

SAFETY DATA SHEET

REF No. MSIL/2

Issued Nov 06

PAGE 1 OF 4

1. PRODUCT AND COMPANY IDENTIFICATION:

TRADE NAME: MONOSIL**DESCRIPTION:** Concentrated mixture of silane, siloxane and synthetic resins to impart water and oil repellency into inorganic building substrates.**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
Silicic acid, diethoxyoctylsilyl trimethylsilyl ester	< 5	216689-57-5		
Triethoxyoctylsilane	< 5	2943-75-1	Xi	R38
Dimethyl siloxane with aminoethylaminopropyl silsesquioxane, hydroxy-term	< 0.5	68554-54-1	Xi	R36/38

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.

S24-23(S)-29 see section 15

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 clean water.**EYE CONTACT:** In case of contact with eyes, rinse immediately with plenty of clean water. Contact lenses should be removed. Seek medical attention if irritation persists. Eye wash stations should be available in areas where exposure is possible.**INGESTION:** No first aid should be needed.

5. FIRE FIGHTING MEASURES:

SUITABLE EXTINGUISHER MEDIA: Carbon dioxide, foam, dry powder or fine water spray. Water can be used to cool fire exposed containers.**EXPOSURE HAZARDS:** None known.**SPECIAL PROTECTIVE EQUIPMENT:** In a sustained fire, self contained breathing apparatus should be worn.

MONOSIL

Flexcrete Technologies Limited
Tomlinson Road, Leyland,
Lancashire, PR25 2DY, England.

Emergency Telephone Number: +44 (0) 845 260 7005

6. ACCIDENTAL RELEASE MEASURES:

- PERSONAL PRECAUTIONS:** Wear suitable protective clothing, gloves and eye/face protection (S36/37/39).
SEE "EXPOSURE CONTROLS/PERSONAL PROTECTION"
- ENVIRONMENTAL PRECAUTIONS:** Prevent from spreading or entering into drains, ditches or rivers by using sand, earth or other appropriate barriers.
- CLEANING UP METHODS:** Determine the need to evacuate or isolate the area according to your local emergency plan.
Very large spills should be contained by bunding, etc, procedures.
Mop, wipe or soak up with absorbent material and place in a container with a lid. The spilled product produces an extremely slippery surface.
SEE "DISPOSAL CONSIDERATIONS" and "STABILITY AND REACTIVITY"

7. HANDLING AND STORAGE:

- HANDLING:** Wear suitable protective clothing, gloves and eye/face protection (S36/37/39).
Do not breathe spray or mist.
Eye wash stations should be available in areas where accidental exposure is possible.
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 frost free conditions, in original containers. Protect from high temperatures (40°C+) for prolonged periods.
Do not store with oxidizing agents.

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
Silic acid, diethoxyoctylsilyl trimethylsilyl ester (as ethanol)	1000	1920	---	---
Triethoxyoctylsilane (as ethanol)	1000	1920	---	---

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 when there is risk of material entering eye. Eye protection is essential when handling alkaline material.
- SKIN:** Wear suitable overalls. Remove grossly contaminated clothing and wash skin with plenty of clean water. Practice good personal hygiene.

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

MONOSIL

Flexcrete Technologies Limited
Tomlinson Road, Leyland,
Lancashire, PR25 2DY, England.

Emergency Telephone Number: +44 (0) 845 260 7005

9. PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE:	white liquid	BOILING POINT:	100°C
ODOUR:	very little	FLASH POINT:	100°C (closed cup)
AUTO IGNITION TEMPERATURE:	> 100°C	EXPLOSIVE PROPERTIES:	None
SPECIFIC GRAVITY:	1	VISCOSITY:	10 mPa.s at 25°C

10. STABILITY AND REACTIVITY:

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

CONDITIONS TO AVOID:	Protect from frost.
MATERIALS TO AVOID:	Can react with strong oxidising agents.
HAZARDOUS DECOMPOSITION PRODUCTS:	If this product is heated to >150°C, trace quantities of formaldehyde may be released and adequate ventilation is required.
HAZARDOUS POLYMERISATION:	None known.

11. TOXICOLOGICAL INFORMATION:

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

INHALATION:	No adverse effects are normally expected.
SKIN:	Irritation of skin may occur on prolonged exposure to product.
EYE:	Slightly Irritating to eyes.
INGESTION:	Small amounts transferred to the mouth by fingers during use should not injure. Swallowing large amounts may cause digestive discomfort.

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:

This product hydrolyses in water or moist air, releasing alcohols and organosilicons. No adverse effects on aquatic organisms are predicted. No bioaccumulation potential. No adverse effects on bacteria are predicted.

13. DISPOSAL CONSIDERATIONS:

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

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

MONOSIL

Flexcrete Technologies Limited
Tomlinson Road, Leyland,
Lancashire, PR25 2DY, England.

Emergency Telephone Number: +44 (0) 845 260 7005

14. TRANSPORT INFORMATION:

CONVEYANCE CLASSIFICATION: Not classified

15. REGULATORY INFORMATION:

EC HAZARD CLASSIFICATION: Not classified

RISK PHRASES: None.

As the product is not classified as hazardous there is no Regulatory Information, but the following Safety Phrases should be properly regarded.

SAFETY PHRASES:

S24	: Avoid contact with skin.
S23(S)	: Do not breathe spray.
S29	: Do not empty into drains.

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 to avoid splashing and be fully aware of the reactions and hazards. The normal precautions relating to handling chemicals must be observed.

RECOMMENDED USES: Imparting oil and water repellency to inorganic building products.

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.