



# SAFETY DATA SHEET

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

**BOSTIK HYTEC P510 RENORAPID**  
Supersedes date 14-Apr-2025

Revision date 19-Jan-2026  
Revision Number 1.09

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

### 1.1. Product identifier

**Product Name** BOSTIK HYTEC P510 RENORAPID  
**Form** This substance/ mixture contains nanoforms

### Other means of identification

**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** Professional cleaning activities with Aprotic Polar Solvents are not supported Coatings (aprotic) Consumer applications that require heating above room temperature before or during use are not supported

**Reason why uses advised against** Use advised against in Chemical Safety Assessment per REACH Annex I point 7 2.3

### 1.3. Details of the supplier of the safety data sheet

#### Company Name

Bostik GmbH  
Industriestrasse 3 – 11  
33829 Borgholzhausen, Germany  
Tel: +49 (0) 5425 / 801 0  
Fax: +49 (0) 5425 / 801 140

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

### 1.4. Emergency telephone number

**Ireland** **NPIC - National Poison Information Centre**  
Members of the Public: +353 (01) 8092166 (8.00 am to 10.00 pm - 7 days a week)  
Healthcare Professionals: +353 (01) 8092566 (24 hour service)  
**United Kingdom** Bostik: +44 (1785) 272650 (9am to 5pm Mon-Fri)  
**Europe** 112

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

*Classification according to Regulation (EC) No. 1272/2008 [CLP]*

<b>Acute toxicity - Inhalation (Dusts/Mists)</b>	Category 4 - (H332)
<b>Skin irritation</b>	Category 2 - (H315)
<b>Eye irritation</b>	Category 2 - (H319)
<b>Respiratory sensitisation</b>	Category 1 - (H334)
<b>Skin sensitisation</b>	Category 1 - (H317)
<b>Carcinogenicity</b>	Category 2 - (H351)
<b>Specific target organ toxicity (single exposure)</b>	Category 3 - (H335)
Category 3 Target organ effects: Respiratory irritation.	
<b>Specific target organ toxicity (repeated exposure)</b>	Category 2 - (H373)

# SAFETY DATA SHEET

**BOSTIK HYTEC P510 RENORAPID**  
Supersedes date 14-Apr-2025

Revision date 19-Jan-2026  
Revision Number 1.09

## 2.2. Label elements

Contains Prepolymer, based on aromatic polyisocyanate; 4,4-Methylenediphenyl diisocyanate; o-(p-isocyanatobenzyl)phenyl isocyanate; Diphenylmethane-diisocyanate, isomers and homologues; 2,2'-methylenediphenyl diisocyanate; 4-isocyanatosulphonyltoluene tosyl isocyanate



**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 and face protection  
P302 + P352 - IF ON SKIN: Wash with plenty of water and soap  
P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing  
P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P337 + P317 - If eye irritation persists: Get medical help  
P501 - Dispose of contents/ container to an approved waste disposal plant

### **Special provisions concerning the labelling of certain mixtures**

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**

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

### **Endocrine Disruptor Information**

This product does not contain any known or suspected endocrine disruptors.

## **SECTION 3: Composition/information on ingredients**

### 3.1 Substances

# SAFETY DATA SHEET

**BOSTIK HYTEC P510 RENORAPID**  
**Supercedes date** 14-Apr-2025

**Revision date** 19-Jan-2026  
**Revision Number** 1.09

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
Prepolymer, based on aromatic polyisocyanate 67815-87-6	>25 - <40	[7]	642-899-8	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)	-	-	-	-
4,4-Methylenediphenyl diisocyanate 101-68-8	>25 - <40	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
o-(p-isocyanatobenzyl)phenyl isocyanate 5873-54-1	20 - <25	01-2119480143-45-XXXX	227-534-9 (615-005-00-9)	Skin Irrit. 2 (H315) Skin Sens. 1 (H317) Eye Irrit. 2 (H319) Acute Tox. 4 (H332) Resp. Sens. 1 (H334) STOT SE 3 (H335) Carc. 2 (H351) 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%	-	-	C,2
Diphenylmethane-diisocyanate, isomers and homologues 9016-87-9	10 - <20	[7]	618-498-9	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%	-	-	-
2,2'-methylene-diphenyl diisocyanate 2536-05-2	1 - <2.5	01-2119927323-43-XXXX	219-799-4 (615-005-00-9)	Skin Irrit. 2 (H315) Skin Sens. 1 (H317) Eye Irrit. 2 (H319) Acute Tox. 4 (H332) Resp. Sens. 1 (H334) STOT SE 3 (H335) Carc. 2 (H351) 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%	-	-	C,2
4-isocyanatosulphonyltoluene tosyl isocyanate 4083-64-1	0.1 - <0.3	01-2119980050-47-XXXX	223-810-8 (615-012-00-7)	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Resp. Sens. 1 (H334)	STOT SE 3 :: C>=5% Skin Irrit. 2 :: C>=5%	-	-	-

