

# MATERIAL SAFETY DATA SHEET

402 12 +col.ref.

## Pebbletex PU – Part A



### SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR PREPARATION AND THE COMPANY

Product Name: **PEBBLETEx PU – PART A**  
 Company Name: Polycote UK  
 Centre Point • Wolseley Road  
 Woburn Road Industrial Estate  
 Kempston • Beds MK42 7EF  
 Telephone Number: 01234 846400

### SECTION 2: HAZARDS IDENTIFICATION

Classification (EC 1272/2008)  
 Physical and Chemical Hazards: Not classified.  
 Human health: Not classified.  
 Environment: Not classified.  
 Label elements: No pictogram required.  
 Precautionary Statements:  
 P103 Read label before use.  
 P350 Gently wash with plenty of soap and water.  
 P402+404 Store in a dry place. Store in a closed container.  
 P501 Dispose of contents/container in accordance with national regulations.

### SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

No information on ingredients available.

### SECTION 4: FIRST AID MEASURES

General: Remove affected person from source of contamination.  
 Inhalation: Move the exposed person to fresh air at once.  
 Ingestion: DO NOT induce vomiting. Get medical attention immediately.  
 Skin contact: Remove contaminated clothing immediately and wash skin with soap and water.  
 Eye contact: Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Seek medical attention and bring along these instructions.  
**Most important symptoms and effects, both acute and delayed:**  
 General: The severity of the symptoms described will vary dependant of the concentration and the length of exposure.  
 Inhalation: No specific symptoms noted.  
 Ingestion: May cause discomfort if swallowed.  
 Skin contact: Prolonged skin contact may cause redness and irritation.  
 Eye contact: Irritating and may cause redness and pain.

### SECTION 5: FIRE FIGHTING MEASURES

Extinguishing media: Extinguish with foam, carbon dioxide, dry powder or water fog.  
 Unsuitable media: Do not use water jet as an extinguisher, as this will spread the fire.  
 Haz. com. products: In case of fire, toxic gases (CO, CO<sub>2</sub>, NO<sub>x</sub>) may be formed.  
 Specific hazards: In case of fire, toxic gases may be formed (CO<sub>x</sub>, NO<sub>x</sub>).  
 Advice for firefighters: Use water SPRAY only to cool containers! Do not put water on leaked material. Self contained breathing apparatus and full protective clothing must be worn in case of fire.


### SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions: See section 8 for further information.  
 Environmental precautions: Do not discharge onto the ground or into water courses.  
 Methods for cleaning up: Absorb spillage with suitable absorbent material.

### SECTION 7: HANDLING AND STORAGE

Safe Handling: Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site.  
 Safe Storage: Store in closed original container at temperatures between 5°C and 25°C.  
 Storage class: Chemical storage.

### SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Protective equipment:   
 Process conditions: Use engineering controls to reduce air contamination to permissible exposure level.  
 Engineering measures: Provide adequate ventilation.  
 Respiratory equipment: If ventilation is insufficient, suitable respiratory protection must be provided. In case of inadequate ventilation or risk of inhalation of vapours, use suitable respiratory equipment with combination filter (type A2/P3).  
 Hand protection: Nitrile gloves are recommended, but be aware that the liquid may penetrate the gloves. Frequent change is advisable. For exposure of 4 to 8 hours use gloves made of: Viton rubber (fluor rubber).  
 Eye protection: Goggles/face shield are recommended.  
 Skin protection: Wear apron or protective clothing in case of splashes.  
 Other protection: Wear suitable protective clothing as protection against splashing or contamination.  
 Hygiene measures: Wash hands after handling.

### SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

Odour: Characteristic  
 Relative density: 20c

### SECTION 10: STABILITY AND REACTIVITY

Reactivity: No hazardous reactions if stored and handled as prescribed/indicated.  
 Chemical stability: Stable under normal temperature conditions.  
 Conditions to avoid: Avoid frost.  
 Incompatible materials: Strong acids. Strong alkalis.  
 Haz. decomp. products: None under normal conditions.

### SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity: No data available.

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**SECTION 12: ECOLOGICAL INFORMATION**

Toxicity:	No data available.
Persistence and degradability:	No data is available on this product.
Bioaccumulative potential:	No data is available on this product.
Mobility:	The product contains volatile organic compounds (VOC) which will evaporate easily from all surfaces.
PBT and vPvB assessment:	This product does not contain any PBT or vPvB substances.

