



# SAFETY DATA SHEET

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

**BOSTIK HYTEC P510 RENORAPID**  
Supersedes Date: 23-Mar-2023

Revision date 23-Mar-2023  
Revision Number 1.07

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

### 1.1. Product identifier

Product Name BOSTIK HYTEC P510 RENORAPID

Pure substance/mixture Mixture

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

Recommended use Primers, Sealers, and Undercoaters

Uses advised against Consumer use

### 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)

Acute toxicity - Inhalation (Dusts/Mists)	Category 4 - (H332)
Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2 - (H319)
Respiratory sensitisation	Category 1 - (H334)
Skin sensitisation	Category 1 - (H317)
Carcinogenicity	Category 2 - (H351)
Specific target organ toxicity — single exposure	Category 3 - (H335)
Category 3 Respiratory irritation	
Specific target organ toxicity — repeated exposure	Category 2 - (H373)

### 2.2. Label elements

Contains Prepolymer, based on aromatic polyisocyanate, 4,4'-Methylenediphenyl diisocyanate, o-(p-isocyanatobenzyl)phenyl isocyanate, Diphenylmethane-diisocyanate, isomers and homologues

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**Signal word**  
Danger

## Hazard statements

H315 - Causes skin irritation.  
H317 - May cause an allergic skin reaction.  
H319 - Causes serious eye irritation.  
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.  
H373 - May cause damage to organs through prolonged or repeated exposure.

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

P260 - Do not breathe mist/vapours/spray  
P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing  
P302 + P352 - IF ON SKIN: Wash with plenty of water and soap  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P402 + P404 - Store in a dry place. Store in a closed container  
P501 - Dispose of contents/ container to an approved waste disposal plant

## Special provisions concerning the labelling of certain mixtures

Reserved for industrial and professional use. As from 24 August 2023 adequate training is required before industrial or professional use. Persons already sensitised to diisocyanates may develop allergic reactions when using this product. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.

## Additional information

This product requires tactile warnings if supplied to the general public.

## 2.3. Other hazards

No information available.

## 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	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	REACH registration number

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Prepolymer, based on aromatic polyisocyanate	642-899-8	67815-87-6	>25 - <40	Acute Tox. 4 (H332) STOT SE 3 (H335) STOT RE 2 (H373) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Resp. Sens. 1 (H334) Skin Sens. 1 (H317)	-	[7]
4,4'-Methylenediphenyl diisocyanate	(615-005-00-9) (615-035-00-2) 202-966-0	101-68-8	>25 - <40	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%	01-2119457014-47-XXXX
o-(p-isocyanatobenzyl)phenyl isocyanate	(615-005-00-9) 227-534-9	5873-54-1	20 - 25	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)	Eye Irrit. 2 :: C>=5% Resp. Sens. 1 :: C>=0.1% Skin Irrit. 2 :: C>=5% STOT SE 3 :: C>=5%	01-2119480143-45-XXXX
Diphenylmethane-diisocyanate, isomers and homologues	618-498-9	9016-87-9	10 - <20	STOT SE 3 (H335) STOT RE 2 (H373) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Resp. Sens. 1 (H334) Skin Sens. 1 (H317) Carc. 2 (H351) Acute Tox. 4 (H332)	STOT SE 3 :: C>=5% Skin Irrit. 2 :: C>=5% Eye Irrit. 2 :: C>=5% Resp. Sens. 1 :: C>=0.1%	[7]
2,2'-methylenediphenyl diisocyanate	(615-005-00-9) 219-799-4	2536-05-2	1 - <2.5	Acute Tox. 4 (H332) Skin Irrit. 2 (H315)	Eye Irrit. 2 :: C>=5% Resp. Sens. 1 :: C>=0.1% Skin Irrit. 2 :: C>=5%	01-2119927323-43-XXXX

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				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%	
Benzenesulfonyl isocyanate, 4-methyl-	(615-012-00-7) 223-810-8	4083-64-1	0.1 - <0.3	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Resp. Sens. 1 (H334) STOT SE 3 (H335) (EUH014)	STOT SE 3 :: C>=5% Skin Irrit. 2 :: C>=5% Eye Irrit. 2 :: C>=5%	01-2119980050-47-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

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)

