

SAFETY DATA SHEET

REF No. 850/1

Issued May 05

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1. PRODUCT AND COMPANY IDENTIFICATION:

TRADE NAME: POLYMER ADMIXTURE 850**DESCRIPTION:** 50% aqueous dispersion of a copolymer based on butyl acrylate and styrene.**COMPANY:** Flexcrete Technologies Limited, Brockholes View, Preston, Lancashire,
PR1 4BH, England,**EMERGENCY TELEPHONE NUMBER:** (01772) 259477

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
Styrene	< 0.01	100-42-5		
Butyl acrylate	< 0.01	141-32-2		

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.

S2-36/37/39

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 (S28).**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:** Remove person to fresh air. Do not induce vomiting. Wash mouth out with water and, 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: Will not support combustion. Compatible with all standard fire fighting techniques.**EXPOSURE HAZARDS:** Prolonged exposure to heat will cause water to vaporise. Residue polymer will readily burn with the emission of oxides of carbon.**SPECIAL PROTECTIVE EQUIPMENT:** In a sustained fire, self contained breathing apparatus should be worn.

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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, dilute as much as possible with water.

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 plenty of clean water.

SEE "DISPOSAL CONSIDERATIONS" and "STABILITY AND REACTIVITY"

7. HANDLING AND STORAGE:

HANDLING:

Wear suitable protective clothing, gloves and eye/face protection (S36/37/39)

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.

Keep out of reach of children (S2).

Traces of flammable material can accumulate in the ullage space of closed systems and under these circumstances should be kept away from sources of ignition.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

OCCUPATIONAL EXPOSURE LIMITS EH40/2001 (Check current edition of EH40 to ensure limits have not changed.)

TWA Time Weighted Average

STEL Short Term Exposure Limit

INGREDIENT	OCCUPATIONAL EXPOSURE STANDARD (OES)				MAXIMUM EXPOSURE LIMIT (MEL)			
	REFERENCE PERIOD		REFERENCE PERIOD		REFERENCE PERIOD		REFERENCE PERIOD	
	8 hour TWA	15 minutes STEL	8 hour TWA	15 minutes STEL	8 hour TWA	15 minutes STEL	8 hour TWA	15 minutes STEL
	ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³
Styrene	---	---	---	---	100	430	250	1080
Butyl acrylate	10	53	---	---	---	---	---	---

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.

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9. PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE:	milky white liquid	RELATIVE DENSITY:	1.03 g/cm ³
ODOUR:	faint	VAPOUR PRESSURE:	23 mbar @ 20°C
pH:	7 - 8.5	SOLUBILITY IN WATER:	fully miscible
BOILING POINT:	100°C	VISCOSITY:	170 - 500 mPas
FLAMMABILITY:	dewatered polymer readily burns		

10. STABILITY AND REACTIVITY:

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

CONDITIONS TO AVOID:	Protect from frost.
MATERIALS TO AVOID:	Do not allow polymer to come into contact with metals or alloys that are liable to corrosion.
HAZARDOUS DECOMPOSITION PRODUCTS:	May contain oxides of carbon.
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:	Irritation of mucus membranes may occur on prolonged exposure to product.
SKIN:	Irritation of skin may occur on prolonged exposure to product.
EYE:	Irritating to eyes.
INGESTION:	Small amounts will cause temporary discomfort. Larger doses will coagulate and could cause blockage of the intestinal tract.

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. It can be virtually eliminated from the aqueous phase by absorption onto activated sludge. Appropriate additions of low concentrations to biological water treatment plants are not expected to cause any disturbances. 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 water courses or dispose of where ground or surface waters may be affected. Large quantities of polymer must be coagulated before disposal.

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.

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

SAFETY PHRASES: S36/37/39 : Wear suitable protective clothing, gloves and eye/face protection.

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, particularly when used with Portland cements. The normal precautions relating to handling chemicals must be observed.

RECOMMENDED USES: An admixture to enhance the properties of a sand and cement mortar.

COMPILED BY: C.G. Lloyd, Director

DATA SOURCES: EH40/2001 Occupational Exposure Limits 2001.
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.