



## SAFETY DATA SHEET

XENCAST® PX90 HARD FLEXIBLE POLYURETHANE RUBBER  
PART A

Page: 1

Compilation date: 02/09/2015

Revision date: 08/03/2017

Revision No: 2

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

#### 1.1. Product identifier

**Product name:** XENCAST® PX90 Hard Flexible Polyurethane Rubber Part A

**Product code:** PX90-A

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

**Use of substance / mixture:** PC1: Adhesives, sealants. PC9a: Coatings and paints, thinners, paint removers. PC9b: Fillers, putties, plasters, modelling clay. PC32: Polymer preparations and compounds. PROC1: Use in closed process, no likelihood of exposure PROC2: Use in closed, continuous process with occasional controlled exposure PROC3: Use in closed batch process (synthesis or formulation) PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises PROC5: Mixing or blending in batch processes for formulation of preparations\* and articles (multistage and/or significant contact) PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing) PROC10: Roller application or brushing PROC13: Treatment of articles by dipping and pouring PROC19: Hand-mixing with intimate contact and only PPE available ERC2: Formulation of preparations\* ERC3: Formulation in materials ERC5: Industrial use resulting in inclusion into or onto a matrix ERC6d: Industrial use of process regulators for polymerisation processes in production of resins, rubbers, polymers

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

**Company name:** Easy Composites Ltd  
Unit 39 Park Hall Business Village  
Stoke on Trent  
Staffordshire  
ST3 5XA  
United Kingdom  
**Tel:** +44 (0) 1782 454499  
sales@easycomposites.co.uk

# SAFETY DATA SHEET

XENCAST® PX90 HARD FLEXIBLE POLYURETHANE RUBBER - PART A

Page: 2

## 1.4. Emergency telephone number

**Emergency tel:** +44 (0) 1782 454499  
(office hours only)

## Section 2: Hazards identification

### 2.1. Classification of the substance or mixture

**Classification under CLP:** Acute Tox. 4: H302; Aquatic Chronic 2: H411; Skin Sens. 1: H317

**Most important adverse effects:** Harmful if swallowed. May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects.

### 2.2. Label elements

#### Label elements:

**Hazard statements:** H302: Harmful if swallowed.  
H317: May cause an allergic skin reaction.  
H411: Toxic to aquatic life with long lasting effects.

**Hazard pictograms:** GHS07: Exclamation mark  
GHS09: Environmental



**Signal words:** Warning

**Precautionary statements:** P261: Avoid breathing dust/fumes/gas/mist/vapours/spray.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P301+312: IF SWALLOWED: Call a doctor if you feel unwell.  
P302+352: IF ON SKIN: Wash with plenty of water/.  
P321: Specific treatment (see instructions on this label).  
P330: Rinse mouth.

### 2.3. Other hazards

**PBT:** This product is not identified as a PBT/vPvB substance.

## Section 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous ingredients:

6-METHYL-2,4-BIS(METHYLTHIO)PHENYLENE-1,3-DIAMINE - REACH registered number(s): 01-0000015292-76

EINECS	CAS	PBT / WEL	CLP Classification	Percent
--------	-----	-----------	--------------------	---------

[cont...]

# SAFETY DATA SHEET

XENCAST® PX90 HARD FLEXIBLE POLYURETHANE RUBBER - PART A

Page: 3

403-240-8	106264-79-3	-	Acute Tox. 4: H302; Skin Sens. 1: H317; Aquatic Chronic 1: H410; Aquatic Acute 1: H400	1-25%
-----------	-------------	---	--	-------

## Section 4: First aid measures

### 4.1. Description of first aid measures

**Skin contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water. Consult a doctor.

**Eye contact:** Bathe the eye with running water for 15 minutes. Consult a doctor.

**Ingestion:** Wash out mouth with water. Do not induce vomiting. Consult a doctor.

**Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. Move to fresh air in case of accidental inhalation of vapours. If unconscious and breathing is OK, place in the recovery position. Consult a doctor.

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

**Skin contact:** There may be irritation and redness at the site of contact.

**Eye contact:** There may be irritation and redness.

**Ingestion:** Nausea and stomach pain may occur.

**Inhalation:** There may be a feeling of tightness in the chest with shortness of breath. Exposure may cause coughing or wheezing.

