

# SAFETY DATA SHEET

DURASEAL PART B

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Compilation date: 30/03/2017

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Revision No: 2

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

### 1.1. Product identifier

**Product name:** DURASEAL PART B

**Product code:** KDR.095(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.

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

**Company name:** Vuba Building Products Limited

Unit C, Subway Street

Venture Business Park

Hull

HU3 4EL

United Kingdom

**Tel:** +44 (0) 1482 778 897

**Email:** supplies@vuba-group.co.uk

### 1.4. Emergency telephone number

**Emergency tel:** +44 (0) 1482 778 897

(office hours only)

## Section 2: Hazards identification

### 2.1. Classification of the substance or mixture

**Classification under CLP:** Eye Dam. 1: H318; STOT SE 3: H335; Acute Tox. 4: H302; Acute Tox. 4: H332; Aquatic Chronic 3: H412; Skin Irrit. 2: H315; Skin Sens. 1: H317

**Most important adverse effects:** Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Harmful if swallowed. Harmful if inhaled. May cause respiratory irritation. Harmful to aquatic life with long lasting effects.

### 2.2. Label elements

**Label elements:**

**Hazard statements:** H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H318: Causes serious eye damage.

H302: Harmful if swallowed.

H332: Harmful if inhaled.

H335: May cause respiratory irritation.

H412: Harmful to aquatic life with long lasting effects.

[cont...]

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**Hazard pictograms:** GHS05: Corrosion  
GHS07: Exclamation mark



**Signal words:** Danger

**Precautionary statements:** P264: Wash hands thoroughly after handling.  
P273: Avoid release to the environment.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P285: In case of inadequate ventilation wear respiratory protection.  
P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting  
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water .  
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P309+P311: IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.  
P502: Refer to manufacturer or supplier for information on recovery or recycling.

### 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:

HEXAMETHYLENE-1,6-DIISOCYANATE HOMOPOLYMER - REACH registered number(s): 01-2119485796-17-0000

EINECS	CAS	PBT / WEL	CLP Classification	Percent
931-274-8	-	-	STOT SE 3: H335; Acute Tox. 4: H332; Skin Sens. 1: H317	>90%

POLYOXYETHYLENE TRIDECYL ETHER PHOSPHATE

-	9046-01-9	-	Skin Irrit. 2: H315; Eye Dam. 1: H318; Aquatic Chronic 2: H411	1-3%
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CYCLOHEXYLDIMETHYLAMINE - REACH registered number(s): 01-2119533030-60-####

202-715-5	98-94-2	-	Flam. Liq. 3: H226; Acute Tox. 3: H301; Skin Corr. 1B: H314; Aquatic Chronic 2: H411; Acute Tox. 3: H311; Acute Tox. 3: H331	<1%
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#### HEXAMETHYLENE-DI-ISOCYANATE

212-485-8	822-06-0	-	Acute Tox. 3: H331; Eye Irrit. 2: H319; STOT SE 3: H335; Skin Irrit. 2: H315; Resp. Sens. 1: H334; Skin Sens. 1: H317	<1%
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### 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. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Consult a doctor.
- Eye contact:** Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.
- Ingestion:** Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Transfer to hospital as soon as possible.
- Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. 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. There may be redness or whiteness of the skin in the area of exposure. Severe burns may occur. An itchy rash may occur at the site of contact. There may be mild irritation at the site of contact.
- Eye contact:** There may be pain and redness. The eyes may water profusely. There may be severe pain. The vision may become blurred. May cause permanent damage.
- Ingestion:** There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting and diarrhoea.
- Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing. Drowsiness or mental confusion may occur.

**Delayed / immediate effects:** Immediate effects can be expected after short-term exposure. Delayed effects can be expected after long-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. Immediate medical attention is required. Eye bathing equipment should be available on the premises.

### Section 5: Fire-fighting measures

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#### 5.1. Extinguishing media

**Extinguishing media:** Suitable extinguishing media for the surrounding fire should be used. Alcohol or polymer foam. Dry chemical powder. Do not use water.

#### 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 self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

### Section 6: Accidental release measures

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

**Personal precautions:** Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Turn leaking containers leak-side up to prevent the escape of liquid. Refer to section 8 of SDS for personal protection details. Remove all incompatible materials as outlined in section 10 of SDS.