## Notes

See section 16 for more information

Chemical name	Notes
4,4'-Methylenediphenyl diisocyanate - 101-68-8	C,2
o-(p-isocyanatobenzyl)phenyl isocyanate - 5873-54-1	C,2
2,2'-methylenediphenyl diisocyanate - 2536-05-2	C,2

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

<b>General advice</b>	If medical advice is needed, have product container or label at hand. Show this safety data sheet to the doctor in attendance.
<b>Inhalation</b>	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Seek immediate medical attention/advice.
<b>Eye contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Consult an ophthalmologist.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water. In the case of skin irritation or allergic reactions see a doctor.
<b>Ingestion</b>	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Call a doctor or poison control centre immediately.
<b>Self-protection of the first aider</b>	Avoid breathing vapours or mists. Avoid contact with skin, eyes or clothing. Use personal

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protective equipment as required.

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

**Symptoms** May cause allergy or asthma symptoms or breathing difficulties if inhaled. Coughing and/or wheezing. Rashes. Hives.

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

**Note to doctors** May cause sensitisation in susceptible persons. Symptoms may be delayed. Delayed pulmonary edema may occur. Keep victim under observation. Treat symptomatically.

## **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

**Suitable Extinguishing Media** Water spray, carbon dioxide (CO<sub>2</sub>), dry chemical, alcohol-resistant foam.

**Unsuitable extinguishing media** Full water jet.

### 5.2. Special hazards arising from the substance or mixture

**Specific hazards arising from the chemical** Thermal decomposition can lead to release of irritating and toxic gases and vapours.

**Hazardous combustion products** Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Nitrogen oxides (NO<sub>x</sub>). Hydrogen cyanide. Isocyanates.

### 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** Do not breathe vapour or mist. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

**Other information** Refer to protective measures listed in Sections 7 and 8.

**For emergency responders** Use personal protection recommended in Section 8.

### 6.2. Environmental precautions

**Environmental precautions** Prevent product from entering drains. Do not allow to enter into soil/subsoil.

### 6.3. Methods and material for containment and cleaning up

**Methods for containment** Dyke for later disposal and cover with wet sand or earth. Transport to well ventilated area and treat with neutralizing solution: mixture of 80% water and 20% non-ionic surfactant Tergitol TMN-10; or 90% water, 3-8% concentrated ammonia and 2% detergent. Do NOT close container (evolution of carbon dioxide - CO<sub>2</sub>). Keep wet and put outdoors in a secured place for a few days. Then dispose to of according to local / national regulations (see Section 13).

**Methods for cleaning up** Pick up and transfer to properly labelled containers.

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

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## 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** Do not breathe vapour or mist. Use with local exhaust ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Use personal protection equipment. Avoid contact with skin, eyes or clothing.

**General hygiene considerations** Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Take off all contaminated clothing and wash it before reuse.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage Conditions** Protect from moisture. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from water or moist air. Keep away from food, drink and animal feedingstuffs.

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

### 7.3. Specific end use(s)

**Specific use(s)**  
Restricted to professional users. Primers, Sealers, and Undercoaters.

**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

Chemical name	European Union	United Kingdom
4,4'-Methylenediphenyl diisocyanate 101-68-8	-	TWA: 0.02 mg/m <sup>3</sup> STEL: 0.07 mg/m <sup>3</sup> Sen+
o-(p-isocyanatobenzyl)phenyl isocyanate 5873-54-1	-	TWA: 0.02 mg/m <sup>3</sup> STEL: 0.07 mg/m <sup>3</sup> Sen+
Diphenylmethane-diisocyanate, isomers and homologues 9016-87-9	-	TWA: 0.02 mg/m <sup>3</sup> STEL: 0.07 mg/m <sup>3</sup> SEN; as -NCO
2,2'-methylenediphenyl diisocyanate 2536-05-2	-	TWA: 0.02 mg/m <sup>3</sup> STEL: 0.07 mg/m <sup>3</sup> Sen+
Benzenesulfonyl isocyanate, 4-methyl- 4083-64-1	-	TWA: 0.02 mg/m <sup>3</sup> STEL: 0.07 mg/m <sup>3</sup> Sen+

