

SAFETY DATA SHEET

REF No. PUSEAL/2

Issued Nov 06

PAGE 1 OF 4

1. PRODUCT AND COMPANY IDENTIFICATION:

TRADE NAME: FLEXCRETE PU SEALANT**DESCRIPTION:** One component, gun grade polyurethane sealant which cures on exposure to atmospheric moisture to form a permanently elastomeric seal.**COMPANY:** Flexcrete Technologies Limited, Tomlinson Road, Leyland, Lancashire, PR25 2DY, England.**EMERGENCY TELEPHONE NUMBER: +44 (0) 845 260 7005**

2. COMPOSITION/INFORMATION ON INGREDIENTS:*

SUBSTANCES PRESENTING A HEALTH HAZARD WITHIN THE MEANING OF THE CHEMICALS (HAZARD INFORMATION & PACKAGING) REGULATIONS 1994.

INGREDIENT	CONCENTRATION %	CAS NUMBER	HAZARD	R. PHRASES
Toluene	< 5	108-88-3		
Diphenylmethane-4,4-di isocyanate	< 0.25	101-68-8		

3. HAZARD IDENTIFICATION:

Not classified as hazardous at above concentrations.

The ventilation of areas close to the application area must be considered in the same way as that of the immediate work area. Do not allow fumes into open windows or ventilation systems.

4. FIRST AID MEASURES:

INHALATION: Remove patient from exposure, keep warm and at rest. If distress is felt after inhalation of vapours, summon medical aid.**SKIN CONTACT:** Remove contaminated clothing. After contact with skin, wash immediately with plenty of soap and water, or use a proprietary skin cleaner.**EYE CONTACT:** In case of contact with eyes, rinse immediately with plenty of clean water and seek medical attention. (S26) Remove excess material with cotton wool bud. Contact lenses should be removed. Eye wash stations should be available in areas where exposure is possible.**INGESTION:** Remove person to fresh air. Do not induce vomiting. If conscious, give plenty of water to drink. Seek medical attention.**NOTE** If symptoms persist, seek medical advice.

5. FIRE FIGHTING MEASURES:

SUITABLE EXTINGUISHER MEDIA: Foam - CO₂ - Powder - Halon - Waterspray. Do not use water jet, a solid stream of water directed into hot, burning liquid can cause splattering.**EXPOSURE HAZARDS:** In a fire, hazardous decomposition products, such as smoke, carbon monoxide, carbon dioxide, oxides of nitrogen, hydrogen cyanide, amines and alcohols may be produced.**SPECIAL PROTECTIVE EQUIPMENT:** Wear self-contained breathing apparatus.

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6. ACCIDENTAL RELEASE MEASURES:

- PERSONAL PRECAUTIONS:** Ensure adequate ventilation.
Wear suitable protective clothing, gloves and eye/face protection (S36/37/39).
SEE "EXPOSURE CONTROLS/PERSONAL PROTECTION"
- ENVIRONMENTAL PRECAUTIONS:** If material enters drains or sewers, contact the local Water Company immediately.
In case of contamination of streams, river or lakes, contact the National Rivers Authority.
- CLEANING UP METHODS:** Soak up with sand or sawdust.
Transfer to marked containers to await disposal.
Wash away any residue with detergent.
SEE "DISPOSAL CONSIDERATIONS" and "STABILITY AND REACTIVITY"

7. HANDLING AND STORAGE:

- HANDLING:** Wear suitable protective clothing, gloves and eye/face protection (S36/37/39)
The normal precautions relating to handling chemicals must be observed.
Ensure adequate ventilation to keep the airborne concentrations below the recommended exposure limits
SEE "EXPOSURE CONTROLS/PERSONAL PROTECTION"
- STORAGE:** Store in dry cool conditions, tightly closed in original containers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:*

WORKPLACE EXPOSURE LIMITS EH40/2005 (Check current edition of EH40 to ensure limits have not changed.)

TWA - Time Weighted Average

STEL - Short Term Exposure Limit

INGREDIENT	REFERENCE PERIOD			
	8 hour TWA		15 minutes STEL	
	ppm	mg/m ³	ppm	mg/m ³
Toluene	50	191	150	574
Diphenylmethane-4,4-di isocyanate Sen	---	---	---	---

Further information is given in Guidance Note EH 44 - Dust in the Workplace.

- RESPIRATORY:** Normal conditions of ventilation are usually adequate. Wear a respirator, or use local exhaust ventilation as necessary when using in confined areas with inadequate ventilation or whenever there is any risk of the exposure limits being exceeded. This applies not only to the user, but to all people who cannot be vacated from the work area.
- HAND:** Use heavy duty gloves. Gloves may degrade or be damaged according to different circumstances of use. Always ensure gloves you are using are in good condition. Barrier creams may help to protect exposed areas but are not substitutes for full physical protection. They should not be applied once exposure has occurred.
- EYE:** Eye protection designed to protect against liquid splashes, conforming to EN 1166 Chemical Grade, should be worn.
- SKIN:** Wear suitable overalls. Remove grossly contaminated clothing and wash skin with plenty of soap and water. Practice good personal hygiene.

