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PRODUCT DATA & HEALTH & SAFETY INFORMATION

Issue 1
Issue Date January 26/03/1996
Revised 23/07/1999

PRODUCT NAME **MICROSILAN INJECTION FLUID**

1. IDENTIFICATION OF SUBSTANCE AND COMPANY UNDERTAKING

Masonry Damp Proof Course Injection Fluid

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2 INFORMATION ON INGREDIENTS

Chemical Description: An aqueous solution containing aminoalkylalkoxysilane and potassium methyl siliconate.

Hazardous Ingredient	% w/w	CAS	EINECS	SUPPLY CLASS
Potassium methyl Siliconate 35% aqueous	>10	31795-24-1		Corrosive R35
Aminoalkylalkoxysilane	<15	Mixture		Flammable. Harmful R10, R22.

3 HAZARDS IDENTIFICATION

Corrosive irritant to eyes and skin. Highly alkaline and corrosive if swallowed or inhaled. Risk of serious damage to the eyes.

4 FIRST AID MEASURES

Inhalation: Remove to fresh air, rest, treat symptomatically, obtain medical attention.
Skin: Remove contaminated clothing. Wash affected skin with soap and plenty of water..
Eyes: Immediately gently irrigate with clean water for at least 15 minutes. If any irritation persists, seek medical attention straight away.
Ingestion: Give one pint of water to drink as soon as possible and call for medical attention. Do NOT induce vomiting. Consult doctor as soon as possible.

5 FIRE FIGHTING MEASURES

Extinguishing Media: Water mist/spray, alcohol foam, carbon dioxide or dry chemical.
Fire/Explosion Hazards: If heated in a fire, fumes may be evolved of K20. Nitrogen products and silica.
Protective Measures: Fire fighters should wear self contained breathing apparatus and protective clothing.

6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Wear rubber gloves and boots. Wear chemical safety goggles. Wear approved type respirator.
Environmental Precautions	Do not allow to enter drains or sewers. Earth.
Recovery	Contain and absorb onto earth or sand and sweep up. Collect up into lidded polythene containers labelled as hazardous waste.

7 STORAGE AND HANDLING

Handling:	Wear rubber gloves and safety glasses or goggles.
Storage:	Keep containers sealed. Store away from strong acids.
Ventilation:	Good general ventilation, natural or mechanical.

8 EXPOSURE CONTROLS AND PERSONAL PROTECTION (NORMAL USE)

Occupational Exposure Limits

Name	8 Hr TWA	10 Min	Type	Ref
Aminoalkylalkoxysilane	200 ppm	250 ppm	OES	EH40/98
Engineering Measures	Mechanical extraction if the natural ventilation is poor.			

Personal Protective Equipment

Inhalation	In poorly ventilated area wear suitable respiratory equipment.
Hand:	Wear natural rubber gloves.
Eyes:	Wear full face shield.
Other:	Eye wash/irrigation bottle or station should be available close to the place of use.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	A pale yellow to colourless liquid
Odour	Faint amine odour
PH as delivered	14
Flash point	-
Solubility	Miscible with water, alcohols and glycols.
Other	Avoid contact with lead, zinc, tin and aluminium.

10 STABILITY AND REACTIVITY

Stability	Stable in ambient conditions.
Conditions to avoid.	Avoid working in confined spaces with poor ventilation. Keep the temperature above freezing > 4^{o}C.
Materials to avoid.	Avoid any strong acids and oxidising agents. Avoid contact with lead, zinc, tin and aluminium and their alloys.
Recommended materials For equipment	Use polyethylene or polyethylene lined vessels or pipes.
Hazardous Decomposition products	When heated to decomposition it emits acrid smoke and irritating fumes.

11 TOXILOGICAL INFORMATION

Short Term

Eyes	Causes burns; may cause permanent eye damage unless treated promptly.
Skin	Causes burns.
Ingestion	Burns and destroys tissue and is poisonous.
Inhalation	Can have harmful poisonous effects if liquid is inhaled.
Long term effects	Caution – not yet fully tested.

