1468 mg/m ³
	STEL: 400 ppm	STEL: 400 ppm
Isophorone diisocyanate	TWA: 10 μg NCO / m³ (2.9 ppb)	TWA: 0.02 mg/m ³
4098-71-9	STEL: 20 µg NCO / m³ (5.8 ppb)	STEL: 0.07 mg/m ³
	Sk* +	Sen+

Chemical name	European Union	Ireland	United Kingdom
Isophorone diisocyanate	-	1 µmol/mol Creatinine (urine -	1 mmol isocyanate-derived
4098-71-9		urinary Diamine post task)	diamine/mol creatinine - urine () -
			end of the period of exposure

Derived No Effect Level (DNEL) No information available

Derived No Effect Level (DNEL)					
Urea, N,N"-(methylenedi-4,1-phenylene)bis[N'-butyl- (77703-56-1)					
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor		
Long term Systemic health effects	Inhalation	49.37 mg/m³			
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 phosphate and triphenyl phosphate ()				
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor	
worker Long term Systemic health effects	Inhalation	3.5 mg/m³		
worker Short term Systemic health effects	Inhalation	28 mg/m³		
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		

Ethyl acetate (141-78-6)

United Kingdom - BE Page 6 / 18

BOSTIK PRO SEALANT PU91 CONSTRUCTION POLYURETHANE BLACK Supercedes date 21-Nov-2023

Revision date 08-Jul-2024

Revision Number 3.02

Туре	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/m³	
worker Long term Local health effects	Inhalation	734 mg/m³	
worker Short term Local health effects	Inhalation	1468 mg/m³	
worker Long term Systemic health effects	Inhalation	734 mg/m³	

Isophorone diisocyanate (4098-71-9)				
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor	
worker Short term Local health effects	Inhalation	0.0453 mg/m³		
worker Long term Local health effects	Inhalation	0.0453 mg/m³		

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 (DNEL)	Safety factor	
worker Long term Systemic health effects	Inhalation	1.27 mg/m³		
worker Systemic health effects Long term	Dermal	1.8 mg/kg		

Reaction product of Hexamethylene diisocyanate, oligomers with Mercaptopropyltrimethoxysilane (192526-20-8)			
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Long term Systemic health effects	Inhalation	1.7 mg/m³	
worker Long term Systemic health effects	Dermal	4.7 mg/kg bw/d	

Derived No Effect Level (DNEL)				
Urea, N,N"-(methylenedi-4,1-ph	Urea, N,N"-(methylenedi-4,1-phenylene)bis[N'-butyl- (77703-56-1)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor	
Long term Systemic health effects	Inhalation	7.4 mg/m³		
Long term Systemic health effects	Dermal	50 mg/kg bw/d		
Long term	Oral	5 mg/kg bw/d		

United Kingdom - BE Page 7 / 18

BOSTIK PRO SEALANT PU91 CONSTRUCTION POLYURETHANE BLACK
Supercedes date 21-Nov-2023

Systemic health effects

Consumer

Revision date 08-Jul-2024

Revision Number 3.02

Systemic health effects			
		4-methylphenyl diphenyl phosph	
ohenyl phosphate, 3-methyl	phenyl 4-methylphenyl phei	nyl phosphate and triphenyl pho	sphate (
Гуре	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer	Inhalation	0.875 mg/m ³	
Long term Systemic health effects			
Consumer Short term Systemic health effects	Inhalation	7 mg/m³	
Consumer	Dermal	0.25 mg/kg bw/d	
Long term Systemic health effects	Berniai	0.23 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	Oral	2 mg/kg bw/d	
Systemic health effects			
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/m³	
Consumer Long term Local health effects	Inhalation	367 mg/m³	
Consumer Short term Local health effects	Inhalation	734 mg/m³	
Consumer Long term Systemic health effects	Inhalation	367 mg/m³	
sebacate (1065336-91-5)	i,6-pentamethyl-4-piperidyl)	sebacate and Methyl 1,2,2,6,6-p	
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer Long term Systemic health effects	Inhalation	0.31 mg/m³	
Consumer Long term	Dermal	0.9 mg/kg	

United Kingdom - BE Page 8 / 18

0.18 mg/kg

Oral

BOSTIK PRO SEALANT PU91 CONSTRUCTION POLYURETHANE BLACK Supercedes date 21-Nov-2023

Revision date 08-Jul-2024

Revision Number 3.02

Long term Systemic health effects		

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/m³	
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)

Predicted No Effect Concentration (PNEC)			
Urea, N,N"-(methylenedi-4,1-phenylene)bis[N'-butyl- (77703	/		
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	
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	

