



SAFETY DATA SHEET

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**
Supersedes date 14-Jul-2025

Revision date 22-Apr-2026

Revision Number 3.04

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

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Special provisions concerning the labelling of certain mixtures

Do not allow product/residues (including cleaning residues) to enter drains, waterways or soil and dispose of according to regulations. Follow the instructions of use and disposal to prevent releases of product to the environment.

2.3. Other hazards

Causes mild skin irritation.

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	Weight-%	REACH registration number	EC No. (Index No.)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)	Notes
Urea, N,N'-(methylenedi-4,1-phenylene)bis[N'-butyl-77703-56-1	1 - <5	01-0000016345-72-xxxx	416-600-4	Aquatic Chronic 4 (H413)	-	-	-	-
Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics RR-100255-7	1 - <2.5	01-2119453414-43-xxxx	920-107-4	Asp. Tox. 1 (H304) (EUH066)	-	-	-	-
N,N-dibenzyliden polyoxypropylene diamine (polymer) 136855-71-5	1 - <2.5	[7]	-	Skin Irrit. 2 (H315)	-	-	-	-
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 - <0.3	01-2119511174-52-xxxx	945-730-9	Aquatic Acute 1 (H400) Aquatic Chronic 3 (H412)	-	-	-	-
Triphenyl phosphate 115-86-6	0.1 - <0.3	01-2119457432-41-XXXX	204-112-2	Aquatic Acute 1 (H400) Aquatic Chronic 2 (H411)	-	1	1	-
Reaction mass of Bis(1,2,2,6,6-pentam	0.05 - <0.1	01-2119491304-40-XXXX	915-687-0	Skin Sens. 1A (H317)	-	1	1	-

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ethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate 1065336-91-5				Repr. 2 (H361f) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)				
4,4-Methylenediphenyl diisocyanate 101-68-8	0.01 < 0.036	01-2119457014-47-XXXX	202-966-0 (615-005-00-9)	Acute Tox. 4 (H332) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Resp. Sens. 1 (H334) Skin Sens. 1 (H317) Carc. 2 (H351) STOT SE 3 (H335) STOT RE 2 (H373)	STOT SE 3 :: C>=5% Skin Irrit. 2 :: C>=5% Eye Irrit. 2 :: C>=5% Resp. Sens. 1 :: C>=0.1%	-	-	C,2
m-tolylidene diisocyanate 26471-62-5	0.01 < 0.036	01-2119454791-34-XXXX	247-722-4 (615-006-00-4)	Acute Tox. 1 (H330) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Resp. Sens. 1 (H334) Skin Sens. 1 (H317) Carc. 2 (H351) STOT SE 3 (H335) Aquatic Chronic 3 (H412)	Resp. Sens. 1 :: C>=0.1%	-	-	C

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

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

Note C - Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

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.

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

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. (Index No.)	CAS No.	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapour - mg/L	Inhalation LC50 - 4 hour - gas - ppm
Urea, N,N'-(methylenedi-4,1-phenylene)bis[N'-butyl-	416-600-4	77703-56-1	-	-	-	-	-
Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics	920-107-4	RR-100255-7	-	-	-	-	-
Reaction mass of 3-methylphenyl diphenyl phosphate, 4-methylphenyl	945-730-9	--	-	-	-	-	-

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Chemical name	EC No. (Index No.)	CAS No.	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapour - mg/L	Inhalation LC50 - 4 hour - gas - ppm
diphenyl phosphate, bis(3-methylphenyl) phenyl phosphate, 3-methylphenyl 4-methylphenyl phenyl phosphate and triphenyl phosphate							
Triphenyl phosphate	204-112-2	115-86-6	-	-	-	-	-
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	-	-	-	-	-
4,4-Methylenediphenyl diisocyanate	202-966-0 (615-005-00-9)	101-68-8	-	-	1.5	-	-
m-tolidene diisocyanate	247-722-4 (615-006-00-4)	26471-62-5	-	-	-	0.107	-

This product contains one or more candidate substance(s) of very high concern (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Chemical name	CAS No.	SVHC candidates
Triphenyl phosphate	115-86-6	x

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.
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SECTION 5: Firefighting measures

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5.1. Extinguishing media

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 monoxide. Carbon dioxide (CO₂). Nitrogen oxides (NO_x). Hydrogen cyanide. Isocyanates. Hydrochloric Acid.