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12 ECOLOGICAL INFORMATION

Biodegradability	No data cited
Aquatic Toxicity	No data cited
Other	No data cited

13 DISPOSAL CONSIDERATIONS

Disposal through an authorised contractor to a licensed site. In accordance with the Control of Pollution Act 1974. Control of pollution (Special Waste) Regulations 1980 apply. Hazardous waste as defined by EC Council Directive 91/689/EEC. Disposal outside the UK in accordance with local regulations governing hazardous liquid and solid wastes

14 TRANSPORT INFORMATION

Packaging (Size and description)	4 litre	Transport Classification	CORROSIVE SUBSTANCE
Substance Identification	Number 1719		
Proper Shipping Name	Caustic alkali liquid. N.O.S.	ICAO/IATA/IMDG	Class 8
Subsidiary Risk	-	Packaging Group	11
ADR Class	8 42^{o} (b)	Transport Hazard Symbol (black on white)	Test tubes dripping onto hand, plate
Hazard Ident Number	80		
Emergency Action Code	2R		
Other	Transportation by air is subject to limitation of the IATA/ICAO code. Caustic alkali liquids N.O.S. Passenger aircraft Pkg Instr. 809 (1L). Cargo aircraft Pkg Instr. 813 (3OL)		

15 RISK AND SAFETY PHRASES

Supply Classification	CORROSIVE
Hazard Pictogram	Test tubes dripping onto hand and plate (black on orange)
Risk Phrases	R35 Causes severe burns.
Safety Phrases	S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S37/39 – Wear suitable protection clothing, gloves and eye/face protection. S45 – In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
Other Applicable Regulations	COHH regulations apply. The information contained in this safety data sheet does NOT constitute or substitute for the users own assessment of risk in their workplace.

16 OTHER INFORMATION

References: The Chemicals (Hazard Information and Packaging) Regulations, SI 1992 No. 742, SI 1980 No. 1709,. 88/379/EEC, 91/155/EEC. IMDG Code 1991 plus amendments. ADR Agreement 1993. Sax's Dangerous Properties of Industrial Materials 8th Edition 1992.

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PRODUCT DATA & HEALTH & SAFETY INFORMATION

PRODUCT NAME **MICROSILAN INJECTION FLUID**

HAZARD IDENTIFICATION & COSHH ASSESSMENT INFORMATION

Product	Manufacturer	Occupational Exposure Limits
Microsilan	Chemical Building Products Ltd 1 Old Coastguard Road Sandbanks Poole, Dorset BH13 7RL Tel: 01202 700600	(EH40 listed substance) Aminoalkylalkoxysilane 8 hr. TWA 5 mins 200 ppm 250ppm

Chemical Composition	An aqueous solution containing potassium methyl siliconate, aminoalkylalkoxysilane and other silicaceous materials.
Hazard Classification	CORROSIVE
Risks	Corrosive irritant to eyes and skin. Alkaline and corrosive if swallowed or inhaled.
Appearance	Pale yellow liquid

ASSESSMENT OF EXPOSURE

How Used	Levels of vapour generated during dpc injection are generally low. Trained operatives must wear appropriate personal protective equipment. Exposure is most likely from skin contact.
Frequency of Use	Used for 1 – 2 hours per day. Varies from every working day to once a week.
Method of Handling	Product is diluted 5:25:1 with water. Product is an irritant in diluted form.
Assessed Risks in Context of Use	Care should be taken when diluting concentrated product; otherwise product has minimal risks.
Control Measures	Avoid skin and eye contact.

Personal Protective Equipment During Application	Gloves	Goggles	Coverall	Respirator	Dust Mask	Face Shield
	Yes	No	Yes	Yes	No	Yes

Manufacturer's Data Sheet On File and Present in Team Leader's Folder ☐ Health Surveillance Required. ☐

Special Considerations: Read material safety data sheet, available on request from Chemical Building Products Ltd.