Safety Data Sheet

Product: **BELZONA® 4331**
Date: **JUNE 1998**

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION	Belzona Polymerics Ltd. Claro Road, Harrogate, HG1 4AY. Tel: +44 (0) 1423 567641 Emergency Tel: +44 (0) 1423 503218		Product Type: Two component chemical resistant coating	
	BASE		**SOLIDIFIER**	
2. COMPOSITION/INFORMATION ON INGREDIENTS	Epoxy Phenol novolac Resin Alcohol Diluent	30-60% 5-10%	Benzene-1,3-dimethanamine	60-100%
3. HAZARDS IDENTIFICATION	Harmful by inhalation and skin contact (R20/21). Harmful if swallowed (R22). Irritating to eyes and skin (R36/38). May cause sensitization by skin contact (R43). Contains epoxy constituents. See information supplied by manufacturer.		Harmful by inhalation (R20). Harmful if swallowed (R22). Causes severe burns (R35).	
4. FIRST AID MEASURES				
Inhalation	Remove to fresh air. Seek medical attention promptly.		Remove to fresh air	
Skin	Remove excess with clean cloth and wash skin thoroughly with soap and water. If irritation persists seek medical attention.		Rinse immediately with copious amounts of water for at least 15 minutes. Seek medical attention promptly.	
Eyes	Flush immediately with copious amounts of water for at least 15 minutes. Seek medical attention promptly.		Flush immediately with copious amounts of water for at least 15 minutes. Seek medical attention promptly.	
Ingestion	Do not induce vomiting. Immediately rinse mouth with water. Drink plenty of water. Seek medical attention promptly.		Do not induce vomiting. Seek medical attention promptly.	
5. FIRE-FIGHTING MEASURES				
Extinguishing Media	Carbon dioxide. Dry powder. Foam.		Dry powder. Foam. Carbon dioxide.	
Unsuitable	Water jet		-	
Special Procedures	Fire fighters must wear self contained breathing apparatus due to the toxic nature of evolved gases.		Fire fighters must wear self contained breathing apparatus due to the toxic nature of evolved gases.	
6. ACCIDENTAL RELEASE MEASURES				
Personal Precautions	Wear suitable protective clothing, gloves and eye/face protection (S36/37/39)		Wear suitable protective clothing, gloves and eye/face protection (S36/37/39) Use only in well ventilated areas (S51).	
Environmental Precautions	Do not empty into drains (S29). Do not allow to contaminate water, effluent or soil. Observe Local Bye Laws.		Do not empty into drains (S29). Do not allow to contaminate water, effluent or soil. Observe Local Bye Laws.	
Cleansing Methods	Absorb with dry inert material such as sand. Sweep up and place into suitable labelled container.		Absorb with dry inert material such as sand. Place into suitable labelled containers for disposal.	
7. HANDLING AND STORAGE	Do not breathe the vapour/spray (S23). Avoid contact with skin and eyes (S24/25). When using do not eat, drink or smoke (S20/21). Keep away from food, drink and animal feeding stuffs (S13). Store in tightly lidded containers in dry conditions between 5°C and 30°C.		Avoid contact with skin and eyes (S24/25). Store in tightly lidded containers in dry conditions between 5°C and 30°C.	
8. EXPOSURE CONTROLS AND PERSONAL PROTECTION				
Respiratory	In confined areas or where good natural/mechanical ventilation is not available respiratory protection should be used.		Not normally required with adequate ventilation.	
Hands	Impermeable nitrile or neoprene gloves.		Impermeable nitrile or neoprene gloves.	
Eyes	Faceshield/Goggles		Faceshield/Goggles	
Other	Wear suitable protective clothing (S36).		Wear suitable protective clothing (S36).	

	BASE	SOLIDIFIER
9. PHYSICAL AND CHEMICAL PROPERTIES		
Boiling point	Not applicable	150°C at 12 hpa
Flash Point (Closed Cup)	>100°C	134°C
Flammability	Non-flammable, but combustible when dry	Non-flammable, but combustible when dry
Autoflammability	Not applicable	No information available
Explosive Properties	Not applicable	Not applicable
Oxidising Properties	Not applicable	Not applicable
Vapour Pressure	1.36	0.011 hpa at 20°C
Relative Density	1.58	1.052 g/cm^3
Solubility in Water	Negligible	Soluble at 20°C
Other Data	-	-
10. STABILITY AND REACTIVITY	Stable	Stable
Conditions to Avoid	Not applicable	Not applicable
Materials to Avoid	Strong oxidising agents. Acids. Bases.	Acids. Epoxy Resins - under uncontrolled conditions.
Hazardous Decomposition Products	Decomposition products may include toxic and irritant fumes.	Decomposition products may include toxic and irritant fumes.
11. TOXICOLOGICAL INFORMATION	Epoxy Phenol Novolac Resin Oral LD_{50} (rat) >5000 mg/kg Alcohol diluent Oral LD_{50} (rat) 275 mg/kg	Oral LD_{50} (rat) 1040 mg/kg Inhalation LC_{50} (rat) 2.5 mg/L Dermal LD_{50} (rabbit) 2000 mg/kg
12. ECOLOGICAL INFORMATION	Not readily biodegradable.	No information available
WGK Classification	No information available	No information available
13. DISPOSAL	Excess product should be mixed and allowed to solidify before disposal. Disposal must be carried out in accordance with Local and National Regulations.	Excess product should be mixed and allowed to solidify before disposal. Disposal must be carried out in accordance with Local and National Regulations.
14. TRANSPORT INFORMATION		
Hazard Warning	Not applicable	Corrosive
UN No.	Not applicable	2735
IMO/ IMDG	Not applicable	Class 8 /8109-2
EMS	Not applicable	8.05
MFAG	Not applicable	320
ICAO/IATA	Not applicable	Class 8 III
RID/ADR	Not applicable	Class 8 53(c)
15. REGULATORY INFORMATION		
Hazard	Harmful	Corrosive. Harmful.
Risk Phrases	Harmful by inhalation and skin contact (R20/21). Harmful if swallowed (R22). Irritating to eyes and skin (R36/38). May cause sensitization by skin contact (R43).	Harmful by inhalation (R20). Harmful if swallowed (R22). Causes burns (R34).
Safety Phrases	Avoid contact with skin and eyes (S24/25). In case of contact with eyes rinse immediately with plenty of water and seek medical advice (S26). Wear suitable protective gloves and clothing (S36/37).	Avoid contact with skin and eyes (S24/25). In case of contact with eyes rinse immediately with plenty of water and seek medical advice (S26). Wear suitable protective clothing, gloves and eye/face protection (S36/37/39). In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible) (S45).
16. OTHER INFORMATION	-	-

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