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 protective 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 Residues which cannot be recycled are disposed of as chemical waste. Equipment cleaned with organic solvent, washings are collected and disposed of as solvent waste.

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 Protect from moisture.

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

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7.3. Specific end use(s)

Specific use(s)
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 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 1317-65-3	-	TWA: 10 mg/m ³ ; inhalable dust TWA: 4 mg/m ³ ; respirable dust STEL: 30 mg/m ³ ; inhalable dust STEL: 12 mg/m ³ ; respirable dust
Polyvinyl chloride 9002-86-2	-	TWA: 10 mg/m ³ ; inhalable dust TWA: 4 mg/m ³ ; respirable dust STEL: 30 mg/m ³ ; inhalable dust STEL: 12 mg/m ³ ; respirable dust
Carbon black 1333-86-4	-	TWA: 3.5 mg/m ³ ; STEL: 7 mg/m ³ ;
Triphenyl phosphate 115-86-6	-	TWA: 3 mg/m ³ ; STEL: 6 mg/m ³ ;
4,4-Methylenediphenyl diisocyanate 101-68-8	TWA: 10 µg NCO / m ³ (2.9 ppb) STEL: 20 µg NCO / m ³ (5.8 ppb) Sk* +	TWA: 0.02 mg/m ³ ; STEL: 0.07 mg/m ³ ; poS
m-tolyldiene diisocyanate 26471-62-5	TWA: 10 µg NCO / m ³ (2.9 ppb) STEL: 20 µg NCO / m ³ (5.8 ppb) Sk* +	TWA: 0.02 mg/m ³ ; STEL: 0.07 mg/m ³ ; poS

Chemical name	European Union	Ireland	United Kingdom
4,4-Methylenediphenyl diisocyanate 101-68-8	-	1 µmol/mol Creatinine (urine - urinary Diamine post task)	-
m-tolyldiene diisocyanate 26471-62-5	-	1 µmol/mol Creatinine (urine - urinary Diamine post task)	-

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)			
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	Inhalation	3.5 mg/m ³	

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Systemic health effects worker Short term	Inhalation	28 mg/m ³	
Systemic health effects worker Long term	Dermal	0.5 mg/kg bw/d	
Systemic health effects worker Short term	Dermal	4 mg/kg bw/d	

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/m ³	
worker Systemic health effects Long term	Dermal	1.8 mg/kg	

4,4-Methylenediphenyl diisocyanate (101-68-8)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Short term Systemic health effects	Dermal	50 mg/kg bw/d	
worker Short term Systemic health effects	Inhalation	0.1 mg/m ³	
worker Short term Local health effects	Dermal	28700 µg/cm ²	
worker Short term Local health effects	Inhalation	0.1 mg/m ³	
worker Long term Systemic health effects	Inhalation	0.05 mg/m ³	
worker Long term Local health effects	Inhalation	0.05 mg/m ³	

m-tolylidene diisocyanate (26471-62-5)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Long term Systemic health effects	Inhalation	0.035 mg/m ³	
worker Short term Systemic health effects	Inhalation	0.14 mg/m ³	
worker Long term Local health effects	Inhalation	0.035 mg/m ³	
worker Short term Local health effects	Inhalation	0.14 mg/m ³	

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Derived No Effect Level (DNEL)			
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/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	

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
Consumer Long term Systemic health effects	Inhalation	0.31 mg/m ³	
Consumer Long term Systemic health effects	Dermal	0.9 mg/kg	
Consumer Long term Systemic health effects	Oral	0.18 mg/kg	

4,4-Methylenediphenyl diisocyanate (101-68-8)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer Short term Systemic health effects	Dermal	25 mg/kg bw/d	
Consumer Short term	Inhalation	0.05 mg/m ³	

