cause



SAFETY DATA SHEET STOPGAP F77 RESIN

SECTION 1: Identification of the	ne substance/mixture and of the company/undertaking
1.1. Product identifier	
Product name	STOPGAP F77 RESIN
Product number	F3744
Internal identification	SGF77R/4
1.2. Relevant identified uses o	f the substance or mixture and uses advised against
Identified uses	Component of epoxy damp proof membrane system
Uses advised against	None
1.3. Details of the supplier of the	ne safety data sheet
Supplier	F.Ball and Co. Ltd. Churnetside Business Park, Station Road, Cheddleton, Leek, Staffordshire. ST13 7RS Tel: 01538 361633 Mon-Fri 8.30am-5.00pm (Exc Bank Holidays) Fax: 01538 361622 E.mail: msds@f-ball.co.uk
1.4. Emergency telephone num	nber
Emergency telephone	01538 361633 Mon-Fri 8.30am - 5.00pm (excluding Bank Holidays)
SECTION 2: Hazards identifica	ation
2.1. Classification of the substa	ance or mixture
Classification	
Physical hazards	Not Classified
Health hazards	Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317
Environmental hazards	Aquatic Chronic 2 - H411
Classification (67/548/EEC or 1999/45/EC)	Xi;R36/38. R43. N;R51/53.
Human health	The liquid is irritating to eyes and skin. Risk of sensitisation by skin contact
Environmental	The product contains a substance which is toxic to aquatic organisms and which may long-term adverse effects in the aquatic environment.
2.2. Label elements	

Pictogram



Signal word	Warning
Hazard statements	H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H411 Toxic to aquatic life with long lasting effects.
Precautionary statements	 P264 Wash contaminated skin thoroughly after handling. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection. P302+P352 IF ON SKIN: Wash with plenty of water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P313 Get medical advice/attention.
Contains	EPOXY RESIN (Number average MW <= 700), BISPHENOL F EPOXY RESIN, OXIRANE, MONO [(C12-14- ALKYLOXY)METHYL] DERIVS
Supplementary precautionary statements	P501 Dispose of contents/container in accordance with national regulations.

2 S 3

SECTION 3: Composition/information on ingredients 3.2. Mixtures			
			EPOXY RESIN (Number average
CAS number: 25068-38-6	EC number: 500-033-5	REACH registration number: 01- 2119456619-26	
Classification	Classificati	on (67/548/EEC or 1999/45/EC)	
Skin Irrit. 2 - H315	R43 Xi;R36	6/38 N;R51/53	
Eye Irrit. 2 - H319			
Skin Sens. 1 - H317			
Aquatic Chronic 2 - H411			
BISPHENOL F EPOXY RESIN			1-10%
CAS number: 9003-36-5	REACH registration number: 01 2119454392-40	-	
Classification	Classificati	on (67/548/EEC or 1999/45/EC)	
Skin Irrit. 2 - H315		N;R51/53. R43.	
Eye Irrit. 2 - H319			
Skin Sens. 1 - H317			
Aquatic Chronic 2 - H411			

OXIRANE, MONO [(C12-14- ALKYLOXY)METHYL] DERIVS 1-10%		
CAS number: 68609-97-2	REACH registration number: 01- 2119485289	
Classification Skin Irrit. 2 - H315 Skin Sens. 1 - H317	Classificatio R43 Xi;R38	on (67/548/EEC or 1999/45/EC)
N-METHYL-2-PYRROLIDO	NE	<0.5%
CAS number: 872-50-4	EC number: 212-828-1	REACH registration number: 01- 2119472430-46-xxxx
Classification Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Repr. 1B - H360D STOT SE 3 - H335		on (67/548/EEC or 1999/45/EC) 2;R61 Xi;R36/37/38
The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.		
Composition comments	Epoxy resin blend.	
SECTION 4: First aid measu	res	
4.1. Description of first aid m	easures	
General information	Remove affected person from source of contamination.	
Inhalation	Move affected person to fresh air at once. Get medical attention if any discomfort continues.	
Ingestion	Rinse mouth thoroughly with water. Give ple medical attention immediately.	enty of water to drink. Do not induce vomiting. Get
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if irritation persists after washing.	
Eye contact	Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes and get medical attention.	
4.2. Most important symptoms and effects, both acute and delayed		
General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.	
Inhalation	This is unlikely to occur but symptoms similar	ar to those of ingestion may develop.
Ingestion	May cause discomfort if swallowed.	
Skin contact	Skin irritation. May cause an allergic skin re	action.
Eye contact	Irritating to eyes. Symptoms following overe Pain.	exposure may include the following: Redness.
4.3. Indication of any immedi	ate medical attention and special treatment ne	eded
Notes for the doctor	Treat symptomatically.	
SECTION 5: Firefighting mea	asures	
5.1. Extinguishing media		

Suitable extinguishing media Extinguish with foam, carbon dioxide or dry powder.

Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.	
5.2. Special hazards arising fro	om the substance or mixture	
Specific hazards	Toxic gases/vapours/fumes of: Oxides of the following substances: Carbon. Nitrogen.	
Hazardous combustion products	Oxides of carbon. Oxides of nitrogen.	
5.3. Advice for firefighters		
Protective actions during firefighting	No specific firefighting precautions known.	
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.	
SECTION 6: Accidental releas	e measures	
6.1. Personal precautions, pro	tective equipment and emergency procedures	
Personal precautions	Provide adequate ventilation. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Avoid contact with skin and eyes.	
6.2. Environmental precaution	<u>s</u>	
Environmental precautions	Avoid the spillage or runoff entering drains, sewers or watercourses. Contain spillages with sand, earth or any suitable absorbent material.	
6.3. Methods and material for	containment and cleaning up	
Methods for cleaning up	Absorb spillage with sand or other inert absorbent. Collect spillage in containers, seal securely and deliver for disposal as hazardous waste.	
6.4. Reference to other section	<u>15</u>	
Reference to other sections	For personal protection, see Section 8. See Section 11 for additional information on health hazards. For waste disposal, see section 13.	
SECTION 7: Handling and sto	rage	
7.1. Precautions for safe hand	ling	
Usage precautions	Provide adequate ventilation. Good personal hygiene procedures should be implemented. Do not eat, drink or smoke when using the product.	
Advice on general occupational hygiene	Promptly remove any clothing that becomes contaminated. Wash contaminated clothing before reuse. Wash after use and before eating, smoking and using the toilet.	
7.2. Conditions for safe storage, including any incompatibilities		
Storage precautions	Keep separate from food, feedstuffs, fertilisers and other sensitive material. Store in closed original container at temperatures between 5°C and 30°C. Store in a cool and well-ventilated place.	
7.3. Specific end use(s)		
Specific end use(s)	The identified uses for this product are detailed in Section 1.2.	
SECTION 8: Exposure Contro	Is/personal protection	
8.1. Control parameters Occupational exposure limits N-METHYL-2-PYRROLIDONE		

Long-term exposure limit (8-hour TWA): WEL 10 ppm 40 mg/m³ Short-term exposure limit (15-minute): WEL 20 ppm 80 mg/m³ Sk WEL = Workplace Exposure Limit

WEL = Workplace Exposure Limit Sk = Can be absorbed through skin.

8.2. Exposure controls

Protective equipment





Appropriate engineering controls	Provide adequate general and local exhaust ventilation.
Personal protection	Always check applicability with your supplier of protective equipment.
Eye/face protection	If there is a risk of splashing, wear chemical resistant goggles or visor approved to BS EN166.
Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. Nitrile gloves to BSEN374 are recommended. Break through times can vary depending on thickness, use and source. Change gloves regularly.
Other skin and body protection	Wear suitable protective clothing as protection against splashing or contamination. Wear apron or protective clothing in case of contact.
Hygiene measures	Provide eyewash station. Promptly remove any clothing that becomes contaminated. Wash promptly with soap and water if skin becomes contaminated. Wash contaminated clothing before reuse.
Respiratory protection	No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit.
Thermal hazards	None
Environmental exposure controls	Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Viscous liquid.
Odour	Characteristic.
Odour threshold	Not determined.
рН	Not applicable.
Melting point	Not applicable.
Initial boiling point and range	Not determined.
Flash point	Not determined.
Evaporation rate	Not determined.
Evaporation factor	Not determined.
Flammability (solid, gas)	Not applicable.

Upper/lower flammability or explosive limits	Not applicable.
Other flammability	Not applicable.
Vapour pressure	Not determined.
Vapour density	Not determined.
Relative density	1.8 approx. @ °C
Bulk density	Not determined.
Solubility(ies)	Insoluble in water.
Partition coefficient	Not determined.
Auto-ignition temperature	Not applicable.
Decomposition Temperature	Not applicable.
Viscosity	2250-2750 cP @ °C
Explosive properties	Not applicable.
Explosive under the influence of a flame	Not considered to be explosive.
Oxidising properties	Not determined.
Comments	Information given is applicable to the product in its ready-to-use form.
9.2. Other information	
Other information	None.
Refractive index	Not determined.
Particle size	Not applicable.
Molecular weight	Not determined.
Volatility	Not determined.
Saturation concentration	Not determined.
Critical temperature	Not determined.
Volatile organic compound	This product contains a maximum VOC content of 62 (when mixed with hardener) g/l.
SECTION 10: Stability and rea	ctivity
10.1. Reactivity	
Reactivity	The following materials may react with the product: Acids. Strong alkalis. Strong oxidising agents.
10.2. Chemical stability	
Stability	Stable at normal ambient temperatures.
10.3. Possibility of hazardous	reactions
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur. Considerable exothermic reaction can occur when mixed with epoxide hardeners.
10.4. Conditions to avoid	
Conditions to avoid	Avoid contact with acids and oxidising substances.

