

# MATERIAL SAFETY DATA SHEET

## Pebbletex - Part A



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

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

### SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

**Product Material:** This product is based on naturally occurring triglyceride oil derived from the Castor Oil bean, blended with synthetic resin.

Fatty Acid Distribution:	Concentration
Palmitic Acid	1-2%
Stearic Acid	1-2%
Oleic Acid	3-7%
Linoleic Acid	1-2%
Ricinoleic Acid	40-65%

### SECTION 3: HAZARDS IDENTIFICATION

Hazard warning is not required

### SECTION 4: FIRST AID MEASURES

Eyes: Rinse open eye under running water for several minutes.  
 Skin: Remove contaminated clothing and flush with water.  
 Inhalation: Remove from contaminated atmosphere.  
 Ingestion: If swallowed give large quantities of water or milk. Do not induce vomiting. Seek medical advice.

### SECTION 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Foam, Powder, Carbon Dioxide  
 Unsuitable Extinguishing Media: Do not use water  
 Special Exposure Hazards:  
 Protective Equipment for Fire-fighting:

### SECTION 6: ACCIDENTAL RELEASE MEASURES

No special procedures are necessary.

### SECTION 7: HANDLING AND STORAGE

Presents no special hazards.

### SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Occupational Exposure:  
 Engineering Controls:  
 Personal Protective Equipment  
 Eye Protection: Safety glasses or goggles  
 Skin Protection: Protective overalls  
 Hand Protection: Impervious gloves  
 Respiratory Protection:

### SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

Appearance: Green / Yellowish  
 Odour: Nearly odourless  
 pH: N/A  
 Boiling Point/ Range: > 300°C  
 Melting Point/ Range: Not determined  
 Flash Point: > 300°C  
 Flammability: Not determined  
 Auto-flammability: 395°C  
 Explosive Properties: N/A  
 Oxidising Properties: N/A  
 Vapour Pressure: Not determined  
 Relative Density: Approx. 1.65 g/cm<sup>3</sup> at 20°C  
 Water Solubility: Insoluble  
 Fat Solubility: Not determined  
 Viscosity: Approx. 150cPs at 20°C

### SECTION 10: STABILITY AND REACTIVITY

Stability: Stable under normal conditions  
 Conditions to Avoid:  
 Materials to Avoid:  
 Hazardous Decomposition products:  
 Hazardous Polymerisation: Will not occur

### SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity: Oral: LD50: >5000 mg/kg (rat)  
 Skin: 24hr, no findings (rabbit)  
 Eyes: no findings  
 While using the usual acceptable occupational hygiene precautions, no adverse effects have been encountered, or are to be expected with products of this class.

### SECTION 12: ECOLOGICAL INFORMATION

Mobility: Not determined  
 Degradability: Not determined  
 Bioaccumulative Potential: Not determined  
 Ecotoxicity: Do not allow to enter into drinking water supplies, wastewater or soil.

### SECTION 13: DISPOSAL CONSIDERATIONS

Product Disposal: Remove according to local authority recommendations. Use licensed waste disposal contractor.  
 Container Disposal: Remove according to local authority recommendations. Use licensed waste disposal contractor.

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### SECTION 14: TRANSPORT INFORMATION

Not Classified as hazardous for Transport.

### SECTION 15: REGULATORY INFORMATION

No labelling requirements

### SECTION 16: OTHER INFORMATION

User Notes: This product should be used in accordance with the suppliers recommendations.

Information Sources: CHIP Approved Supply List  
CHIP Approved Guide to the Classification and Labelling of Substances and Preparations Dangerous for Supply.  
CHIP Approved Carriage List.  
RAW Material Suppliers Literature.  
Occupational Exposure Limits (EH40)

PRODUCT CLASSIFIED AND SAFETY DATA SHEET PRODUCED ACCORDING TO EEC DIRECTIVES AS IMPLEMENTED IN THE UK BY THE CHEMICALS (HAZARDS INFORMATION AND PACKAGING) REGULATIONS 1994.

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: September 2005

### Polycote UK

Centre Point • Walseley Road • Woburn Road Industrial Estate  
Kempston • Beds • MK42 7EF  
Technical Helpline: 01234 846400

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# MATERIAL SAFETY DATA SHEET

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## Pebbletex - Part B



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

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

### SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

#### Hazardous Components: Chemical Name

CAS No.	Classification	Conc.
4,4' - Diphenylmethane-diisocyanate		
9016-87-9	R20/21/22 R36/37/38	60%
Isomers and Homologues R42/43		

### SECTION 3: HAZARDS IDENTIFICATION

Eyes: May cause irritation.  
 Skin: May cause irritation and possible sensitisation by skin contact.  
 Ingestion: Harmful  
 Inhalation: Harmful by inhalation, irritating to respiratory system.  
 Delayed Effects: Skin sensitisation upon prolonged or regular contact.  
 Environment: Not determined

### SECTION 4: FIRST AID MEASURES

Eyes: Rinse open eye under running water for several minutes. Seek medical attention.  
 Skin: Remove contaminated clothing, immediately flush with plenty of water. Seek medical advice.  
 Inhalation: Remove from contaminated atmosphere if there is breathing difficulty seek medical attention.  
 Ingestion: If swallowed do not induce vomiting, Seek medical advice.