Ethyl acetate (141-78-6)		
Environmental compartment	Predicted No Effect Concentration (PNEC)	
Freshwater	0.24 mg/l	
Marine water	0.024 mg/l	
Freshwater sediment	1.15 mg/kg	
Marine sediment	0.115 mg/kg	
Soil	0.148 mg/kg	
Microorganisms in sewage treatment	650 mg/l	

Isophorone diisocyanate (4098-71-9)		
Environmental compartment	Predicted No Effect Concentration (PNEC)	
Freshwater	60 μg/l	
Marine water	6 μg/l	
Freshwater - intermittent	40 μg/l	
Freshwater sediment	218.9 mg/kg dry weight	
Marine sediment	21.89 mg/kg dry weight	
Soil	44.01 mg/kg dry weight	
Microorganisms in sewage treatment	10 mg/l	

United Kingdom - BE Page 9 / 18

BOSTIK PRO SEALANT PU91 CONSTRUCTION POLYURETHANE BLACK
Supercedes date 21-Nov-2023

Revision date 08-Jul-2024

Revision Number 3.02

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)		
Environmental compartment	Predicted No Effect Concentration (PNEC)	
Freshwater	0.0022 mg/l	
Marine water	0.00022 mg/l	
Freshwater - intermittent	0.009 mg/l	
Freshwater sediment	1.05 mg/kg	
Marine sediment	0.11 mg/kg	
Soil	0.21 mg/kg	
Sewage treatment plant	1 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 stateSolidAppearancePasteColourBlackOdourCharacteristic.

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

Melting point / freezing point No data available None known

Initial boiling point and boiling Not applicable .

range

Flammability No data available

Flammability Limit in Air None known

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

Flash point > 61 °C

Autoignition temperatureNo data availableNone knownDecomposition temperatureNone known

pHNo data availableNot applicable.pH (as aqueous solution)No data availableNone known

United Kingdom - BE Page 10 / 18

BOSTIK PRO SEALANT PU91 CONSTRUCTION POLYURETHANE BLACK

Supercedes date 21-Nov-2023 Revision Number 3.02

Revision date 08-Jul-2024

Kinematic viscosity approx 465000 mm²/s **Dynamic viscosity** approx 600000 mPa s

Water solubility
No data available.
None known
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
None known

Bulk density No data available

Density 1.29

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

Solid content (%) No information available

VOC content No data available

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 None.

impact

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 Product cures with moisture. Protect from moisture.

10.5. Incompatible materials

Incompatible materialsNone known based on information supplied.

10.6. Hazardous decomposition products

Hazardous decompositionNone under normal use conditions. Stable under recommended storage conditions.

products

SECTION 11: Toxicological information

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

United Kingdom - BE Page 11 / 18

BOSTIK PRO SEALANT PU91 CONSTRUCTION POLYURETHANE BLACK
Supercedes date 21-Nov-2023

