Safety Data Sheet

Product: **BELZONA® 5711 (Environmental Barrier)**
Date: **APRIL 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: Solvent free anti-algae coating.
	BASE	**SOLIDIFIER**
2. COMPOSITION/INFORMATION ON INGREDIENTS	Isophoronediamine 10-25% Benzyl alcohol 10-25%	Bisphenol A Epoxy Resin (MW <700) 30-60% Bisphenol F Epoxy Resin (MW <700) 30-60%
3. HAZARDS IDENTIFICATION	Contact causes burns and possible sensitization. Severe cases may result in permanent damage.	Irritant. Prolonged or repeated contact can cause sensitization and dermatitis.
4. FIRST AID MEASURES		
Inhalation	Remove to fresh air	Remove to fresh air
Skin	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.	Remove excess with clean cloth and wash skin thoroughly with soap and water. If irritation or inflammation persists seek medical attention.
Eyes	Rinse immediately with copious amounts of water for at least 15 minutes. Seek medical attention promptly.	Rinse immediately with copious amounts of water for at least 15 minutes. If irritation or inflammation persists seek medical attention.
Ingestion	Do not induce vomiting. Immediately rinse mouth with water. Drink 1/3 pint water every 10 minutes for 30 minutes. 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	Dry powder, foam, carbon dioxide, water fog.	Dry powder, foam, carbon dioxide. water fog.
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.	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 breathing vapour. 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 leading to a risk of exceeding the exposure limits indicated, respiratory protection should be used.	In confined areas or where good natural/mechanical ventilation is not available leading to a risk of exceeding the exposure limits indicated, 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	>150°C	Decomposes
Flash Point (Closed Cup)	>100°C	252°C
Flammability	Non-flammable, but combustible.	Non-flammable, but combustible.
Autoflammability	No information available	No information available
Explosive Properties	Not applicable	Not applicable
Oxidising Properties	Not applicable	Not applicable
Vapour Pressure	Not applicable	Not applicable
Relative Density	1.2	1.16
Solubility in Water	Insoluble	Insoluble
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	Strong oxidising agents, acids and epoxy resins.	Strong oxidizing agents, acids, bases and amines.
Hazardous Decomposition Products	Gaseous combinations of carbon, hydrogen, oxygen and nitrogen.	Gaseous combinations of carbon, hydrogen and oxygen.
11. TOXICOLOGICAL INFORMATION	Benzyl alcohol: Oral LD_{50} (rat) 1230 mg kg^{-1} Inhal LC_{50} (rat) 1000 mg kg^{-1} (8hr TWA)	Acute Oral Toxicity LD_{50} (rat) > 5000 mg kg^{-1}
12. ECOLOGICAL INFORMATION	No information available.	Bisphenol A-epichlorohydrin (Reaction product) LC_{50} (Fathead minnow) : 3.1 mgL^{-1} Based on absence of biodegradability and on moderate toxicity to fish, resin could be potential aquatic pollutant.
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	Corrosive	Not applicable
UN No.	1760	Not applicable
IMO/IMDG	Class 8 /8147	Not applicable
ICAO/IATA	Class 8 1760 III	Not applicable
RID/ADR	Class 8 No 66°(c)	Not applicable
15. REGULATORY INFORMATION		
Hazard	Corrosive	Irritant
Risk Phrases	Causes burns. May cause sensitization by skin contact. Harmful if swallowed.	Irritating to eyes and 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. Wear suitable protective clothing. Wear suitable gloves and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).	After contact with skin, wash immediately with plenty of soap and water. Wear suitable gloves and eye/face protection.
16. OTHER INFORMATION	-	-

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