### SECTION 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Foam, Powder, Carbon Dioxide or water spray.  
 Unsuitable Extinguishing Media: Water with a full water jet.  
 Special Exposure Hazards: Do not breathe smoke as may give off toxic fumes including carbon monoxide, nitrogen oxide, isocyanate vapour and traces of hydrogen cyanide  
 Do not discharge extinguishing media into streams, rivers or lakes.  
 Protective Equipment for Fire-fighting: Wear self-contained breathing apparatus and full protective clothing.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear appropriate protective clothing (refer to section 8).  
 Environmental Precautions: Prevent entering all drains, sewers and watercourses.  
 Clean-up Procedures: Remove mechanically; cover residues with chemical binder or, if necessary with wet sand sawdust or other absorbent material. After approximately 1 hour transfer to waste container and do not seal (evolution of CO<sub>2</sub>). Keep damp in safe ventilated area for several days.

### SECTION 7: HANDLING AND STORAGE

Handling: Avoid contact with skin and eyes (refer to section 8 for appropriate protective clothing). Wash thoroughly after handling.  
 Conditions for storage: Keep in tightly sealed containers and store in a cool, dry place, avoiding exposure to heat, light, moisture and air.

### SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Occupational Exposure: Maximum exposure limit 0.02 mg/m<sup>3</sup> (8-hr average value).  
 Short term exposure limit 0.07 mg/m<sup>3</sup> (10-min. average value).  
 Any existing national regulations for handling of isocyanates must be observed.  
 Engineering Controls: If airborne contaminants are generated when the material is heated or handled, sufficient ventilation in volume and air flow patterns should be provided to keep air contaminant concentrations below acceptable levels.  
 Personal Protective Equipment:  
 Eye Protection: Safety glasses or goggles  
 Skin Protection: Protective overalls  
 Hand Protection: Impervious gloves  
 Respiratory Protection: Respiratory protection equipment if there is not adequate ventilation. Air fed mask or for short periods a combination of charcoal and particulate filter is recommended.

### SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

Appearance: Dark Brown  
 Odour: Earthy, musty.  
 pH: N/A  
 Boiling Point/ Range: Not determined  
 Melting Point/ Range: Not determined  
 FlashPoint: > 200°C  
 Flammability: Non - flammable liquid  
 Auto-flammability: > 400°C  
 Explosive Properties: N/A  
 Oxidising Properties: N/A  
 Vapour Pressure: Below 0.0001hPa @ 250°C  
 Relative Density: Approximately 1.23 g/cm<sup>3</sup> at 20°C  
 Water Solubility: Insoluble - reacts  
 Fat Solubility: Not determined  
 Viscosity: Approximately 130 mPa.s at 20°C

### SECTION 10: STABILITY AND REACTIVITY

Stability: Stable under normal conditions  
 Conditions to Avoid: Keep cool and dry  
 Materials to Avoid: Exothermic reaction with amines and alcohols; reacts with water forming CO<sub>2</sub>, in closed containers risk of bursting owing to increased pressure.  
 Hazardous Decomposition products: No hazardous decomposition products when handled and stored correctly.  
 Hazardous Polymerisation: Will not occur.

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**SECTION 11: TOXICOLOGICAL INFORMATION**

Acute Toxicity: Oral: LD50: 15000 mg/kg (rat)  
 Inhalation: LD50: approx. 370 mg as aerosol/m<sup>3</sup>, 4 hr of exposure (rat)  
 Concentration of the saturated vapour of 4,4-MDI at 25°C: 0,09 mg/m<sup>3</sup>

Eyes: Strong irritation, lachrymation, burning  
 Skin: De-hydration. May cause sensitisation by skin contact.  
 Inhalation: May cause irritation of nose, throat and lungs.  
 Ingestion: May be harmful if accidentally swallowed.  
 Special properties/ effects: Over-exposure, entails the risk of concentration-dependant irritating effects on eyes, nose throat and respiratory tract. Delayed appearance of the complaints and development of hypersensitivity (difficult breathing, coughing, and asthma) are possible. Hypersensitive people may suffer from these effects even at low isocyanate concentrations. In case of longer contact with skin, tanning and irritating effects are possible.

**SECTION 12: ECOLOGICAL INFORMATION**

Mobility: Not determined  
 Degradability: Not determined  
 Bioaccumulative Potential: Not determined  
 Ecotoxicity: Aquatic toxicity to bacteria, algae and higher marine organisms not tested.

**SECTION 13: DISPOSAL CONSIDERATIONS**

Product Disposal: Remove according to local authority recommendations. Use licensed waste disposal contractor.  
 Container Disposal: Remove according to local authority recommendations. Use licensed waste disposal contractor. Do not reuse containers without commercial cleaning.

**SECTION 14: TRANSPORT INFORMATION**

Not a dangerous cargo. Irritating to skin and mucous membranes. Slightly sensitive to frost. Avoid heat above 50°C. Keep away from foodstuffs, acids and alkalis.

**SECTION 15: REGULATORY INFORMATION**

Label Information: 4,4' - Diphenylmethane-diisocyanate  
 Xn Harmful.

Risk Phrases: R20/21/22 Harmful by inhalation.  
 R36/37/38 Irritating to eyes, respiratory system and skin.  
 R42/43 May cause sensitisation by inhalation and skin contact.

Safety Phrases: S2 keep out of reach of children.  
 S26 in case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
 S28 After contact with skin, wash immediately with plenty of soap and water.  
 S36/37/39 Wear suitable protective clothing, gloves and eye/ face protection.  
 S38 In case of insufficient ventilation wear suitable respiratory equipment.  
 S45 In case of accident or if the patient feels unwell seek medical advice immediately (show the label where possible).

**SECTION 16: OTHER INFORMATION**

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