**Delayed / immediate effects:** Immediate effects can be expected after short-term exposure.

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

**Immediate / special treatment:** Show this safety data sheet to the doctor in attendance.

## Section 5: Fire-fighting measures

### 5.1. Extinguishing media

**Extinguishing media:** Suitable extinguishing media for the surrounding fire should be used.

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

**Exposure hazards:** In combustion emits toxic fumes.

### 5.3. Advice for fire-fighters

**Advice for fire-fighters:** Wear protective clothing to prevent contact with skin and eyes. Wear self-contained breathing apparatus.

## Section 6: Accidental release measures

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

**Personal precautions:** Refer to section 8 of SDS for personal protection details. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid.

[cont...]

# SAFETY DATA SHEET

XENCAST® PX90 HARD FLEXIBLE POLYURETHANE RUBBER - PART A

Page: 4

## 6.2. Environmental precautions

**Environmental precautions:** Do not discharge into drains or rivers. Contain the spillage using bunding.

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

**Clean-up procedures:** Mix with sand or vermiculite. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Clean-up should be dealt with only by qualified personnel familiar with the specific substance.

## 6.4. Reference to other sections

**Reference to other sections:** Refer to section 8 of SDS. Refer to section 13 of SDS.

## Section 7: Handling and storage

### 7.1. Precautions for safe handling

**Handling requirements:** Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area.  
Do not handle in a confined space. Avoid the formation or spread of mists in the air.

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

**Storage conditions:** Keep container tightly closed. Avoid contact with water or humidity.  
**Suitable packaging:** Must only be kept in original packaging.

### 7.3. Specific end use(s)

**Specific end use(s):** No data available.

## Section 8: Exposure controls/personal protection

### 8.1. Control parameters

**Workplace exposure limits:** No data available.

### DNEL/PNEC Values

**DNEL / PNEC** No data available.

### 8.2. Exposure controls

**Engineering measures:** Ensure there is sufficient ventilation of the area.  
**Respiratory protection:** Gas/vapour filter, type A: organic vapours (EN141). Self-contained breathing apparatus must be available in case of emergency.  
**Hand protection:** Impermeable gloves.  
**Eye protection:** Safety glasses. Ensure eye bath is to hand.  
**Skin protection:** Impermeable protective clothing.  
**Environmental:** Ensure all engineering measures mentioned in section 7 of SDS are in place.

## Section 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

**State:** Liquid  
**Colour:** Yellow-orange

[cont...]

# SAFETY DATA SHEET

XENCAST® PX90 HARD FLEXIBLE POLYURETHANE RUBBER - PART A

Page: 5

**Odour:** Characteristic odour

**Viscosity:** 850 mPas (25°C)

**Relative density:** 1.02 - 1.07

## 9.2. Other information

**Other information:** No data available.

## Section 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity:** Stable under recommended transport or storage conditions.

### 10.2. Chemical stability

**Chemical stability:** Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

**Hazardous reactions:** Hazardous reactions will not occur under normal transport or storage conditions.  
Decomposition may occur on exposure to conditions or materials listed below.

### 10.4. Conditions to avoid

**Conditions to avoid:** Heat. Moist air. Humidity.

### 10.5. Incompatible materials

**Materials to avoid:** Water. Acids.

### 10.6. Hazardous decomposition products

**Haz. decomp. products:** In combustion emits toxic fumes.

## Section 11: Toxicological information

### 11.1. Information on toxicological effects

#### Hazardous ingredients:

#### 6-METHYL-2,4-BIS(METHYLTHIO)PHENYLENE-1,3-DIAMINE

DERMAL	RBT	LD50	>2000	mg/kg
ORAL	RAT	LD50	1515	mg/kg

#### Relevant hazards for product:

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	ING	Hazardous: calculated
Respiratory/skin sensitisation	DRM	Hazardous: calculated

### Symptoms / routes of exposure

**Skin contact:** There may be irritation and redness at the site of contact.

**Eye contact:** There may be irritation and redness.

**Ingestion:** Nausea and stomach pain may occur.

[cont...]