ALL PERSONAL PROTECTION EQUIPMENT MUST BE SELECTED TO MEET THE REQUIREMENTS OF THE COSHH REGULATIONS.

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9. PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE:	various colours of paste	RELATIVE DENSITY:	1.18
ODOUR:	slightly aromatic	VAPOUR PRESSURE:	21 mbar
pH:	7	SOLUBILITY IN WATER:	not soluble
BOILING POINT:	100°C	AUTOIGNITION TEMPERATURE:	>250°C

10. STABILITY AND REACTIVITY:

STABLE UNDER NORMAL CONDITIONS OF STORAGE (SEE "HANDLING AND STORAGE")

CONDITIONS TO AVOID: Reacts with atmospheric moisture.

MATERIALS TO AVOID: Keep away from oxidising agents and strongly alkaline and strongly acidic materials.

HAZARDOUS DECOMPOSITION PRODUCTS: In a fire, hazardous decomposition products, such as smoke, carbon monoxide, carbon dioxide, oxides of nitrogen, hydrogen cyanide, amines and alcohols may be produced.

HAZARDOUS POLYMERISATION: The product reacts slowly with water, resulting in the evolution of carbon dioxide.

11. TOXICOLOGICAL INFORMATION:

THIS IS NOT A FULLY TESTED PRODUCT, BUT ASSESSMENT OF THE HAZARDOUS SUBSTANCES SUGGESTS THE FOLLOWING RISKS:

INHALATION: Some individuals may already be sensitive to traces of isocyanates, giving rise to asthma-like symptoms. It is unlikely that the levels of isocyanate present in the product would cause sensitisation of the respiratory system. Irritation of the mucus membrane and respiratory system may occur on prolonged exposure to product.

SKIN: Irritation of skin may occur on prolonged or repeated exposure to product.

EYE: May cause irritation to eyes.

INGESTION: Could cause blockage of the intestinal tract.

NOTE: COSHH Regulations require that persons exposed to isocyanates are subject to appropriate health surveillance.

The engineering controls and personal protection equipment advised in this Safety Data Sheet are to ensure the occupational exposure limits are not exceeded. Should this happen to anyone within the affected area, there could be delayed adverse health effects.

12. ECOLOGICAL INFORMATION:

Product should not be disposed of into rivers or other water courses without pre-treatment. Attention must be paid to local water treatment regulations.

13. DISPOSAL CONSIDERATIONS:

The product is not classified as hazardous waste and is suitable for controlled waste site disposal. Do not allow into drains or water courses or dispose of where ground or surface waters may be affected. Large quantities should first be reacted with water.

DISPOSE OF IN ACCORDANCE WITH LOCAL AND NATIONAL REGULATIONS

Further information on disposal methods and contractors is available from the National Association of Waste Disposal Contractors.

Tel: 020 7824 8882

Fax: 020 7824 8753

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14. TRANSPORT INFORMATION:

CONVEYANCE CLASSIFICATION: Not classified

15. REGULATORY INFORMATION:*

EC HAZARD CLASSIFICATION: Not classified

RISK PHRASES: None.

SAFETY PHRASES: None.

OCCUPATIONAL EXPOSURE LIMITS AND STANDARDS ARE ADVISED IN PUBLICATION EH40 FROM THE HSE FOR THE PURPOSE OF REGULATION 7(1) OF THE COSHH REGULATIONS.

16. OTHER INFORMATION:

TRAINING ADVICE: The user should be trained to handle the products and be fully aware of the reactions and hazards, particularly those relating to isocyanates. The normal precautions relating to handling chemicals must be observed.

RECOMMENDED USES: Sealing expansion and construction joints.

COMPILED BY: C.G. Lloyd, Director

DATA SOURCES: EH40/2005 Occupational Exposure Limits 2005.
HSE Guidance Note EH44; Dust in the Workplace: General Principles of Protection.
Control of Substances Hazardous to Health Regulations 1995.

THIS SAFETY DATA SHEET FOLLOWS THE REQUIREMENTS OF DIRECTIVE 93/112/EC. THE INFORMATION CONTAINED HEREIN IS CORRECT TO THE BEST OF OUR KNOWLEDGE AT THE DATE OF PUBLICATION AND NO LIABILITY CAN BE ACCEPTED FOR ANY LOSS, INJURY OR DAMAGE RESULTING FROM ITS USE. IT IS INTENDED AS A GUIDE FOR THE SAFE HANDLING, STORAGE AND USE UNDER NORMAL CONDITIONS, BUT IT DOES NOT NECESSARILY REFER TO THE PARTICULAR REQUIREMENT OF THE CUSTOMER WHEN FURTHER ADVICE SHOULD BE OBTAINED.