# SAFETY DATA SHEET

**BOSTIK HYTEC P510 RENORAPID**  
Supersedes date 14-Apr-2025

Revision date 19-Jan-2026  
Revision Number 1.09

				STOT SE 3 (H335) (EUH014)	Eye Irrit. 2 :: C>=5%			
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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
Prepolymer, based on aromatic polyisocyanate	642-899-8	67815-87-6	-	-	1.5	-	-
4,4-Methylenediphenyl diisocyanate	202-966-0 (615-005-00-9)	101-68-8	-	-	1.5	-	-
o-(p-isocyanatobenzyl) phenyl isocyanate	227-534-9 (615-005-00-9)	5873-54-1	-	-	1.5	-	-
Diphenylmethane-diisocyanate, isomers and homologues	618-498-9	9016-87-9	-	-	1.5	-	-
2,2'-methylenediphenyl diisocyanate	219-799-4 (615-005-00-9)	2536-05-2	-	-	1.5	-	-
4-isocyanatosulphonyltoluene tosyl isocyanate	223-810-8 (615-012-00-7)	4083-64-1	-	-	-	-	-

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

<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. Call a doctor or poison control centre immediately.
<b>Eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Consult an ophthalmologist. Get medical attention if irritation develops and persists.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water for at least 15 minutes. In the case of skin irritation or allergic reactions see a doctor.

# SAFETY DATA SHEET

BOSTIK HYTEC P510 RENORAPID  
Supercedes date 14-Apr-2025

Revision date 19-Jan-2026  
Revision Number 1.09

<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>	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Use personal protective equipment as required. See section 8 for more information. Avoid breathing vapours or mists.

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

<b>Symptoms</b>	May cause allergy or asthma symptoms or breathing difficulties if inhaled. Coughing and/or wheezing. Itching. Rashes. Hives. 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. Erythema (skin redness). May cause redness and tearing of the eyes. Burning sensation. Difficulty in breathing.
<b>Effects of Exposure</b>	May cause damage to organs through prolonged or repeated exposure. Suspected of causing cancer.

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

<b>Note to doctors</b>	Symptoms may be delayed. Delayed pulmonary edema may occur. Keep victim under observation. Treat symptomatically.
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## **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

<b>Suitable Extinguishing Media</b>	Water spray, carbon dioxide (CO <sub>2</sub> ), dry chemical, alcohol-resistant foam.
<b>Unsuitable extinguishing media</b>	Full water jet.

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

<b>Specific hazards arising from the chemical</b>	Thermal decomposition can lead to release of irritating gases and vapours.
<b>Hazardous combustion products</b>	Carbon oxides. Carbon monoxide. Carbon dioxide (CO <sub>2</sub> ). Nitrogen oxides (NO <sub>x</sub> ). Hydrogen cyanide. Isocyanates.

### 5.3. Advice for firefighters

<b>Special protective equipment and precautions for fire-fighters</b>	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protective equipment.
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## **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

<b>Personal precautions</b>	Avoid breathing vapours or mists. Ensure adequate ventilation. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.
<b>Other information</b>	Refer to protective measures listed in Sections 7 and 8.
<b>For emergency responders</b>	Use personal protection recommended in Section 8.