# SAFETY DATA SHEET

XENCAST® PX90 HARD FLEXIBLE POLYURETHANE RUBBER - PART A

Page: 6

**Inhalation:** There may be a feeling of tightness in the chest with shortness of breath. Exposure may cause coughing or wheezing.

**Delayed / immediate effects:** Immediate effects can be expected after short-term exposure.

## Section 12: Ecological information

### 12.1. Toxicity

**Hazardous ingredients:**

#### 6-METHYL-2,4-BIS(METHYLTHIO)PHENYLENE-1,3-DIAMINE

DAPHNIA	48H EC50	0.9	mg/l
GREEN ALGA (Selenastrum capricornutum)	72H EC50	7.6	mg/l
RAINBOW TROUT (Oncorhynchus mykiss)	96H LC50	7.3	mg/l

### 12.2. Persistence and degradability

**Persistence and degradability:** No data available.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential:** No data available.

### 12.4. Mobility in soil

**Mobility:** No data available.

### 12.5. Results of PBT and vPvB assessment

**PBT identification:** This product is not identified as a PBT/vPvB substance.

### 12.6. Other adverse effects

**Other adverse effects:** No data available.

## Section 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal operations:** Transfer to a suitable container and arrange for collection by specialised disposal company.

**Disposal of packaging:** Arrange for collection by specialised disposal company.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

## Section 14: Transport information

### 14.1. UN number

**UN number:** UN3082

### 14.2. UN proper shipping name

**Shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Contains: 6-METHYL-2,4-BIS(METHYLTHIO)PHENYLENE-1,3-DIAMINE)

[cont...]

# SAFETY DATA SHEET

XENCAST® PX90 HARD FLEXIBLE POLYURETHANE RUBBER - PART A

Page: 7

## 14.3. Transport hazard class(es)

Transport class: 9

## 14.4. Packing group

Packing group: III

## 14.5. Environmental hazards

Environmentally hazardous: Yes

Marine pollutant: Yes

## 14.6. Special precautions for user

Tunnel code: E

Transport category: 3

## Section 15: Regulatory information

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

Specific regulations: Not applicable.

### 15.2. Chemical Safety Assessment

**Chemical safety assessment:** A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

## Section 16: Other information

### Other information

**Other information:** This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.

\* indicates text in the SDS which has changed since the last revision.

**Phrases used in s.2 and s.3:** H302: Harmful if swallowed.

H317: May cause an allergic skin reaction.

H410: Very toxic to aquatic life with long lasting effects.

H411: Toxic to aquatic life with long lasting effects.

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.



## SAFETY DATA SHEET

XENCAST® PX90 HARD FLEXIBLE POLYURETHANE RUBBER

PART B

Page: 1

Compilation date: 02/09/2015

Revision date: 08/03/2017

Revision No: 2

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

#### 1.1. Product identifier

**Product name:** XENCAST® PX90 Hard Flexible Polyurethane Rubber Part B

**Product code:** PX90-B

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

**Use of substance / mixture:** PC1: Adhesives, sealants. PC9a: Coatings and paints, thinners, paint removers. PC9b: Fillers, putties, plasters, modelling clay. PC32: Polymer preparations and compounds. PROC1: Use in closed process, no likelihood of exposure PROC2: Use in closed, continuous process with occasional controlled exposure PROC3: Use in closed batch process (synthesis or formulation) PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises PROC5: Mixing or blending in batch processes for formulation of preparations\* and articles (multistage and/or significant contact) PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing) PROC10: Roller application or brushing PROC13: Treatment of articles by dipping and pouring PROC19: Hand-mixing with intimate contact and only PPE available ERC2: Formulation of preparations\* ERC3: Formulation in materials ERC5: Industrial use resulting in inclusion into or onto a matrix ERC6d: Industrial use of process regulators for polymerisation processes in production of resins, rubbers, polymers

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

**Company name:** Easy Composites Ltd  
Unit 39 Park Hall Business Village  
Stoke on Trent  
Staffordshire  
ST3 5XA  
United Kingdom  
**Tel:** +44 (0) 1782 454499  
sales@easycomposites.co.uk