10.5. Incompatible materials

Materials to avoid Strong acids. Strong alkalis. Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition	Oxides of carbon. Oxides of nitrogen.
products	

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects	No information available.	
Acute toxicity - oral Notes (oral LD₅₀)	No specific test data are available.	
Acute toxicity - dermal Notes (dermal LD ₅₀)	No specific test data are available.	
Acute toxicity - inhalation Notes (inhalation LC50)	No specific test data are available.	
Skin corrosion/irritation Skin corrosion/irritation	Irritating to skin.,Prolonged or repeated contact with skin may cause irritation, redness and dermatitis.	
Animal data	No specific test data are available.	
Human skin model test	No specific test data are available.	
Extreme pH	No specific test data are available.	
Serious eye damage/irritation Serious eye damage/irritation	Irritation of eyes is assumed.	
Respiratory sensitisation Respiratory sensitisation	No specific test data are available.	
Skin sensitisation Skin sensitisation	Sensitising.	
Germ cell mutagenicity		
Genotoxicity - in vitro	No specific test data are available.	
Genotoxicity - in vivo	No specific test data are available.	
Carcinogenicity Carcinogenicity	No specific test data are available.	
Target organ for carcinogenicity	No specific target organs known.	
IARC carcinogenicity	Not listed.	
Reproductive toxicity Reproductive toxicity - fertility	No specific test data are available.	
Specific target organ toxicity -		
STOT - single exposure	No specific test data are available.	
Specific target organ toxicity - repeated exposure		

STOT - repeated exposure	No specific test data are available.
Aspiration hazard Aspiration hazard	Not relevant.
General information	No specific health hazards known.
Inhalation	May cause some discomfort in poorly ventilated areas.
Ingestion	May cause discomfort if swallowed.
Skin contact	Prolonged or repeated exposure may cause severe irritation. May cause sensitisation by skin contact.
Eye contact	Irritating to eyes.
Acute and chronic health hazards	Irritating to skin. Irritating to eyes. May cause sensitisation by skin contact.
Route of entry	Skin and/or eye contact
Target organs	Eyes Skin
Medical symptoms	Skin irritation. Irritation of eyes and mucous membranes.
Medical considerations	Pre-existing eye problems. Skin disorders and allergies.
Toxicological information on ingredients.	

EPOXY RESIN (Number average MW <= 700)

Acute toxicity - oral	
Acute toxicity oral (LD₅₀ mg/kg)	2,000.0
Species	Rat
Acute toxicity - dermal	
Acute toxicity dermal (LD₅ mg/kg)	2,000.0
Species	Rat
	BISPHENOL F EPOXY RESIN
Acute toxicity - oral	
Acute toxicity oral (LD₅₀ mg/kg)	2,000.0
Species	Rat
Acute toxicity - dermal	
Acute toxicity dermal (LD₅₀ mg/kg)	2,000.0
Species	Rabbit
<u>o</u>	XIRANE, MONO [(C12-14- ALKYLOXY)METHYL] DERIVS
Acute toxicity - oral	

Acute toxicity - oral

Acute toxicity ora mg/kg)	I (LD₅ 17,100.0
Species	Rat
SECTION 12: Ecological Inform	mation
Ecotoxicity	The product should not be allowed to enter drains, sewers or watercourses. Toxic to aquatic life with long lasting effects.
12.1. Toxicity	
Toxicity	Not available
Acute toxicity - fish	Not determined
Acute toxicity - aquatic invertebrates	Not determined.
Acute toxicity - aquatic plants	Not determined.
Acute toxicity - microorganisms	Not determined.
Acute toxicity - terrestrial	Not determined.
Chronic toxicity - fish early life stage	Not determined.
Short term toxicity - embryo and sac fry stages	Not determined.
Chronic toxicity - aquatic invertebrates	Not determined.
Ecological information on ingre	edients. EPOXY RESIN (Number average MW <= 700)

EPOXY RESIN (Number average MW <= 700)