### 6.2. Environmental precautions

<b>Environmental precautions</b>	Prevent product from entering drains. Do not allow to enter into soil/subsoil. Prevent further leakage or spillage if safe to do so.
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# SAFETY DATA SHEET

BOSTIK HYTEC P510 RENORAPID  
Supersedes date 14-Apr-2025

Revision date 19-Jan-2026  
Revision Number 1.09

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

<b>Methods for containment</b>	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).
<b>Methods for cleaning up</b>	Soak up with inert absorbent material. Pick up and transfer to properly labelled containers.
<b>Prevention of secondary hazards</b>	Clean contaminated objects and areas thoroughly observing environmental regulations.

## 6.4. Reference to other sections

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

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

<b>Advice on safe handling</b>	Avoid breathing vapours or mists. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Use personal protective equipment. Avoid contact with skin, eyes or clothing.
<b>General hygiene considerations</b>	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

<b>Storage Conditions</b>	Protect from moisture. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from food, drink and animal feedingstuffs.
<b>Recommended storage temperature</b>	Keep at temperatures between 10 and 35 °C.

### 7.3. Specific end use(s)

**Specific use(s)**  
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	Ireland	United Kingdom
4,4-Methylenediphenyl diisocyanate 101-68-8	TWA: 10 µg NCO / m <sup>3</sup> (2.9 ppb) STEL: 20 µg NCO / m <sup>3</sup> (5.8 ppb) Sk* +	TWA: 0.005 ppm; STEL: 0.015 ppm (calculated);	TWA: 0.02 mg/m <sup>3</sup> ; STEL: 0.07 mg/m <sup>3</sup> ; poS
o-(p-isocyanatobenzyl)phenyl isocyanate 5873-54-1	TWA: 10 µg NCO / m <sup>3</sup> (2.9 ppb)	TWA: 0.02 mg/m <sup>3</sup> ; STEL: 0.07 mg/m <sup>3</sup> (all,	TWA: 0.02 mg/m <sup>3</sup> ; STEL: 0.07 mg/m <sup>3</sup> ;

# SAFETY DATA SHEET

**BOSTIK HYTEC P510 RENORAPID**  
**Supersedes date** 14-Apr-2025

**Revision date** 19-Jan-2026  
**Revision Number** 1.09

	STEL: 20 µg NCO / m <sup>3</sup> (5.8 ppb) Sk* +	except Methyl isocyanate and 2,4-Toluene diisocyanate or 2,6-Toluene diisocyanate);	poS
Diphenylmethane-diisocyanate, isomers and homologues 9016-87-9	TWA: 6 µg/m <sup>3</sup> ; TWA: 10 µg/m <sup>3</sup> ;	TWA: 0.02 mg/m <sup>3</sup> ; STEL: 0.07 mg/m <sup>3</sup> (all, except Methyl isocyanate and 2,4-Toluene diisocyanate or 2,6-Toluene diisocyanate);	TWA: 0.02 mg/m <sup>3</sup> ; STEL: 0.07 mg/m <sup>3</sup> ; poS
2,2'-methylenediphenyl diisocyanate 2536-05-2	TWA: 10 µg NCO / m <sup>3</sup> (2.9 ppb) STEL: 20 µg NCO / m <sup>3</sup> (5.8 ppb) Sk* +	TWA: 0.02 mg/m <sup>3</sup> ; STEL: 0.07 mg/m <sup>3</sup> (all, except Methyl isocyanate and 2,4-Toluene diisocyanate or 2,6-Toluene diisocyanate);	TWA: 0.02 mg/m <sup>3</sup> ; STEL: 0.07 mg/m <sup>3</sup> ; poS
4-isocyanatosulphonyltoluene tosyl isocyanate 4083-64-1	-	TWA: 0.02 mg/m <sup>3</sup> ; STEL: 0.07 mg/m <sup>3</sup> (all, except Methyl isocyanate and 2,4-Toluene diisocyanate or 2,6-Toluene diisocyanate);	TWA: 0.02 mg/m <sup>3</sup> ; STEL: 0.07 mg/m <sup>3</sup> ; poS

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

### Derived No Effect Level (DNEL)

#### 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 <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>	

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

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>	

### Derived No Effect Level (DNEL)

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

Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
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# SAFETY DATA SHEET

**BOSTIK HYTEC P510 RENORAPID**  
**Supersedes date** 14-Apr-2025

**Revision date** 19-Jan-2026  
**Revision Number** 1.09

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 Short term Local health effects	Inhalation	0.05 mg/m <sup>3</sup>	
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.