Revision date 08-Jul-2024

Revision Number 3.02

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

The following values are calculated based on chapter 3.1 of the GHS document

 ATEmix (oral)
 >2000 mg/kg

 ATEmix (dermal)
 9,303.50 mg/kg

 ATEmix (inhalation-gas)
 >20000 ppm

 ATEmix (inhalation-dust/mist)
 >5 mg/l

 ATEmix (inhalation-vapour)
 >20 mg/l

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Urea,	>2000 mg/Kg (Rattus)	>2000 mg/Kg (Rattus)	-
N,N"-(methylenedi-4,1-phenyle	(OECD 401)	(OECD 402)	
ne)bis[N'-butyl-			
Hydrocarbons, C12-C15,	LD50 >5000 mg/Kg (Rattus)	LD50 >5000 mg/Kg	LC50 >5000 mg/m ³
n-alkanes, isoalkanes, cyclics,	(OECD 401)	(Oryctolagus cuniculus)	(OECD 403)
< 2% aromatics		(OECD 402)	
Reaction mass of	>5000 mg/Kg (Rattus)	>2000 mg/Kg (Rattus)	-
3-methylphenyl diphenyl		(OECD 402)	
phosphate, 4-methylphenyl			
diphenyl phosphate,			
bis(3-methylphenyl) phenyl			
phosphate, 3-methylphenyl			
4-methylphenyl phenyl			
phosphate and triphenyl phosphate			
	I DEO > 2000 mg/Kg (Bottus)		LC50 - 2 920 mg/L (Bottus) 4h
Aromatic Polyisocyanate	LD50 >2000 mg/Kg (Rattus)	-	LC50 >3.820 mg/L (Rattus) 4h dust/mist
Ethyl acetate	=5620 mg/kg (Rattus)	> 18000 mg/kg (Oryctolagus	LC0 29.3 mg/l air
Etriyi acetate	=5620 Hig/kg (Rattus)	cuniculus) > 20 mL/kg	LC0 29.3 mg/r an
		(Oryctolagus cuniculus)	
Isophorone diisocyanate	=4814 mg/kg (Rattus)	LD50 > 2000 mg/kg	=0.135 mg/L (Rattus) 4 h
Reaction mass of	LD50 = 3230 mg/Kg (Rattus)	LD50 >3170 mg/Kg (Rattus)	=0.105 mg/L (Natids) 4 m
Bis(1,2,2,6,6-pentamethyl-4-pi	(OECD 401)	(OECD 402)	-
peridyl) sebacate and Methyl	(0200 401)	(0200 402)	
1,2,2,6,6-pentamethyl-4-piperi			
dyl sebacate			
Reaction product of	>2000 mg/Kg (Rattus)	>2000 mg/Kg (Rattus)	-
Hexamethylene diisocyanate,	(OECD 423)	(OECD 402)	

United Kingdom - BE Page 12 / 18

BOSTIK PRO SEALANT PU91 CONSTRUCTION POLYURETHANE BLACK Supercedes date 21-Nov-2023

Revision date 08-Jul-2024

Revision Number 3.02

oligomers with			,
Marsanton van ultvina atla ava allan a			
wercaptopropyitrimethoxysiiane	lercaptopropyltrimethoxysilane	ne	

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. Causes mild skin irritation.

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

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

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

Component Information Ethyl acetate (141-78-6)

Method	Species	Results
OECD Test No. 474: Mammalian Erythrocyte	in vivo Hamster	Negative
Micronucleus Test		
OECD Test No. 471: Bacterial Reverse	in vitro Salmonella typhimurium	Negative
Mutation Test		
OECD Test No. 473: In vitro Mammalian	in vitro Hamster Ovary	Negative
Chromosome Aberration Test	-	

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

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 exposureBased 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.

United Kingdom - BE Page 13 / 18

BOSTIK PRO SEALANT PU91 CONSTRUCTION POLYURETHANE BLACK
Supercedes date 21-Nov-2023

Revision date 08-Jul-2024

Revision Number 3.02

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea	M-Factor	M-Factor (long-term)
Urea, N,N"-(methylenedi-4,1- phenylene)bis[N'-butyl- 77703-56-1	-	LC50 (96h) >120 mg/L Danio rerio (OECD 203)	-	EC50 (48h) >100 mg/L Daphnia magna (OECD 202)		(iong tom)
Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics RR-100255-7	ErL50 (72h) > 10000 mg/l (Skeletonema costatum -ISO 10253)	LL50 (96h) > 1028 mg/l (Scophthalmus maximus -OECD 203)	-	LL50 (48h) > 3193 mg/l (Acartia tonsa - ISO 14669)		
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: 220 - 250mg/L (96h, Pimephales promelas)	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)		
Isophorone diisocyanate 4098-71-9	EC50: =118.7mg/L (72h, Desmodesmus subspicatus)	LC50: =1.8mg/L (48h, Leuciscus idus)	-	EC50: =83.7mg/L (24h, Daphnia magna)		
Reaction mass of Bis(1,2,2,6,6-pentamet hyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl- 4-piperidyl sebacate 1065336-91-5	EC50 (72h): 1.68 mg/l (Desmodesmus subspicatus) OECD 201	mg/L (Brachydanio rerio) OECD 203	EC20 (3h)>= 100 mg/l OECD 209	-	1	1
Reaction product of Hexamethylene diisocyanate, oligomers with Mercaptopropyltrimetho xysilane 192526-20-8	subcapitata)	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.

Urea, N,N"-(methylenedi-4,1-phenylene)bis[N'-butyl- (77703-56-1)

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

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

Method	Exposure time	Value	Results
OECD Test No. 301C: Ready	28 days	75%	Readily biodegradable

United Kingdom - BE Page 14 / 18

BOSTIK PRO SEALANT PU91 CONSTRUCTION POLYURETHANE BLACK Supercedes date 21-Nov-2023

Revision date 08-Jul-2024

Revision Number 3.02

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Aromatic Polyisocyanate (53317-61-6)

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

Isophorone diisocyanate (4098-71-9)