Chemical name	European Union	Ireland	United Kingdom
4,4'-Methylenediphenyl diisocyanate 101-68-8	-	1 µmol/mol Creatinine (urine - urinary Diamine post task)	-
o-(p-isocyanatobenzyl)phenyl isocyanate	-	1 µmol/mol Creatinine (urine - urinary Diamine post task)	-

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5873-54-1			
2,2'-methylenediphenyl diisocyanate 2536-05-2	-	1 µmol/mol Creatinine (urine - urinary Diamine post task)	-
Benzenesulfonyl isocyanate, 4-methyl- 4083-64-1	-	1 µmol/mol Creatinine (urine - urinary Diamine post task)	-

**Derived No Effect Level (DNEL)** No information available

<b>Derived No Effect Level (DNEL)</b>			
<b>4,4'-Methylenediphenyl diisocyanate (101-68-8)</b>			
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 <sup>3</sup>	
worker Short term Local health effects	Dermal	28700 µg/cm <sup>2</sup>	
worker Short term Local health effects	Inhalation	0.1 mg/m <sup>3</sup>	
worker Long term Systemic health effects	Inhalation	0.05 mg/m <sup>3</sup>	
worker Long term Local health effects	Inhalation	0.05 mg/m <sup>3</sup>	

<b>o-(p-isocyanatobenzyl)phenyl isocyanate (5873-54-1)</b>			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Long term Local health effects	Inhalation	0.05 mg/m <sup>3</sup>	
worker Short term Local health effects	Inhalation	0.1 mg/m <sup>3</sup>	

<b>Derived No Effect Level (DNEL)</b>			
<b>4,4'-Methylenediphenyl diisocyanate (101-68-8)</b>			
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 Systemic health effects	Inhalation	0.05 mg/m <sup>3</sup>	
Consumer Short term Systemic health effects	Oral	20 mg/kg bw/d	
Consumer Short term Local health effects	Dermal	17200 µg/cm <sup>2</sup>	
Consumer	Inhalation	0.05 mg/m <sup>3</sup>	

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Short term Local health effects			
Consumer Long term Systemic health effects	Inhalation	0.025 mg/m <sup>3</sup>	
Consumer Long term Local health effects	Inhalation	0.025 mg/m <sup>3</sup>	

**Predicted No Effect Concentration (PNEC)** No information available.  
(PNEC)

<b>Predicted No Effect Concentration (PNEC)</b>	
<b>4,4'-Methylenediphenyl diisocyanate (101-68-8)</b>	
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
Freshwater - intermittent	10 mg/l

<b>o-(p-isocyanatobenzyl)phenyl isocyanate (5873-54-1)</b>	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	1 mg/l
Marine water	0.1 mg/l
Sewage treatment plant	1 mg/l
Soil	1 mg/kg dry weight
Freshwater - intermittent	10 mg/l

<b>2,2'-methylenediphenyl diisocyanate (2536-05-2)</b>	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	1 mg/l
Marine water	0.1 mg/l
Sewage treatment plant	1 mg/l
Soil	1 mg/kg dry weight
Freshwater - intermittent	10 mg/l

## 8.2. Exposure controls

### Engineering controls

Ensure adequate ventilation, especially in confined areas. Vapours/aerosols must be exhausted directly at the point of origin.

### Personal protective equipment

#### Eye/face protection

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

#### Hand protection

Wear suitable gloves. Recommended Use: Nitrile rubber. Butyl rubber. Neoprene™. Glove thickness > 0.7mm. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. The breakthrough time for the mentioned glove material is in general greater than 60 min. Gloves should be replaced regularly and if there is any sign of damage to the glove material. Gloves must conform to standard EN 374

#### Skin and body protection

Wear suitable protective clothing.

#### Respiratory protection

In case of inadequate ventilation wear respiratory protection. During spraying wear suitable respiratory equipment. Wear a respirator conforming to EN 140 with Type A/P2 filter or better.

#### Recommended filter type:

Organic gases and vapours filter conforming to EN 14387. Brown. White.

**Environmental exposure controls** Do not allow uncontrolled discharge of product into the environment.

## SECTION 9: Physical and chemical properties



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## 9.1. Information on basic physical and chemical properties

Physical state Liquid  
Colour Yellow to Brown  
Odour Earthy. Musty.

