Safety Data Sheet

Product: **BELZONA® 1211 (E-Metal)**
Date: **MARCH 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: Two-pack material for emergency repairs to machinery and equipment
	BASE	**SOLIDIFIER**
2. COMPOSITION/INFORMATION ON INGREDIENTS	Bisphenol A-Epichlorohydrin (Reaction product) 10-30%	Tris-2,4,6-dimethylaminomethyl phenol 1-5%
3. HAZARDS IDENTIFICATION	Irritant. Prolonged or repeated contact can cause sensitization and dermatitis.	May cause sensitization by skin contact.
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. If irritation or inflammation 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	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 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	Decomposes	> 175°C
Flash Point (Closed Cup)	> 200°C	> 95°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	2.80	1.66
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, bases and amines.	Strong oxidising agents and epoxy resins.
Hazardous Decomposition Products	Gaseous combinations of carbon, hydrogen and oxygen.	Gaseous combinations of carbon, hydrogen, oxygen, nitrogen and sulphur.
11. TOXICOLOGICAL INFORMATION	Base component not tested Calculated Oral LD_{50} > 4000 mg kg^{-1} OES (8hr TWA) 1 mg m^{-3}	No information available
12. ECOLOGICAL INFORMATION	Bisphenol A-epichlorohydrin (Reaction product) LC_{50} (Fathead minow) 3.1 gL^{-1} Based on absence of biodegradability and on moderate toxicity to fish, resin could be potential aquatic pollutant.	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	Irritant
Risk Phrases	Irritating to eyes and skin. May cause sensitization by skin contact.	Irritating to respiratory system and skin.
Safety Phrases	Wear suitable gloves and eye/face protection. In case of contact with eyes rinse immediately with plenty of water and seek medical advice. Contains epoxy constituents. See information supplied by manufacturer.	Avoid contact with skin and eyes. In case of contact with eyes rinse immediately with plenty of water and seek medical advice. Wear suitable gloves and eye/face protection. In case of insufficient ventilation, wear suitable respiratory equipment.
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.

Copyright © 1999 by Belzona International Limited. All rights reserved. Certain portions of this work copyright © 1992, 1994, 1995, 1996, 1998 by Belzona International Limited. No part of this work covered by the copyrights hereon may be reproduced or used in any form or by any means - graphic, electronic or mechanical including photocopying, recording, taping or information storage and retrieval systems - without written permission of the publisher.

Belzona® is a registered trademark

Printed in England Publication No. 10-3-99

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

BS EN ISO 9002 : 1994
Certificate No Q/09335