# SAFETY DATA SHEET

XENCAST® PX90 HARD FLEXIBLE POLYURETHANE RUBBER - PART B

Page: 2

## 1.4. Emergency telephone number

**Emergency tel:** +44 (0) 1782 454499  
(office hours only)

## Section 2: Hazards identification

### 2.1. Classification of the substance or mixture

**Classification under CLP:** Acute Tox. 4: H332; Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Asp. Tox. 1: H304; Carc. 2: H351; Eye Irrit. 2: H319; Resp. Sens. 1: H334; Skin Irrit. 2: H315; Skin Sens. 1: H317; STOT RE 2: H373; STOT SE 3: H335

**Most important adverse effects:** May be fatal if swallowed and enters airways. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

### 2.2. Label elements

#### Label elements:

**Hazard statements:** 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.  
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.  
H400: Very toxic to aquatic life.  
H410: Very toxic to aquatic life with long lasting effects.

**Hazard pictograms:** GHS07: Exclamation mark  
GHS08: Health hazard  
GHS09: Environmental



**Signal words:** Danger

**Precautionary statements:** P260: Do not breathe dust/fumes/gas/mist/vapours/spray.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P301+310: IF SWALLOWED: Immediately call a doctor.  
P302+352: IF ON SKIN: Wash with plenty of water/.

[cont...]

# SAFETY DATA SHEET

XENCAST® PX90 HARD FLEXIBLE POLYURETHANE RUBBER - PART B

Page: 3

P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P304+341: IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

## 2.3. Other hazards

**PBT:** This product is not identified as a PBT/vPvB substance.

## Section 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous ingredients:

PREPOLYMER BASED ON AROMATIC POLYISOCYANATE

EINECS	CAS	PBT / WEL	CLP Classification	Percent
-	99784-49-3	-	Eye Irrit. 2: H319; STOT SE 3: H335; STOT RE 2: H373; Acute Tox. 4: H332; Skin Irrit. 2: H315; Resp. Sens. 1: H334; Skin Sens. 1: H317	25-50%

DIISOPROPYLNAPHTHALENE ISOMERS - REACH registered number(s): 01-2119565150-48

254-052-6	38640-62-9	-	Asp. Tox. 1: H304; Aquatic Chronic 1: H410	25-50%
-----------	------------	---	--	--------

DIPHENYLMETHANE-2,4'-DI-ISOCYANATE - REACH registered number(s): 01-2119480143-45

227-534-9	5873-54-1	-	Carc. 2: H351; Acute Tox. 4: H332; STOT RE 2: H373; Eye Irrit. 2: H319; STOT SE 3: H335; Skin Irrit. 2: H315; Resp. Sens. 1: H334; Skin Sens. 1: H317	1-25%
-----------	-----------	---	---	-------

DIPHENYLMETHANE-4,4'-DI-ISOCYANATE - REACH registered number(s): 01-2119457014-47

202-966-0	101-68-8	-	Carc. 2: H351; Acute Tox. 4: H332; STOT RE 2: H373; Eye Irrit. 2: H319; STOT SE 3: H335; Skin Irrit. 2: H315; Resp. Sens. 1: H334; Skin Sens. 1: H317	1-25%
-----------	----------	---	---	-------

## Section 4: First aid measures

### 4.1. Description of first aid measures

**Skin contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water. Consult a doctor.

**Eye contact:** Bathe the eye with running water for 15 minutes. Consult a doctor.

**Ingestion:** Wash out mouth with water. Do not induce vomiting. Consult a doctor.

**Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. Move to fresh air in case of accidental inhalation of vapours. If unconscious and breathing is OK, place in the recovery position. Consult a doctor.

[cont...]

# SAFETY DATA SHEET

XENCAST® PX90 HARD FLEXIBLE POLYURETHANE RUBBER - PART B

Page: 4

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

**Skin contact:** There may be irritation and redness at the site of contact.

**Eye contact:** There may be irritation and redness.

**Ingestion:** Nausea and stomach pain may occur.

**Inhalation:** There may be a feeling of tightness in the chest with shortness of breath. Exposure may cause coughing or wheezing.