**SECTION 13: DISPOSAL CONSIDERATIONS**

General information:	Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority.
Waste treatment methods:	Dispose of waste and residues in accordance with local authority requirements. Do not allow runoff to sewer, waterway or ground.

**SECTION 14: TRANSPORT INFORMATION**

Further information:	Classification for transport purposes. Where no specific information is given the material is classed as non hazardous for transport.
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**SECTION 15: REGULATORY INFORMATION****UK Regulatory References:**

The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments.

**Environmental Listing:**

Control of Pollution Act 1974.

**Statutory Instruments:**

Control of Substances Hazardous to Health.

**Approved Code Of Practice:**

Classification and Labelling of Substances and Preparations Dangerous for Supply.

**EU Legislation:**

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

**SECTION 16: OTHER INFORMATION**

All the foregoing information should be regarded as being applicable to the uncured mixed product as well as to the individual components.

This material may form part of a multi component pack, and is supplied in the correct proportions for that pack. Please check all of the product labels to ensure that the correct components and pack sizes are being used. Select and use appropriate pack sizes to minimise waste and operator exposure, do not split packs. Use in batch order.

The Safety Data above is applicable to the product only as used according to the purposes and methods described on the relevant Technical Data Sheet, available from Polycote UK on request.

The information above is based on our present knowledge and is believed to be correct but does not purport to be all inclusive and should only be used as a guide. No warranty is implied with respect to the specification of the product. It is intended to describe the product solely in terms of its safety requirements and relates only to the specific material designed and may not be valid for such material used in combination with any other materials or in any process. This data does not constitute the users own assessment of workplace risk as required by other Health and Safety legislation, nor is it a sales specification or indication of suitability for any particular use. The user must satisfy himself as to the suitability of the product for his purpose. No legally valid contractual relationship is established by the above data, and Polycote UK shall not be held liable for any damage resulting from handling or from contact with the above product.

Date of Issue: August 2015

**Polycote UK**

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Technical Helpline: 01234 846400

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# MATERIAL SAFETY DATA SHEET

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## Pebbletex PU – Part B



### SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR PREPARATION AND THE COMPANY

Product Name: **PEBBLETEx PU – PART B**  
 Company Name: Polycote UK  
 Centre Point • Wolseley Road  
 Woburn Road Industrial Estate  
 Kempston • Beds MK42 7EF  
 Telephone Number: 01234 846400

### SECTION 2: HAZARDS IDENTIFICATION

Classification EC 1272/2008:

Health hazards: 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

Hazard pictograms:



Signal word: **Danger**  
 Hazard Statement: 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:

EUH204 Contains isocyanates. May produce an allergic reaction.  
 P260 Do not breathe vapour/spray.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P281 Use personal protective equipment as required.  
 P284 [In case of inadequate ventilation] wear respiratory protection.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P308+P313 IF exposed or concerned: Get medical advice/attention.  
 P501 Dispose of contents/container in accordance with national regulations.  
 RCH004a Persons already sensitised to diisocyanates may develop allergic reactions when using this product.  
 RCH004b Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product.  
 RCH004c 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.

Contains: DIPHENYLMETHANE-4,4'-DIISOCYANATE  
 Other hazards: This product does not contain any substances classified as PBT or vPvB.

### SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

CAS No:	EC No:	Classification	Percent
DIPHENYLMETHANE-4,4'-DIISOCYANATE			60 - 100%
101-68-8	202-966-0	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	

The full text for all hazard statements are shown in section 16.

### SECTION 4: FIRST AID MEASURES

General: Remove affected person from source of contamination.  
 Inhalation: Move affected person to fresh air at once. Get medical attention if any discomfort continues.  
 Ingestion: DO NOT induce vomiting. Get medical attention immediately.  
 Skin contact: Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.  
 Eye contact: Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing. Show this Safety Data Sheet to the medical personnel.