#### 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:** Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

#### 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. Avoid the formation or spread of mists in the air. Smoking is forbidden.

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

**Storage conditions:** Store in a cool, well ventilated area. Keep container tightly closed.

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

#### 7.3. Specific end use(s)

**Specific end use(s):** No special requirement.

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### Section 8: Exposure controls/personal protection

#### 8.1. Control parameters

**Hazardous ingredients:**

**HEXAMETHYLENE-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>	-	-

#### DNEL/PNEC Values

**Hazardous ingredients:**

**HEXAMETHYLENE-1,6-DIISOCYANATE HOMOPOLYMER**

Type	Exposure	Value	Population	Effect
DNEL	Inhalation (Acute)	0.5 mg/m <sup>3</sup>	Workers	Local
DNEL	Inhalation (Chronic)	1 mg/m <sup>3</sup>	Workers	Local
PNEC	Fresh water	0.127 mg/L	-	-
PNEC	Marine water	0.013 mg/L	-	-
PNEC	Fresh water sediments	266 701 mg/kg sedime	-	-
PNEC	Marine sediments	26 670 mg/kg sedimen	-	-
PNEC	Soil (agricultural)	53 183 mg/kg soil dw	-	-

**CYCLOHEXYLDIMETHYLAMINE**

Type	Exposure	Value	Population	Effect
DNEL	Inhalation (repeated dose)	0.53 mg/m <sup>3</sup>	Workers	Systemic
DNEL	Inhalation	8.3 mg/m <sup>3</sup>	Workers	Local
DNEL	Dermal (repeated dose)	0.6 mg/kg bw/day	General Population	Systemic
PNEC	Fresh water	0.002 mg/L	-	-
PNEC	Marine water	0.0002 mg/L	-	-
PNEC	Fresh water sediments	0.021 mg/kg sediment	-	-
PNEC	Marine sediments	0.0021 mg/kg sedimen	-	-
PNEC	Soil (agricultural)	0.003 mg/kg soil dw	-	-

**HEXAMETHYLENE-DI-ISOCYANATE**

Type	Exposure	Value	Population	Effect
DNEL	Inhalation (repeated dose)	0.035 mg/m <sup>3</sup>	Workers	Local
DNEL	Inhalation	0.07 mg/m <sup>3</sup>	Workers	Local
DNEL	Inhalation (repeated dose)	0.035 mg/m <sup>3</sup>	Workers	Systemic

[cont...]

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DNEL	Inhalation	0.07 mg/m <sup>3</sup>	Workers	Systemic
PNEC	Fresh water	0.0774 mg/L	-	-
PNEC	Marine water	0.000774 mg/L	-	-

### 8.2. Exposure controls

**Engineering measures:** Ensure there is sufficient ventilation of the area. Ensure there is exhaust ventilation of the area. Ensure all engineering measures mentioned in section 7 of SDS are in place.

**Respiratory protection:** Gas/vapour filter, type A: organic vapours (EN141).

**Hand protection:** Protective gloves. Gloves (solvent-resistant). Breakthrough time of the glove material > 2 hours. BS EN 374:2003 / EN ISO 374-1:2016

**Eye protection:** Tightly fitting safety goggles. Ensure eye bath is to hand.

**Skin protection:** Protective clothing.

**Environmental:** Refer to specific Member State legislation for requirements under Community environmental legislation.

## Section 9: Physical and chemical properties

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

**State:** Liquid

**Colour:** Pale yellow

**Odour:** Characteristic odour

**Evaporation rate:** Negligible

**Oxidising:** Non-oxidising (by EC criteria)

**Solubility in water:** Not miscible

**Viscosity:** Viscous

**Kinematic viscosity:** 1400 mPas

**Boiling point/range°C:** 150

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

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

**upper:** No data available.

**Flash point°C:** 160

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

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

**Vapour pressure:** No data available.

**Relative density:** 1.130

**pH:** No data available.

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

### 9.2. Other information

**Other information:** Not applicable.

## 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.

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### 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.