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Systemic health effects			
Consumer	Oral	20 mg/kg bw/d	
Short term			
Systemic health effects			
Consumer	Dermal	17200 µg/cm ²	
Short term			
Local health effects			
Consumer	Inhalation	0.05 mg/m ³	
Short term			
Local health effects			
Consumer	Inhalation	0.025 mg/m ³	
Long term			
Systemic health effects			
Consumer	Inhalation	0.025 mg/m ³	
Long term			
Local health effects			

Predicted No Effect Concentration No information available.
(PNEC)

Predicted No Effect Concentration (PNEC)	
Urea, N,N"-(methylenedi-4,1-phenylene)bis[N'-butyl- (77703-56-1)	
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

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

4,4-Methylenediphenyl diisocyanate (101-68-8)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	1 mg/l
Marine water	0.1 mg/l
Soil	1 mg/kg dry weight
Sewage treatment plant	1 mg/l

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Freshwater - intermittent	10 mg/l
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m-tolyldiene diisocyanate (26471-62-5)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.013 mg/l
Marine water	0.00125 mg/l
Microorganisms in sewage treatment	>1 mg/l
Soil	>1 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 Black
Odour Characteristic.

<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	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Flash point	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature		None known
pH	No data available	Not applicable.
pH (as aqueous solution)	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	approx. 11000 Pa.s @ 0.1 s ⁻¹	@ 23 °C
Water solubility	Insoluble in water.	Reacts with 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	
Liquid Density	1.29 g/cm ³	
Relative vapour density	No data available	None known
Particle characteristics		

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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 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 Product cures with moisture. Protect from moisture.

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.

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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 ATE values have been calculated for the mixture

ATEmix (oral) >2000 mg/kg
ATEmix (dermal) >2000 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, N,N'-(methylenedi-4,1-phenylene)bis[N'-butyl-	>2000 mg/Kg (Rattus) (OECD 401)	>2000 mg/Kg (Rattus) (OECD 402)	-
Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics	LD50 >5000 mg/Kg (Rattus) (OECD 401)	LD50 >5000 mg/Kg (Oryctolagus cuniculus) (OECD 402)	LC50 >5000 mg/m ³ (OECD 403)
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)	-
Triphenyl phosphate	=3500 mg/kg (Rattus)	> 10000 mg/kg (Oryctolagus cuniculus)	>200000 mg/m ³ (Rattus) 1 h
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-pi peridyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperi dyl sebacate	LD50 = 3230 mg/Kg (Rattus) (OECD 401)	LD50 >3170 mg/Kg (Rattus) (OECD 402)	-
4,4-Methylenediphenyl diisocyanate	=31600 mg/kg (Rattus) = 9200 mg/kg (Rattus)	LD 50 > 9400 mg/kg (Oryctolagus cuniculus) OECD 402	1.5 mg/L (Rattus) 4 h
m-tolyldiene diisocyanate	=3060 mg/kg (Rattus)	= 10000 mg/kg (Oryctolagus cuniculus)	=0.107 mg/L 4h (Vapour)(Rattus) (OECD 403) =0.48 mg/L 1h (Vapour)(Rattus) (OECD 403)

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.

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POLYURETHANE BLACK
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4,4-Methylenediphenyl diisocyanate (101-68-8)					
Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 405: Acute Eye Irritation/Corrosion	Rabbit	Eye	0.1 mL	24 hours	Non-irritant

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.

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

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component Information		
4,4-Methylenediphenyl diisocyanate (101-68-8)		
Method	Species	Results
OECD Test No. 453: Combined Chronic Toxicity/Carcinogenicity Studies	Rat	Limited evidence of a carcinogenic effect

Chemical name	European Union
4,4-Methylenediphenyl diisocyanate	Carc. 2
m-tolyldiene diisocyanate	Carc. 2

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

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties This mixture contains a substance that has endocrine disrupting properties with respect to humans.