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

General: The severity of the symptoms described will vary dependent on the concentration and the length of exposure.  
 Inhalation: Irritation of nose, throat and airway. Coughing, chest tightness, feeling of chest pressure.  
 Ingestion: May cause discomfort if swallowed.  
 Skin: contact Prolonged skin contact may cause redness and irritation.  
 Eye: contact Severe irritation, burning and tearing.  
**Indication of any immediate medical attention and special treatment needed**  
 No specific recommendations. If in doubt, get medical attention promptly.

### SECTION 5: FIRE FIGHTING MEASURES

Extinguishing media: Extinguish with foam, carbon dioxide, dry powder or water fog.  
 Unsuitable media: Do not use water jet as an extinguisher, as this will spread the fire.  
 Specific hazards: The product is non-combustible. Irritating gases or vapours. Not known.  
 Haz. com. products: Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of carbon. Oxides of nitrogen.  
 Advice for firefighters: Containers close to fire should be removed or cooled with water. Do not allow water to contact any leaked material.  
 Special equipment: Wear chemical protective suit. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

**Polycote Pebbletex PU – Part B Cont.****SECTION 6: ACCIDENTAL RELEASE MEASURES**

- Personal precautions:** Wear protective clothing as described in Section 8 of this safety data sheet.
- Environmental precautions:** Do not discharge into drains or watercourses or onto the ground.
- Methods for cleaning up:** Absorb spillage with non-combustible, absorbent material. Absorb spillage with noncombustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely. Provide adequate ventilation. Contain spillage with sand, earth or other suitable non-combustible material. Avoid the spillage or runoff entering drains, sewers or watercourses.

**SECTION 7: HANDLING AND STORAGE**

- Safe Handling:** Avoid inhalation of vapours and spray/mists. Avoid contact with skin and eyes. Do not use in confined spaces without adequate ventilation and/or respirator. Spraying is permitted only in closed systems, spray cabinets or spray boxes with adequate ventilation.
- Safe Storage:** Store in closed original container at temperatures between 5°C and 25°C.
- Storage class:** Chemical storage.

**SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION**

- Exposure Limit Values:**  
 Long-term exposure limit (8-hour TWA): WEL 0.02 mg/m<sup>3</sup>(Sen)  
 Short-term exposure limit (15-minute): WEL 0.07 mg/m<sup>3</sup>(Sen)  
 DIPHENYLMETHANE-4,4'-DIISOCYANATE  
 Long-term exposure limit (8-hour TWA): WEL 0.02 mg/m<sup>3</sup>(Sen)  
 Short-term exposure limit (15-minute): WEL 0.07 mg/m<sup>3</sup>(Sen)  
 WEL = Workplace Exposure Limit

**Exposure controls:**

- Engineering controls:** Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients.
- Eye/face protection:** Wear chemical splash goggles.
- Hand protection:** It is recommended that gloves are made of the following material: Nitrile rubber. It should be noted that liquid may penetrate the gloves. Frequent changes are recommended. For exposure up to 8 hours, wear gloves made of the following material: Nitrile rubber.
- Other protection:** Wear suitable protective clothing as protection against splashing or contamination. Wear apron or protective clothing in case of contact.
- Hygiene measures:** Use engineering controls to reduce air contamination to permissible exposure level. Wash hands after handling. When using do not eat, drink or smoke.
- Respiratory protection:** If ventilation is inadequate, suitable respiratory protection must be worn. If ventilation is inadequate, suitable respiratory protection must be worn. Wear a respirator fitted with the following cartridge: Combination filter, type A2/P3.
- Exposure controls:** Keep container tightly sealed when not in use.

**SECTION 9: PHYSICAL & CHEMICAL PROPERTIES**

- State:** Liquid  
**Colour:** Brown  
**Odour:** Musty (mouldy)  
**Melting point:** <10°C  
**Initial boiling point:** 330°C @ mbar  
**Flash point:** >200°C CC (closed cup)  
**Evaporation rate:** Slow  
**Vapour pressure:** 0.01 Pa @ 20°C  
**Vapour density:** 8.5  
**Relative density:** 1.24 @ 20°C  
**Auto-ignition temp:** >600°C  
**Viscosity:** 90-130 mPa s @ 25°C

**SECTION 10: STABILITY AND REACTIVITY**

- Reactivity:** The product will harden into a solid mass in contact with water and moisture.
- Chemical stability:** Stable at normal ambient temperatures and when used as recommended.
- Hazardous reaction:** Not applicable. May polymerise.
- Conditions to avoid:** Avoid contact with water.
- Hazardous decomposition products:**  
 Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of carbon. Oxides of nitrogen.