Method	Exposure time	Value	Results
EU C.4-D	28 days	0%	Not readily biodegradable

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

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

12.3. Bioaccumulative potential

Bioaccumulation

Component Information

Component information	
Chemical name	Partition coefficient
Urea, N,N"-(methylenedi-4,1-phenylene)bis[N'-butyl-	5.5
Reaction mass of 3-methylphenyl diphenyl phosphate,	4.5
4-methylphenyl diphenyl phosphate, bis(3-methylphenyl)	
phenyl phosphate, 3-methylphenyl 4-methylphenyl phenyl	
phosphate and triphenyl phosphate	
Ethyl acetate	0.73
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl)	2.77
sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl	
sebacate	

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessmentThe product does not contain any substance(s) classified as PBT or vPvB above the threshold of declaration.

Chemical name	PBT and vPvB assessment
Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2%	The substance is not PBT / vPvB
aromatics	
Ethyl acetate	The substance is not PBT / vPvB
Isophorone diisocyanate	The substance is not PBT / vPvB
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	The substance is not PBT / vPvB
and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	

12.6. Endocrine disrupting properties

Endocrine disrupting properties No information available.

12.7. Other adverse effects

No information available.

United Kingdom - BE Page 15 / 18

BOSTIK PRO SEALANT PU91 CONSTRUCTION POLYURETHANE BLACK
Supercedes date 21-Nov-2023

Revision date 08-Jul-2024

Revision Number 3.02

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)

14.1 UN number or ID number Not regulated

14.2 UN proper shipping name

14.3 Transport hazard class(es)
 14.4 Packing group
 14.5 Environmental hazards
 Not regulated Not regulated Not applicable

14.6 Special precautions for user

Special Provisions None

IMDG

14.1 UN number or ID number
 14.2 UN proper shipping name
 14.3 Transport hazard class(es)
 14.4 Packing group
 Not regulated
 Not regulated
 Not regulated
 Not regulated

14.5 Marine pollutant NP
 14.6 Special precautions for user Special Provisions None

14.7 Maritime transport in bulk according to IMO instruments

Transport in bulk according to Annex II of MARPOL and the IBC Code Not applicable

Air transport (ICAO-TI / IATA-DGR)

14.1 UN number or ID number
 14.2 UN proper shipping name
 14.3 Transport hazard class(es)
 14.4 Packing group
 14.5 Environmental hazards
 Not regulated Not regulated Not applicable

14.6 Special precautions for user 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, Authorisation, 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 >=0.1% (Regulation (EC) No.

United Kingdom - BE Page 16 / 18

BOSTIK PRO SEALANT PU91 CONSTRUCTION POLYURETHANE BLACK
Supercedes date 21-Nov-2023

Revision date 08-Jul-2024

Revision Number 3.02

1907/2006 (REACH), Article 59)

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

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

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)

Export Notification requirements

This product does not contain substances which are regulated pursuant to Regulation (EC) No. 649/2012 of the European parliament and of the council concerning the export and import of dangerous chemicals above the level that triggers a labeling obligation under Regulation (EC) No 1272/2008. Therefore this product is not subject to prior informed consent notification.

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

Not applicable

Persistent Organic Pollutants

Not applicable

REGULATION (EU) 2019/1148 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 20 June 2019 on the marketing and use of explosives precursors

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

H225 - Highly flammable liquid and vapour

H304 - May be fatal if swallowed and enters airways

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H330 - Fatal if inhaled

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

H335 - May cause respiratory irritation

H336 - May cause drowsiness or dizziness

H361f - Suspected of damaging fertility

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

H411 - 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

Notes relating to the classification and labelling of mixtures

Note 2: The concentration of isocyanate stated is the percentage by weight of the free monomer calculated with reference to the total weight of the mixture

United Kingdom - BE Page 17 / 18

BOSTIK PRO SEALANT PU91 CONSTRUCTION POLYURETHANE BLACK

Supercedes date 21-Nov-2023 Revision Number 3.02

Revision date 08-Jul-2024

Legend

TWA TWA (time-weighted average)
STEL STEL (Short Term Exposure Limit)

Ceiling Ceiling Limit Value Sk* 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

Revision date 08-Jul-2024

Indication of changes

Revision note SDS sections updated, 2.

Training Advice AS FROM 24 AUGUST 2023 ADEQUATE TRAINING IS REQUIRED BEFORE

INDUSTRIAL OR PROFESSIONAL USE For further information, please contact:

https://www.safeusediisocyanates.eu/

Further information No information available

This SDS complies with the requirements of UK REACH Regulations SI 2019/758 (as amended)

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

United Kingdom - BE Page 18 / 18