Chemical name	Endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100(3) or Commission Regulation (EU) 2018/605(4)
Triphenyl phosphate	health effects

11.2.2. Other information

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Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

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

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)		
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)		
Triphenyl phosphate 115-86-6	EC50: 0.6 - 4mg/L (96h, Pseudokirchneriella subcapitata)	LC50: 0.28 - 0.5mg/L (96h, Oncorhynchus mykiss) LC50: 0.47 - 1.04mg/L (96h, Lepomis macrochirus) LC50: 0.53 - 0.8mg/L (96h, Pimephales promelas) LC50: 0.81 - 0.94mg/L (96h, Pimephales promelas) LC50: =1.2mg/L (96h, Oryzias latipes)	-	EC50: 0.86 - 1.2mg/L (48h, Daphnia magna)	1	1
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 (72h): 1.68 mg/l (Desmodesmus subspicatus) OECD 201	LC50 (96h): 0.9 mg/L (Brachydanio rerio) OECD 203	EC20 (3h)>= 100 mg/l OECD 209	-	1	1
4,4-Methylenediphenyl diisocyanate 101-68-8	ErC50 (72h) >1640 mg/L Algae (scenedesmus subspicatus) (OECD 201)	>1000 mg/l Danio rerio	-	EC50 (24H) >1000 mg/L Daphnia magna		

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

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Biodegradability: CO2 Evolution Test (TG 301 B)			
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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

4,4-Methylenediphenyl diisocyanate (101-68-8)

Method	Exposure time	Value	Results
OECD Test No. 302C: Inherent Biodegradability: Modified MITI Test (II)	28 days	0% biodegradation	Not readily biodegradable

12.3. Bioaccumulative potential

Bioaccumulation

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-methylphenyl diphenyl phosphate, bis(3-methylphenyl) phenyl phosphate, 3-methylphenyl 4-methylphenyl phenyl phosphate and triphenyl phosphate	4.5
Triphenyl phosphate	4.63
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
4,4-Methylenediphenyl diisocyanate	4.51
m-tolyldiene diisocyanate	3.43

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment Based on available data, the classification criteria are not met.

Chemical name	PBT and vPvB assessment
Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics	Not PBT/vPvB
Triphenyl phosphate	Not PBT/vPvB
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	Not PBT/vPvB
4,4-Methylenediphenyl diisocyanate	Not PBT/vPvB
m-tolyldiene diisocyanate	Not PBT/vPvB

12.6. Endocrine disrupting properties Endocrine disrupting properties

Endocrine disruption for the environment This mixture contains a substance that has endocrine disrupting properties with respect to non-target organisms.

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Chemical name	Endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100(3) or Commission Regulation (EU) 2018/605(4)
Triphenyl phosphate	Environmental effects

12.7. Other adverse effects Other adverse effects

Other adverse effects No information available.
PMT or vPvM properties Based on available data, the classification criteria are not met.

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 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 precautions for user
Special Provisions None

IMDG

14.1 UN number or ID number Not regulated
14.2 UN 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 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 Not regulated
14.2 UN 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 precautions for user

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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 contains one or more candidate substance(s) of very high concern (Regulation (EC) No. 1907/2006 (REACH), Article 59) $\geq 0.1\%$

Chemical name	CAS No.
Triphenyl phosphate	115-86-6

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
Synthetic polymer microparticles (SPM)	--	78

78. This product contains one or more synthetic polymer microparticles as defined by entry 78 of Annex XVII to Regulation (EC) No. 1907/2006. According to Restriction conditions, this product may benefit from the derogation according to Paragraph 4(a) or 5 of the Restriction and therefore can be placed on the market.

Polymer % SPM:
Polymers of vinyl chloride 9

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) 2024/590

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

Regulations on drug precursors (EC) No 111/2005 (export) and 273/2004 (internal trade)

This product does not contain any substance(s) which are regulated pursuant to the EU regulations on drug precursors [(EC)

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No. 111/2005 and (EC) No. 273/2004] above levels that can be easily used or extracted by readily applicable or economically viable means.

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 any hazard and/or precautionary statements referred to under Sections 2-15

EUH066 - Repeated exposure may cause skin dryness or cracking

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

H332 - Harmful if inhaled

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

H335 - May cause respiratory irritation

H351 - Suspected of causing cancer

H361f - Suspected of damaging fertility

H373 - May cause damage to organs through prolonged or repeated exposure

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 identification, classification and labelling of substances

Note C - Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers

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

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

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Indication of changes

Revision Note Not applicable.
Training Advice No information available
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