**SECTION 11: TOXICOLOGICAL INFORMATION**

- Acute toxicity - oral**  
 Acute toxicity oral (LD<sub>50</sub>mg/kg) 10,000.0  
 Species Rat
- Acute toxicity - dermal**  
 Acute toxicity dermal (LD<sub>50</sub>mg/kg) 10,000.0  
 Species Rabbit
- Acute toxicity - inhalation**  
 Acute toxicity inhalation (LC<sub>50</sub>vapours mg/l) 0.493  
 Species Rat
- ATE inhalation (gases ppm) 4,500.0  
 ATE inhalation (vapours mg/l) 11.0  
 ATE inhalation (dusts/mists mg/l) 1.5
- Skin corrosion/irritation**  
 Animal data Irritating.  
 Respiratory sensitisation Sensitising.
- Carcinogenicity**  
 Carcinogenicity Suspected carcinogen based on limited evidence.  
 Target organ for carcinogenicity No specific target organs known.  
 Reproductive toxicity - development This substance has no evidence of toxicity to reproduction.
- Specific target organ toxicity - repeated exposure**  
 STOT - repeated exposure Morphological changes that are potentially reversible but provide clear evidence of marked organ dysfunction.
- Aspiration hazard**  
 Not anticipated to present an aspiration hazard, based on chemical structure.
- Inhalation**  
 Irritating to respiratory system. May cause sensitisation by inhalation.
- Ingestion**  
 May cause stomach pain or vomiting.
- Skin contact**  
 Irritating to skin. May cause sensitisation by skin contact.
- Eye contact**  
 Irritation of eyes and mucous membranes.
- Acute and chronic health hazards**  
 May cause sensitisation by skin contact. The product contains small quantities of isocyanate. May cause respiratory allergy. May cause respiratory system irritation. Frequent inhalation of vapours may cause respiratory allergy.
- Route of entry**  
 Inhalation Skin and/or eye contact.
- Medical symptoms**  
 Irritation of eyes and mucous membranes. Coughing, chest tightness, feeling of chest pressure.
- Medical considerations**  
 Chronic respiratory and obstructive airway diseases.

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**SECTION 12: ECOLOGICAL INFORMATION**

Ecotoxicity:	The product is not expected to be hazardous to the environment.
<b>Toxicity:</b>	
Acute toxicity - fish	LC50, 96 hours, 96 hours: > 1000 mg/l, Freshwater fish
Acute toxicity - aquatic	EC <sub>50</sub> , 48 hours: >500 mg/l, Daphnia magna invertebrates
Acute toxicity - aquatic plants	EC <sub>50</sub> , 72 hours, 72 hours: ~ 1640 mg/l, Scenedesmus subspicatus
<b>Persistence and degradability</b>	
Persistence and degradability	The product is not readily biodegradable.
Stability (hydrolysis)	Reacts with water.
Biological oxygen demand	< 10 g O <sub>2</sub> /g substance
<b>Bioaccumulative potential</b>	
Bioaccumulative potential	The product does not contain any substances expected to be bioaccumulating.
Partition coefficient	Not available.
<b>Mobility in soil</b>	
Mobility	The product is non-volatile.
<b>Results of PBT and vPvB assessment</b>	
PBT and vPvB assessment	This product does not contain any substances classified as PBT or vPvB.

**SECTION 13: DISPOSAL CONSIDERATIONS**

<b>Waste treatment methods</b>	
General information:	Waste should be treated as controlled waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.
Disposal methods	Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.
Waste class:	070208

**SECTION 14: TRANSPORT INFORMATION**

General:	The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).
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**SECTION 15: REGULATORY INFORMATION**

National regulations	Health and Safety at Work etc. Act 1974 (as amended).
EU legislation	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).
Guidance Isocyanates:	Health hazards and precautionary measures EH16.
Chemical safety assessment:	No chemical safety assessment has been carried out.

**SECTION 16: OTHER INFORMATION**

Text of Hazard Statements in Section 3:	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.
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Date of Issue: August 2015

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