**Delayed / immediate effects:** Immediate effects can be expected after short-term exposure.

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

**Immediate / special treatment:** Show this safety data sheet to the doctor in attendance.

## Section 5: Fire-fighting measures

### 5.1. Extinguishing media

**Extinguishing media:** Suitable extinguishing media for the surrounding fire should be used.

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

**Exposure hazards:** In combustion emits toxic fumes.

### 5.3. Advice for fire-fighters

**Advice for fire-fighters:** Wear protective clothing to prevent contact with skin and eyes. Wear self-contained breathing apparatus.

## Section 6: Accidental release measures

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

**Personal precautions:** Refer to section 8 of SDS for personal protection details. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid.

### 6.2. Environmental precautions

**Environmental precautions:** Do not discharge into drains or rivers. Contain the spillage using bunding.

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

**Clean-up procedures:** Mix with sand or vermiculite. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Clean-up should be dealt with only by qualified personnel familiar with the specific substance.

### 6.4. Reference to other sections

**Reference to other sections:** Refer to section 8 of SDS. Refer to section 13 of SDS.

## Section 7: Handling and storage

### 7.1. Precautions for safe handling

**Handling requirements:** Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air.

[cont...]

## SAFETY DATA SHEET

XENCAST® PX90 HARD FLEXIBLE POLYURETHANE RUBBER - PART B

Page: 5

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

**Storage conditions:** Keep container tightly closed. Avoid contact with water or humidity. >20°C

**Suitable packaging:** Must only be kept in original packaging.

### 7.3. Specific end use(s)

**Specific end use(s):** No data available.

## Section 8: Exposure controls/personal protection

### 8.1. Control parameters

**Hazardous ingredients:**

**DIPHENYLMETHANE-2,4'-DI-ISOCYANATE**

**Workplace exposure limits:**

**Respirable dust**

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	0.02 mg/m <sup>3</sup>	0.07 mg/m <sup>3</sup>	-	-

**DIPHENYLMETHANE-4,4'-DI-ISOCYANATE**

UK	0.02 mg/m <sup>3</sup>	0.07 mg/m <sup>3</sup>	-	-
----	------------------------	------------------------	---	---

### DNEL/PNEC Values

**Hazardous ingredients:**

**DIPHENYLMETHANE-2,4'-DI-ISOCYANATE**

Type	Exposure	Value	Population	Effect
DNEL	Dermal	50 mg/kg bw/day	Workers	Systemic
DNEL	Inhalation	0.1 mg/m <sup>3</sup> air	Workers	Systemic
DNEL	Dermal	28.7 mg/cm <sup>2</sup>	Workers	Local
DNEL	Inhalation	0.1 mg/m <sup>3</sup> air	Workers	Local
DNEL	Inhalation (repeated dose)	0.05 mg/m <sup>3</sup> air	Workers	Systemic
DNEL	Inhalation (repeated dose)	0.05 mg/m <sup>3</sup> air	Workers	Local
DNEL	Dermal	25 mg/kg bw/day	General Population	Systemic
DNEL	Inhalation	0.05 mg/m <sup>3</sup> air	General Population	Systemic
DNEL	Oral	20 mg/kg bw/day	General Population	Systemic
DNEL	Dermal	17.2 mg/cm <sup>2</sup>	General Population	Local
DNEL	Inhalation	0.05 mg/m <sup>3</sup> air	General Population	Local
DNEL	Inhalation (repeated dose)	0.025 mg/m <sup>3</sup> air	General Population	Systemic
DNEL	Inhalation (repeated dose)	0.025 mg/m <sup>3</sup> air	General Population	Local
PNEC	Fresh water	> 1 mg/l	-	-
PNEC	Marine water	> 0.1 mg/l	-	-

[cont...]