<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

Vapours/aerosols must be exhausted directly at the point of origin. 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

Wear suitable gloves. Recommended Use: Nitrile rubber. Butyl rubber. Glove thickness > 0.4 mm. 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

# SAFETY DATA SHEET

BOSTIK HYTEC P510 RENORAPID  
Supersedes date 14-Apr-2025

Revision date 19-Jan-2026  
Revision Number 1.09

**Skin and body protection** breakthrough time for the mentioned glove material is in general greater than 60 min.  
Gloves must conform to standard EN 374  
**Respiratory protection** Wear suitable protective clothing.  
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** Prevent product from entering drains.

## SECTION 9: Physical and chemical properties

### 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>
<b>Melting point / freezing point</b>	No data available	None known
<b>Initial boiling point and boiling range</b>	No data available	None known
<b>Flammability</b>	No data available	
<b>Flammability Limit in Air</b>		None known
<b>Upper flammability or explosive limits</b>	No data available	
<b>Lower flammability or explosive limits</b>	No data available	
<b>Flash point</b>	> 200 °C	CC (closed cup)
<b>Autoignition temperature</b>	No data available	None known
<b>Decomposition temperature</b>		None known
<b>pH</b>	No data available	Reacts with water.
<b>pH (as aqueous solution)</b>	No data available	None known
<b>Kinematic viscosity</b>	No data available	None known
<b>Dynamic viscosity</b>	No data available	
<b>Water solubility</b>	Reacts with water.	Reacts with water
<b>Solubility(ies)</b>	No data available	None known
<b>Partition coefficient</b>	No data available	None known
<b>Vapour pressure</b>	No data available	None known
<b>Relative density</b>	1.2	
<b>Bulk density</b>	No data available	
<b>Density</b>	1.2 g/cm <sup>3</sup>	
<b>Relative vapour density</b>	No data available	None known
<b>Particle characteristics</b>		
<b>Particle Size</b>	No information available	
<b>Particle Size Distribution</b>	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.

# SAFETY DATA SHEET

BOSTIK HYTEC P510 RENORAPID  
Supersedes date 14-Apr-2025

Revision date 19-Jan-2026  
Revision Number 1.09

## 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.

**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**

**Inhalation** Harmful by inhalation.

**Eye contact** Causes serious eye irritation.

**Skin contact** Causes skin irritation.

**Ingestion** 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. Hives. Redness. May cause redness and tearing of the eyes.

#### 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

# SAFETY DATA SHEET

**BOSTIK HYTEC P510 RENORAPID**  
**Supersedes date** 14-Apr-2025

**Revision date** 19-Jan-2026  
**Revision Number** 1.09

**ATEmix (inhalation-dust/mist)** 1.51 mg/L  
**ATEmix (inhalation-vapour)** >20 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
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
4-isocyanatosulphonyltoluene tosyl isocyanate	=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 allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

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

**Carcinogenicity** Suspected of causing cancer. Contains a known or suspected carcinogen.

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

# SAFETY DATA SHEET

BOSTIK HYTEC P510 RENORAPID  
Supersedes date 14-Apr-2025

Revision date 19-Jan-2026  
Revision Number 1.09

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.

H373 - May cause damage to the following organs through prolonged or repeated exposure: Lungs, Inhalation.

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

### 11.2.2. Other information

**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)
Prepolymer, based on aromatic polyisocyanate	ErC50 (72h) > 1.640 mg/l	LC50 (96h) > 1.000 mg/l Danio	-	EC50 (24h) > 1.000 mg/l		

# SAFETY DATA SHEET

**BOSTIK HYTEC P510 RENORAPID**  
**Supersedes date** 14-Apr-2025

**Revision date** 19-Jan-2026  
**Revision Number** 1.09

67815-87-6	Scenedesmus subspicatus (OECD 201)	rerio (OECD 203)		Daphnia magna (OECD 202)		
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		
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-diisocyanate, 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
o-(p-isocyanatobenzyl)phenyl isocyanate	4.5
2,2'-methylenediphenyl diisocyanate	4.5
4-isocyanatosulphonyltoluene tosyl isocyanate	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** Based on available data, the classification criteria are not met.