### 10.5. Incompatible materials

**Materials to avoid:** Strong oxidising agents. Strong acids.

### 10.6. Hazardous decomposition products

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

## Section 11: Toxicological information

### 11.1. Information on toxicological effects

#### Toxicity values:

Route	Species	Test	Value	Units
DERMAL	RAT	LD50 (ATE)	> 2000	mg/kg
ORAL	RAT	LD50 (ATE)	1870	mg/kg
VAPOURS	RAT	4H LC50 (ATE)	10.65	mg/l

#### Hazardous ingredients:

##### HEXAMETHYLENE-1,6-DIISOCYANATE HOMOPOLYMER

DERMAL	RAT	LD50	> 2000	mg/kg
DERMAL	RBT	LD50	> 2000	mg/kg
ORAL	RAT	LD50	> 2500	mg/kg

##### CYCLOHEXYLDIMETHYLAMINE

DERMAL	RAT	LD50	380	mg/kg
ORAL	RAT	LD50	272 - 289	mg/kg
VAPOURS	RAT	4H LC50	1.7 - 5.8	mg/l

##### HEXAMETHYLENE-DI-ISOCYANATE

IVN	MUS	LD50	5600	µg/kg
ORL	MUS	LD50	350	mg/kg
ORL	RAT	LD50	710	µl/kg

#### Relevant hazards for product:

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	INH ING	Hazardous: calculated

[cont...]

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Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated
Respiratory/skin sensitisation	DRM	Hazardous: calculated
STOT-single exposure	INH	Hazardous: calculated

#### Symptoms / routes of exposure

**Skin contact:** There may be irritation and redness at the site of contact. There may be redness or whiteness of the skin in the area of exposure. Severe burns may occur. An itchy rash may occur at the site of contact. There may be mild irritation at the site of contact.

**Eye contact:** There may be pain and redness. The eyes may water profusely. There may be severe pain. The vision may become blurred. May cause permanent damage.

**Ingestion:** There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting and diarrhoea.

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing. Drowsiness or mental confusion may occur.

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

**Other information:** Not applicable.

#### Section 12: Ecological information

##### 12.1. Toxicity

###### Hazardous ingredients:

###### HEXAMETHYLENE-1,6-DIISOCYANATE HOMOPOLYMER

Danio rerio (zebra fish)	96H LC50	22	mg/l
Daphnia magna	48H EC50	> 100	mg/l
Scenedesmus Subspicatus	72H ErC50	> 77.4	mg/l

###### POLYOXYETHYLENE TRIDECYL ETHER PHOSPHATE

Daphnia magna	48H EC50	10	mg/l
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###### CYCLOHEXYLDIMETHYLAMINE

ALGAE	72H ErC50	2	mg/l
Daphnia magna	48H EC50	75	mg/l
FISH	96H LC50	22 - 46	mg/l

##### 12.2. Persistence and degradability

**Persistence and degradability:** Biodegradable.

[cont...]



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### 12.3. Bioaccumulative potential

**Bioaccumulative potential:** No bioaccumulation potential.

### 12.4. Mobility in soil

**Mobility:** Readily absorbed into soil.

### 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:** Harmful to aquatic organisms. Harmful to soil organisms. Harmful to flora.

## Section 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal operations:** Transfer to a suitable container and arrange for collection by specialised disposal company. Physico-chemical treatment not specified elsewhere in this Annex which results in final compounds or mixtures which are discarded by means of any of the other possible disposal operations (e.g. evaporation, drying, calcination, etc.).

**Recovery operations:** Not applicable.

**Disposal of packaging:** Dispose of in a regulated landfill site or other method for hazardous or toxic wastes.

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

## Section 14: Transport information

**Transport class:** This product does not require a classification for transport.

## 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

## 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:** H226: Flammable liquid and vapour.  
H301: Toxic if swallowed.

[cont...]

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H302: Harmful if swallowed.

H311: Toxic in contact with skin.

H314: Causes severe skin burns and eye damage.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H318: Causes serious eye damage.

H319: Causes serious eye irritation.

H331: Toxic if inhaled.

H332: Harmful if inhaled.

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335: May cause respiratory irritation.

H411: Toxic to aquatic life with long lasting effects.

H412: Harmful 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.