## SAFETY DATA SHEET

XENCAST® PX90 HARD FLEXIBLE POLYURETHANE RUBBER - PART B

Page: 6

PNEC	Soil (agricultural)	> 1 mg/kg dry weight	-	-
PNEC	Microorganisms in sewage treatment	> 1 mg/l	-	-

### DIPHENYLMETHANE-4,4'-DI-ISOCYANATE

Type	Exposure	Value	Population	Effect
DNEL	Inhalation	0.05 mg/m <sup>3</sup>	Workers	Systemic
DNEL	Inhalation	0.05 mg/m <sup>3</sup>	Workers	Local
PNEC	Fresh water	1 mg/l	-	-
PNEC	Marine water	0.1 mg/l	-	-
DNEL	Dermal	50 mg/kg bw/day	Workers	Systemic
DNEL	Inhalation	0.1 mg/m <sup>3</sup> air	Workers	Systemic
DNEL	Dermal	28.7 mg/cm <sup>2</sup>	Workers	Local
DNEL	Inhalation	0.1 mg/m <sup>3</sup> air	Workers	Local
DNEL	Inhalation (repeated dose)	0.05 mg/m <sup>3</sup> air	Workers	Systemic
DNEL	Inhalation (repeated dose)	0.05 mg/m <sup>3</sup> air	Workers	Local
DNEL	Dermal	25 mg/kg bw/day	General Population	Systemic
DNEL	Inhalation	0.05 mg/m <sup>3</sup> air	General Population	Systemic
DNEL	Oral	20 mg/kg bw/day	General Population	Systemic
DNEL	Dermal	17.2 mg/cm <sup>2</sup>	General Population	Systemic
DNEL	Inhalation	0.05 mg/m <sup>3</sup> air	General Population	Local
DNEL	Inhalation (repeated dose)	0.025 mg/m <sup>3</sup> air	General Population	Systemic
DNEL	Inhalation (repeated dose)	0.025 mg/m <sup>3</sup> air	General Population	Local
PNEC	Soil (agricultural)	> 1 mg/kg dry weight	-	-
PNEC	Microorganisms in sewage treatment	> 1 mg/l	-	-

### 8.2. Exposure controls

**Engineering measures:** Ensure there is sufficient ventilation of the area.

**Respiratory protection:** Gas/vapour filter, type A: organic vapours (EN141). Self-contained breathing apparatus must be available in case of emergency.

**Hand protection:** Impermeable gloves.

**Eye protection:** Safety glasses. Ensure eye bath is to hand.

**Skin protection:** Impermeable protective clothing.

**Environmental:** Ensure all engineering measures mentioned in section 7 of SDS are in place.

## Section 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

**State:** Liquid

**Colour:** Pale yellow

**Odour:** Characteristic odour

[cont...]

# SAFETY DATA SHEET

XENCAST® PX90 HARD FLEXIBLE POLYURETHANE RUBBER - PART B

Page: 7

**Evaporation rate:** No data available.

**Oxidising:** No data available.

**Solubility in water:** No data available.

**Viscosity:** 350 mPas (25°C)

**Boiling point/range°C:** No data available.

**Flammability limits %: lower:** No data available.

**Flash point°C:** No data available.

**Autoflammability°C:** No data available.

**Relative density:** 1.02 - 1.07

**VOC g/l:** No data available.

**Melting point/range°C:** No data available.

**upper:** No data available.

**Part.coeff. n-octanol/water:** No data available.

**Vapour pressure:** No data available.

**pH:** No data available.

## 9.2. Other information

**Other information:** No data available.

## Section 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity:** Stable under recommended transport or storage conditions.

### 10.2. Chemical stability

**Chemical stability:** Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

**Hazardous reactions:** Hazardous reactions will not occur under normal transport or storage conditions.  
Decomposition may occur on exposure to conditions or materials listed below.

### 10.4. Conditions to avoid

**Conditions to avoid:** < 20°C. Heat. Moist air. Humidity.

### 10.5. Incompatible materials

**Materials to avoid:** Water. Acids. Alcohols. Amines.

### 10.6. Hazardous decomposition products

**Haz. decomp. products:** In combustion emits toxic fumes.

## Section 11: Toxicological information

### 11.1. Information on toxicological effects

**Hazardous ingredients:**

**PREPOLYMER BASED ON AROMATIC POLYISOCYANATE**

DERMAL	RBT	LD50	>9400	mg/kg
ORAL	RAT	LD50	>2001	mg/kg

[cont...]

