Safety Data Sheet

Product: **BELZONA® 5221 (D & A Laminate)**
Date: **NOVEMBER 1996**

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-pack water based polyurethane.
	BASE		**SOLIDIFIER**
2. COMPOSITION/INFORMATION ON INGREDIENTS	N-methyl-2-pyrrolidone Trimethylamine	10-30% 0-1%	Substituted imine-ester Propylene-imine	60-100% <0.1%
3. HAZARDS IDENTIFICATION	Contact with skin, eyes or respiratory system may cause irritation. Prolonged or repeated contact can lead to de-fatting and irritation of skin.		Extremely severe eye irritant. May cause permanent damage to eyes if first aid is not immediate.
4. FIRST AID MEASURES			
Inhalation	Remove to fresh air. If symptoms persist seek medical attention.		Remove to fresh air. If symptoms persist seek medical attention.
Skin	Remove excess with clean cloth and wash skin thoroughly with soap and water. If irritation persists seek medical attention.		Remove excess with clean cloth and wash skin thoroughly with soap and water. If irritation persists seek medical attention.
Eyes	Rinse immediately with copious amounts of water for at least 15 minutes. If irritation persists seek medical attention.		Rinse immediately with copious amounts of water for at least 15 minutes. If irritation persists seek medical attention.
Ingestion	Do not induce vomiting. Immediately rinse mouth with water. Drink plenty of water. Seek medical attention promptly.		Do not induce vomiting. Immediately rinse mouth with water. Drink plenty of water. Seek medical attention promptly.
5. FIRE-FIGHTING MEASURES			
Extinguishing Media	Not applicable		Dry powder, foam, carbon dioxide, water fog.
Unsuitable	-		-
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.		Wear suitable protective gloves and clothing.
Environmental Precautions	Do not allow to contaminate water, effluent or soil. Observe Local Bye Laws.		Do not allow to contaminate water, effluent or soil. Observe Local Bye Laws.
Cleansing Methods	Absorb with dry inert material such as sand. Place into suitable labelled containers for disposal. Flush contaminated area with detergent and water.		Absorb with dry inert material such as sand. Place into suitable labelled containers for disposal. Flush contaminated area with detergent and water.
7. HANDLING AND STORAGE	Avoid contact with skin and eyes. When using do not eat, drink or smoke. Store in tightly lidded containers in dry conditions between 5°C and 30°C.		Avoid contact with skin and eyes. When using do not eat, drink or smoke. 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.		In confined areas or where good natural/mechanical ventilation is not available respiratory protection should be used.
Hands	Impermeable nitrile or neoprene gloves.		Impermeable nitrile or neoprene gloves.
Eyes	Faceshield/Goggles		Faceshield/Goggles
Other	Suitable protective clothing		Suitable protective clothing

	BASE	SOLIDIFIER
9. PHYSICAL AND CHEMICAL PROPERTIES		
Boiling point	100°C	No information available
Flash Point (Closed Cup)	Not applicable	>100°C
Flammability	Non-flammable	Non-flammable, but combustible.
Autoflammability	Not applicable	No information available
Explosive Properties	Not applicable	Not applicable
Oxidising Properties	Not applicable	Not applicable
Vapour Pressure	2.35 x 10^3 Pa at 20°C	No information available
Relative Density	1.049	1.08
Solubility in Water	Miscible	Miscible
Other Data	-	-
10. STABILITY AND REACTIVITY	Stable	Stable at normal temperature and pressure.
Conditions to Avoid	Not applicable	Will hydrolyse with water at 110°C, but only after the evaporation of the stabilising amine. Product will then polymerise.
Materials to Avoid	Strong oxidising agents.	Hazardous reactions may occur if mixed with acidic materials.
Hazardous Decomposition Products	Gaseous combinations of carbon, hydrogen and oxygen.	Gaseous combinations of carbon, hydrogen, oxygen and nitrogen.
11. TOXICOLOGICAL INFORMATION	Acute oral toxicity >5000 mg kg^{-1} body weight	Acute Oral Toxicity LD_{50} (rat) => 3038 mg kg^{-1}
12. ECOLOGICAL INFORMATION	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	Not applicable
UN No.	Not applicable	Not applicable
IMO/IMDG	Not applicable	Not applicable
ICAO/IATA	Not applicable	Not applicable
RID/ADR	Not applicable	Not applicable
15. REGULATORY INFORMATION		
Hazard	Irritant	Harmful
Risk Phrases	Irritating to eyes, respiratory system and skin.	Possible risk of irreversible effects. Risk of serious damage to eyes. Irritating to skin. May cause sensitization by skin contact.
Safety Phrases	In case of contact with eyes rinse immediately with plenty of water and seek medical advice.	Do not breathe the vapour/spray. In case of contact with eyes rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of soap and water. Wear suitable protective clothing. Wear suitable gloves and eye/face protection.
16. OTHER INFORMATION	Adequate ventilation is that which ensures that the oxygen content of the air being breathed is greater than 18% and that any airborne contaminants with occupational exposure limits do not exceed quoted MEL or OES values.	Adequate ventilation is that which ensures that the oxygen content of the air being breathed is greater than 18% and that any airborne contaminants with occupational exposure limits do not exceed quoted MEL or OES values.

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Belzona Polymerics Ltd.,
Claro Road,
Harrogate, HG1 4AY,
England.
Tel: +44 (0) 1423 567641
Fax: +44 (0) 1423 505967

Belzona Inc.,
2000 N.W. 88 Court,
Miami, Florida 33172,
U.S.A.
Tel: +1 (305) 594 4994
Fax: +1 (305) 599 1140

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