<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	> 200 °C	CC (closed cup)
Autoignition temperature	No data available	None known
Decomposition temperature		None known
pH	No data available	Reacts with water.
pH (as aqueous solution)	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	
Water solubility	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	1.2	
Bulk Density	No data available	
Density	1.2 g/cm <sup>3</sup>	
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 Product cures with moisture.

### 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

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**Possibility of hazardous reactions** None under normal processing.

**Hazardous polymerisation** Polymerisation can occur.

## 10.4. Conditions to avoid

**Conditions to avoid** Product cures with moisture. Excessive heat. Protect from moisture.

## 10.5. Incompatible materials

**Incompatible materials** Strong acids. Strong bases. Strong oxidising agents.

## 10.6. Hazardous decomposition products

**Hazardous decomposition products** None under normal use 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

<b>Inhalation</b>	Harmful by inhalation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
<b>Eye contact</b>	Causes serious eye irritation.
<b>Skin contact</b>	Causes skin irritation. May cause sensitisation by skin contact.
<b>Ingestion</b>	Based on available data, the classification criteria are not met.

#### Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing. Coughing and/ or wheezing. Itching. Rashes.

#### Acute toxicity

#### Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document mg/kg ppm  
ATEmix (inhalation-dust/mist) 1.51 mg/l

#### Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Prepolymer, based on aromatic polyisocyanate	LD 50 > 2000 mg/kg (Rattus) Richtlinie 84/449/EWG, B.1	LD 50 > 9400 mg/kg (Oryctolagus cuniculus) 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
o-(p-isocyanatobenzyl)phenyl isocyanate	LD50 >2000 mg/Kg (Rattus)	LD 50 > 9400 mg/kg (Oryctolagus cuniculus) OECD 402	1.5 mg/L (4h) Rat

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Diphenylmethane-diisocyanate, isomers and homologues	LD50 > 10000 mg/kg (Rattus)	LD 50 > 9400 mg/kg (Oryctolagus cuniculus)	1.5 mg/L (Rattus) 4 h
2,2'-methylenediphenyl diisocyanate	LD50 > 2000 mg/kg (Rattus)	LD 50 > 9400 mg/kg (Oryctolagus cuniculus) OECD 402	1.5 mg/L (4h) Rat
Benzenesulfonyl isocyanate, 4-methyl-	=2234 mg/kg (Rattus)	LD 50 (Rattus) > 2000 mg/kg OECD 402	>640 ppm (Rattus) 1 h

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

**Skin corrosion/irritation** Causes skin irritation.

o-(p-isocyanatobenzyl)phenyl isocyanate (5873-54-1)

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

Diphenylmethane-diisocyanate, isomers and homologues (9016-87-9)

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

**Serious eye damage/eye irritation** Causes serious eye irritation.

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** May cause sensitisation by skin contact. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Prepolymer, based on aromatic polyisocyanate (67815-87-6)

Method	Species	Exposure route	Results
OECD Test No. 429: Skin Sensitisation: Local Lymph Node Assay	Mouse		sensitising

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

Method	Species	Exposure route	Results
OECD GD 39	Rat	Inhalation	Sensitizing

Diphenylmethane-diisocyanate, isomers and homologues (9016-87-9)

Method	Species	Exposure route	Results
OECD Test No. 429: Skin Sensitisation: Local Lymph Node Assay	Mouse		sensitising

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

**Carcinogenicity** Suspected of causing cancer.

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

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## 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

o-(p-isocyanatobenzyl)phenyl isocyanate (5873-54-1)

Method	Species	Results
OECD Test No. 453: Combined Chronic Toxicity/Carcinogenicity Studies	Rat	Carcinogenic

Diphenylmethane-diisocyanate, isomers and homologues (9016-87-9)

Method	Species	Results
OECD Test No. 453: Combined Chronic Toxicity/Carcinogenicity Studies	Rat	Carcinogenic

Chemical name	European Union
4,4'-Methylenediphenyl diisocyanate	Carc. 2
o-(p-isocyanatobenzyl)phenyl isocyanate	Carc. 2
2,2'-methylenediphenyl diisocyanate	Carc. 2