## SAFETY DATA SHEET

XENCAST® PX90 HARD FLEXIBLE POLYURETHANE RUBBER - PART B

Page: 8

### DIISOPROPYLNAPHTHALENE ISOMERS

-	RAT	NOAEL (6 mon)	170	mg/kg/d
DERMAL	RAT	LD50	> 4000	mg/kg
DUST/MIST	RAT	1H LC50	> 5.6	mg/l
ORAL	RAT	LD50	> 4000	mg/kg

### DIPHENYLMETHANE-2,4'-DI-ISOCYANATE

DERMAL	RBT	LD50	> 9400	mg/kg
ORAL	RAT	LD50	> 2001	mg/kg

### DIPHENYLMETHANE-4,4'-DI-ISOCYANATE

ORL	MUS	LD50	2200	mg/kg
ORL	RAT	LD50	9200	mg/kg

#### Relevant hazards for product:

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	INH	Hazardous: calculated
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated
Respiratory/skin sensitisation	INH DRM	Hazardous: calculated
Carcinogenicity	--	Hazardous: calculated
STOT-single exposure	INH	Hazardous: calculated
STOT-repeated exposure	-	Hazardous: calculated
Aspiration hazard	-	Hazardous: calculated

#### Symptoms / routes of exposure

**Skin contact:** There may be irritation and redness at the site of contact.

**Eye contact:** There may be irritation and redness.

**Ingestion:** Nausea and stomach pain may occur.

**Inhalation:** There may be a feeling of tightness in the chest with shortness of breath. Exposure may cause coughing or wheezing.

**Delayed / immediate effects:** Immediate effects can be expected after short-term exposure.

### Section 12: Ecological information

#### 12.1. Toxicity

**Hazardous ingredients:**

[cont...]

# SAFETY DATA SHEET

XENCAST® PX90 HARD FLEXIBLE POLYURETHANE RUBBER - PART B

Page: 9

## PREPOLYMER BASED ON AROMATIC POLYISOCYANATE

BACTERIA (Activated sludge)	3H EC50	>100	mg/l
-----------------------------	---------	------	------

## DIISOPROPYLNAPHTHALENE ISOMERS

ALGAE	72H EC0	0.15	mg/l
DAPHNIA	21D NOEC	0.013	mg/l
DAPHNIA	48H EC0	0.16	mg/l
DAPHNIA	48H LL50	1.7	mg/l
FISH	96H LC0	0.5	mg/l

## DIPHENYLMETHANE-2,4'-DI-ISOCYANATE

BACTERIA (Activated Sludge)	3H EC50	> 100	mg/l
-----------------------------	---------	-------	------

## DIPHENYLMETHANE-4,4'-DI-ISOCYANATE

BACTERIA (Activated Sludge)	3H EC50	> 100	mg/l
-----------------------------	---------	-------	------

### 12.2. Persistence and degradability

**Persistence and degradability:** No data available.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential:** No data available.

### 12.4. Mobility in soil

**Mobility:** No data available.

### 12.5. Results of PBT and vPvB assessment

**PBT identification:** This product is not identified as a PBT/vPvB substance.

### 12.6. Other adverse effects

**Other adverse effects:** No data available.

## Section 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal operations:** Transfer to a suitable container and arrange for collection by specialised disposal company.

**Waste code number:** 08 05 01

**Disposal of packaging:** Arrange for collection by specialised disposal company.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

## Section 14: Transport information

[cont...]



# SAFETY DATA SHEET

XENCAST® PX90 HARD FLEXIBLE POLYURETHANE RUBBER - PART B

Page: 10

## 14.1. UN number

UN number: UN3082

## 14.2. UN proper shipping name

Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Contains:; DIISOPROPYLNAPHTHALENE ISOMERS)

## 14.3. Transport hazard class(es)

Transport class: 9

## 14.4. Packing group

Packing group: III

## 14.5. Environmental hazards

Environmentally hazardous: Yes

Marine pollutant: Yes

## 14.6. Special precautions for user

Tunnel code: E

Transport category: 3

## Section 15: Regulatory information

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

Specific regulations: Not applicable.

### 15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

## Section 16: Other information

### Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.

\* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and s.3: 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.

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 <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H373: May cause damage to organs <or state all organs affected, if known> through

[cont...]

## SAFETY DATA SHEET

XENCAST® PX90 HARD FLEXIBLE POLYURETHANE RUBBER - PART B

Page: 11

prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.