Acute toxicity - fish	LC50, 96 hours, 96 hours: 1.3 mg/l, Onchorhynchus mykiss (Rainbow trout)
Acute toxicity - aquatic invertebrates	EC₅₀, 48 hours, 48 hours: 2.1 mg/l, Daphnia magna
Acute toxicity - aquatic plants	, 72 hours, 72 hours: > 11 mg/l, Freshwater algae
Acute toxicity - microorganisms	EC_{50} , 3 hours, 3 hours: > 100 mg/l, Activated sludge

BISPHENOL F EPOXY RESIN

Acute toxicity - fish	LC50, 96 hours, 96 hours: 2.54 mg/l, Freshwater fish
Acute toxicity - aquatic invertebrates	EC₅₀, 48 hours, 48 hours: 2.55 mg/l, Daphnia magna

OXIRANE, MONO [(C12-14- ALKYLOXY)METHYL] DERIVS

Acute toxicity - fish LC50, 96 hours, 96 hours: > 1800 , Leuciscus idus (Golden orfe)

	toxicity - aquatic EC₅₀, 48 hours, 48 hours: 844 mg/l, Daphnia magna ebrates
	toxicity - EC_{50} , >: > 100 mg/l, Activated sludge
12.2. Persistence a	nd degradability
Persistence and de	gradability There are no data on the degradability of this product.
Phototransformation	n Not determined.
Stability (hydrolysis) Not determined.
Biodegradation	Highly insoluble in water.
Biological oxygen d	lemand Not determined.
Chemical oxygen d	emand Not determined.
12.3. Bioaccumulat	ive potential
Bioaccumulative po	otential No data available on bioaccumulation.
Partition coefficient	Not determined.
12.4. Mobility in soi	<u>I</u>
Mobility	The product is insoluble in water.
Adsorption/desorpti coefficient	ion Not determined.
Henry's law constar	nt Not determined.
Surface tension	Not determined.
12.5. Results of PB	T and vPvB assessment
Results of PBT and assessment	VPvB This substance is not classified as PBT or vPvB according to current EU criteria.
12.6. Other adverse	e effects
Other adverse effect	cts None known.
SECTION 13: Dispo	osal considerations
13.1. Waste treatme	ent methods
Disposal methods	Small quantities of product may be treated with an equivalent quantity of product hardener, allowed to cure and disposed of as low hazard waste. Large quantities should be disposed of via licensed waste operators to an approved incineration unit. Product containers must not b re-used without commercial cleaning.
SECTION 14: Trans	sport information
14.1. UN number	
UN No. (ADR/RID)	3082
UN No. (IMDG)	3082
UN No. (ICAO)	3082

Proper shipping name (ADR/RID)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN (Number average MW <= 700)
Proper shipping name (IMDG)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN (Number average MW <= 700)
Proper shipping name (ICAO)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN (Number average MW <= 700)
Proper shipping name (ADN)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN (Number average MW <= 700)

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ADR/RID class	9
ADR/RID label	9
IMDG class	9
ICAO class/division	9

Transport labels



14.4. Packing group

ADR/RID packing group	III
IMDG packing group	III
ICAO packing group	III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



14.6. Special precautions for user

EmS	F-A, S-F
Emergency Action Code	•3Z
Hazard Identification Number (ADR/RID)	90
Tunnel restriction code	(E)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture	
National regulations	The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716). No. 116). No listing known.
Guidance	Safety Data Sheets for Substances and Preparations. Approved Classification and Labelling Guide (Sixth edition) L131.

Authorisations (Title VII Regulation 1907/2006)	No specific authorisations are known for this product.
Restrictions (Title VIII Regulation 1907/2006)	No specific restrictions on use are known for this product.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information	
General information	Type of Regulated Paint under the Air Pollution Control (Volatile Organic Compounds) Regulation of Hong Kong (Primers, Sealers and Undercoats). VOC Content (mixed with hardener) not exceeding 62g/litre.
Key literature references and sources for data	Health and Safety Executive Guidance Note EH40 (amended annually). Workplace Exposure Limits.
Revision comments	Section 9: update. Section 11 update. Section 12 update.
Revision date	18/02/2016
Revision	4
Supersedes date	05/03/2015
SDS status	Approved.
Risk phrases in full	 R10 Flammable. R36/37/38 Irritating to eyes, respiratory system and skin. R36/38 Irritating to eyes and skin. R37 Irritating to respiratory system. R38 Irritating to skin. R43 May cause sensitisation by skin contact. R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R61 May cause harm to the unborn child. R65 Harmful: may cause lung damage if swallowed. R66 Repeated exposure may cause skin dryness or cracking. R67 Vapours may cause drowsiness and dizziness.
Hazard statements in full	 H315 Causes skin irritation. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H335 May cause respiratory irritation. H360D May damage the unborn child. H411 Toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.