Safety Data Sheet

Product: **BELZONA® 4231**
Date: **FEBRUARY 1999**

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: Three-pack material for repair and rebuilding of concrete surfaces
	BASE	**SOLIDIFIER**
2. COMPOSITION/INFORMATION ON INGREDIENTS	Dibutyltin dilaurate 0-1%	4,4'-Diphenylmethane-diisocyanate (mixture) 60-100%
3. HAZARDS IDENTIFICATION	Hazard warning not required.	Harmful by inhalation (R20). Irritating to eyes, respiratory system and skin (R36/37/38). May cause sensitization by inhalation and skin contact (R42/43).
4. FIRST AID MEASURES Inhalation	Remove to fresh air.	In the event of any irritation or inflammation seek medical attention immediately.
Skin	Remove excess with clean cloth and wash skin thoroughly with soap and water.	Remove excess with clean cloth and wash skin thoroughly with soap and water. In the event of any irritation or inflammation seek medical attention immediately.
Eyes	Rinse immediately with copious amounts of water for at least 15 minutes.	Rinse immediately with copious amounts of water for at least 15 minutes. Seek medical attention promptly.
Ingestion	Do not induce vomiting. Seek medical attention promptly.	Seek medical attention promptly.
5. FIRE-FIGHTING MEASURES Extinguishing Media	Foam, dry powder	Foam, dry powder.
Unsuitable	Water jet	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 gloves and clothing (S36/37).	Wear suitable protective gloves and clothing (S36/37). Faceshield/Goggles
Environmental Precautions	Do not empty into drains (S29).	Do not empty into drains (S29). Do not allow to contaminate water, effluent or soil. Observe Local Bye Laws.
Cleansing Methods	Sweep up and place into suitable labelled container.	Absorb with dry inert material such as sand/sawdust. Sweep up and place into suitable labelled container.
7. HANDLING AND STORAGE	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).	Avoid contact with skin and eyes (S24/25). Keep away from food, drink and animal feeding stuffs (S13). When using do not eat, drink or smoke (S20/21). 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.	Use suitable respiratory equipment if adequate ventilation is not available.
Hands	Impermeable nitrile or neoprene gloves.	Impermeable nitrile or neoprene gloves.
Eyes	Faceshield/Goggles	Faceshield/Goggles
Other	Suitable protective clothing (S36).	Suitable protective clothing (S36).

	BASE	SOLIDIFIER
9. PHYSICAL AND CHEMICAL PROPERTIES		
Boiling point	Not applicable	>350°C
Flash Point (Closed Cup)	>100°C	>200°C
Flammability Limit	Not applicable	-
Autoflammability	Not applicable	No information available
Explosive Properties	Not applicable	Not applicable
Oxidising Properties	Not applicable	Not applicable
Vapour Pressure	Not applicable	< 0.00001 mbar at 20°C
Relative Density	1.85	1.22
Solubility in Water	Insoluble	Slightly soluble
Other Data	Exothermic reactions occur when components are mixed. Avoid storage of mixed material in sealed containers.	Exothermic reactions occur when components are mixed. Avoid storage of mixed material in sealed containers.
10. STABILITY AND REACTIVITY	Stable	Stable
Conditions to Avoid	Not applicable	Not applicable
Materials to Avoid	Not applicable	Amines, alcohol.
Hazardous Decomposition Products	Not applicable	Decomposition products may include toxic and irritant fumes.
11. TOXICOLOGICAL INFORMATION	Dibutyltin dilaurate: LD_{50} Oral (maus) 710 mg/kg LD_{50} Oral (rat) 243 mg/kg	No information available
12. ECOLOGICAL INFORMATION	Dibutyltin dilaurate: LC_{50} (fish) 2 mg/L	No information available
WGK Classification	0 (Self Classification)	1 (Self Classification)
13. DISPOSAL	Disposal must be carried out in accordance with Local and National Regulations.	Do not empty into drains (S29). 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	Not applicable
UN No.	Not applicable	Not applicable
IMO/ IMDG	Not applicable	Not applicable
EMS	Not applicable	Not applicable
MFAG	Not applicable	Not applicable
ICAO/IATA	Not applicable	Not applicable
RID/ADR	Not applicable	Not applicable
15. REGULATORY INFORMATION		
Hazard	Not classified as hazardous under Chemicals (Hazard Information and Packing) Regulations 1993	Harmful
Risk Phrases	-	Harmful by inhalation (R20). Irritating to eyes, respiratory system and skin (R36/37/38). May cause sensitization by inhalation and skin contact (R42/43).
Safety Phrases	Wear suitable gloves and eye/face protection (S37/39).	Contains isocyanates. See information supplied by manufacturer. 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). In case of insufficient ventilation, wear suitable respiratory equipment (S38). Do not breathe fumes/vapour (S23)
16. OTHER INFORMATION	-	-

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Printed in England Publication No. 2-2-99

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BS EN ISO 9002 : 1994
Certificate No Q/09335