Chemical name	PBT and vPvB assessment

# SAFETY DATA SHEET

BOSTIK HYTEC P510 RENORAPID  
Supersedes date 14-Apr-2025

Revision date 19-Jan-2026  
Revision Number 1.09

4,4-Methylenediphenyl diisocyanate	Not PBT/vPvB
o-(p-isocyanatobenzyl)phenyl isocyanate	Not PBT/vPvB
2,2'-methylenediphenyl diisocyanate	Not PBT/vPvB
4-isocyanatosulphonyltoluene tosyl isocyanate	Not PBT/vPvB

## 12.6. Endocrine disrupting properties Endocrine disrupting properties

**Endocrine disruption for the environment** Based on available data, the classification criteria are not met.

## 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 contents/container in accordance with local, regional, national, and international regulations as applicable. Uncured product should be disposed of as hazardous waste.

**Contaminated packaging** Handle contaminated packages in the same way as the product itself.

**European Waste Catalogue** 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

**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)

# SAFETY DATA SHEET

BOSTIK HYTEC P510 RENORAPID  
Supersedes date 14-Apr-2025

Revision date 19-Jan-2026  
Revision Number 1.09

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

## 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, 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  $\geq 0.1\%$  (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
o-(p-isocyanatobenzyl)phenyl isocyanate	5873-54-1	56[b] 75
Diphenylmethane-diisocyanate, isomers and homologues	9016-87-9	56 74.
Diisocyanates	--	74
2,2'-methylenediphenyl diisocyanate	2536-05-2	56[c] 75

**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)

##### 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.

# SAFETY DATA SHEET

**BOSTIK HYTEC P510 RENORAPID**  
Supersedes date 14-Apr-2025

Revision date 19-Jan-2026  
Revision Number 1.09

**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) on the Drug Precursors list.

## 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**

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

SVHC: Substances of Very High Concern for Authorisation:

PBT: Persistent, Bioaccumulative, and Toxic (PBT) Substances

vPvB: Very Persistent and very Bioaccumulative (vPvB) Substances

STOT RE: Specific target organ toxicity - Repeated exposure

STOT SE: Specific target organ toxicity - Single exposure

EWC: European Waste Catalogue

LOW: List of Wastes (see <http://ec.europa.eu/environment/waste/framework/list.htm>)

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IATA: International Air Transport Association

ICAO: ICAO-TI: Technical Instructions for the Safe Transport of Dangerous Goods by Air

IMDG: International Maritime Dangerous Goods

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail

### **Legend SECTION 8: Exposure controls/personal protection**

# SAFETY DATA SHEET

**BOSTIK HYTEC P510 RENORAPID**  
Supercedes date 14-Apr-2025

Revision date 19-Jan-2026  
Revision Number 1.09

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
AGW	Occupational exposure limit value	BGW	Biological limit value
Ceiling	Maximum limit value	SK*	Skin designation

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapour	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitisation	Calculation method
Skin sensitisation	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Chronic aquatic toxicity	Calculation method
Acute aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

## Key literature references and sources for data used to compile the SDS

European Food Safety Authority (EFSA)  
European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA\_RAC)  
European Chemicals Agency (ECHA) (ECHA\_API)  
U.S. Environmental Protection Agency  
Acute Exposure Guideline Level(s) (AEGL(s))  
International Uniform Chemical Information Database (IUCLID)  
Japan National Institute of Technology and Evaluation (NITE)  
NIOSH (National Institute for Occupational Safety and Health)  
International Organization for Economic Co-operation and Development (OECD) Environment, Health, and Safety Publications  
International Organization for Economic Co-operation and Development (OECD) High Production Volume Chemicals Program  
International Organization for Economic Co-operation and Development (OECD) Screening Information Data Set

**Prepared By** Product Safety & Regulatory Affairs

**Revision date** 19-Jan-2026

**Revision Note** SDS sections updated: 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

## Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Regulation (EC) No. 1907/2006 as amended by Regulation (EU) No. 2020/878, and Regulation (EC) No. 1272/2008

## 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.

# SAFETY DATA SHEET

**BOSTIK HYTEC P510 RENORAPID**  
**Supersedes date** 14-Apr-2025

**Revision date** 19-Jan-2026  
**Revision Number** 1.09

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**End of Safety Data Sheet**