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

**STOT - single exposure** May cause respiratory irritation.

**STOT - repeated exposure** May cause damage to organs through prolonged or repeated exposure.

**Aspiration hazard** Based on available data, the classification criteria are not met.

## 11.2. Information on other hazards

### 11.2.1. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

### 11.2.2. Other information

**Other adverse effects** No information available.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea	M-Factor	M-Factor (long-term)
Prepolymer, based on aromatic polyisocyanate 67815-87-6	ErC50 (72h) > 1.640 mg/l Scenedesmus subspicatus (OECD 201)	LC50 (96h) > 1.000 mg/l Danio rerio (OECD 203)	-	EC50 (24h) > 1.000 mg/l Daphnia magna (OECD 202)		
4,4'-Methylenediphenyl	ErC50 (72h)	>1000 mg/l	-	EC50 (24H)		

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diisocyanate 101-68-8	>1640 mg/L Algae (scenedesmus subspicatus) (OECD 201)	Danio rerio		>1000 mg/L Daphnia magna		
o-(p-isocyanatobenzyl) phenyl isocyanate 5873-54-1	ErC50 (72h) >1640 mg/L Algae (scenedesmus subspicatus) (OECD 201)	LC50 (96 h) > 1000 mg/l Danio rerio (OECD 203)	-	EC50 (24H) >1000 mg/L Daphnia magna		
Diphenylmethane-diiso cyanate, isomers and homologues 9016-87-9	ErC50 (72h) >1640 mg/L Algae (scenedesmus subspicatus) (OECD 201)	CL50 (96h) >1000 mg/L Danio rerio	-	EC50 (24H) >1000 mg/L Daphnia magna		
2,2'-methylenediphenyl diisocyanate 2536-05-2	-	LC50 (96 h) > 1000 mg/l Danio rerio (OECD 203)	-	-		

## 12.2. Persistence and degradability

**Persistence and degradability** No information available.

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

Diphenylmethane-diisocyanate, isomers and homologues (9016-87-9)

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
4,4'-Methylenediphenyl diisocyanate	4.51
Benzenesulfonyl isocyanate, 4-methyl-	0.6

## 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
4,4'-Methylenediphenyl diisocyanate	The substance is not PBT / vPvB
o-(p-isocyanatobenzyl)phenyl isocyanate	The substance is not PBT / vPvB
2,2'-methylenediphenyl diisocyanate	The substance is not PBT / vPvB
Benzenesulfonyl isocyanate, 4-methyl-	The substance is not PBT / vPvB

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## 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

<b>Waste from residues/unused products</b>	Uncured product should be disposed of as hazardous waste. Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable.
<b>Contaminated packaging</b>	Handle contaminated packages in the same way as the product itself.
<b>European Waste Catalogue</b>	08 04 09* waste adhesives and sealants containing organic solvents or other dangerous substances 08 05 01* waste isocyanates 15 01 10*: Packaging containing residues of or contaminated by dangerous substances
<b>Other information</b>	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	
Special Provisions	None

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## Section 15: REGULATORY INFORMATION

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

#### European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Check whether measures in accordance with Directive 94/33/EC for the protection of young people at work must be taken.

Take note of Directive 92/85/EC on the protection of pregnant and breastfeeding women at work

#### 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
4,4'-Methylenediphenyl diisocyanate	101-68-8	56[a]. 75. 74.
o-(p-isocyanatobenzyl)phenyl isocyanate	5873-54-1	56[b]. 75. 74.
Diphenylmethane-diisocyanate, isomers and homologues	9016-87-9	56 74.
2,2'-methylenediphenyl diisocyanate	2536-05-2	56[c]. 75. 74.
Diisocyanates	--	74

**56** . If product supplied to the general public with substance  $\geq 0.1\%$ , then gloves must be provided with the product. **74** If product supplied to the industrial or professional users with total monomeric diisocyanates  $\geq 0.1\%$ , then its packaging must mention "As from 24 August 2023 adequate training is required before industrial or professional use".

#### 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

#### Persistent Organic Pollutants

Not applicable

#### National regulations

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## 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

EUH014 - Reacts violently with water

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

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

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

#### **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
*	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** 23-Mar-2023

#### **Indication of changes**

**Revision note** SDS sections updated: 2, 3, 9, 11, 15.

**Training Advice** When working with hazardous materials, regular training of operators is required by law 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 material safety data sheet complies with 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



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**End of Safety Data Sheet**