WHMIS MATERIAL SAFETY DATA SHEET

SECTION 1 - Product Identification and Use		Date : **12 May, 1998**
Product identifier : **BELZONA® 8111 (MOULDABLE WOOD) POWDER**		PIN/UN No : **Not applicable**
Product use : **Repair and Reclamation**		WHMIS classification : **D2B**
Manufacturer's name & address : **BELZONA POLYMERICS Ltd.,** Claro Road, Harrogate, Yorkshire, HG1 4AY, United Kingdom. Emergency telephone number : U.K. -44-1423-503218	Supplier's name & address : **BELZONA Inc.,** 2000 N.W. 88 Court, America's Gateway Park, Miami, Florida 33172, United States.	Supplier's emergency telephone numbers : (Spill, Leak, Fire, Exposure or Accident) 800 424 9300 - Toll free in Canada 202 483 7616 Information telephone number : 305 594 4994 - Working hours only

SECTION 2 - Hazardous Ingredients

Hazardous Ingredients	Approximate Concentration	CAS Numbers	Exposure Limits	LD_{50}/LC_{50} Species and Route
Barium sulfate	**10-30%**	**7727-43-7**	**ACGIH 10 mg/m³**	**Not available**
Calcium sulfate	**10-30%**	**7778-18-9**	**ACGIH 10 mg/m³**	**Not available**
Talc	**10-30%**	**14807-96-6**	**ACGIH 2 mg/m³**	**Not available**
Benzoyl peroxide	**1-5%**	**94-36-0**	**ACGIH 5 mg/m³**	**Oral LD_{50} >5000 mg/kg rat**
Soft wood	**30-60%**	**9004-34-6**	**ACGIH 5 mg/m³**	**Not available**

SECTION 3 - Physical Data

Physical state : **Powder**	Appearance/Odour : **Off-white/not applicable**	Odour threshold(ppm) : **Not applicable**
Vapour pressure (mm Hg) : **Not applicable**	Vapour density (Air = 1) : **Not applicable**	Boiling point (°C) : **Not applicable**
pH : **Not applicable**	Specific gravity : **2.0**	Coefficient water/oil : **Not applicable**
Freezing point (°C) : **Not applicable**	Solubility in water (20°C) : **Insoluble**	Evaporation rate (relative to n-Butyl Acetate) : **Not applicable**

SECTION 4 - Fire and Explosion Data

Flammability : If yes, under which conditions :	**Flammable**	
Means of extinction :	**Water fog**	
Special procedures :	**Wear protective clothing and breathing apparatus**	
Flash point and method : **Not applicable**	Explosion limits (% by volume) : Lower : **Not available** Upper : **Not available**	Autoignition temp (°C) : **Not available**
Hazardous combustion products : **Gaseous combinations of carbon, hydrogen and oxygen**		
Explosion data - Sensitivity to impact : **Not available**	Explosion data - Sensitivity to static discharge : **Not available**	

SECTION 5 - Reactivity Data

Chemical stability : If no, under which conditions :	**No** **Decomposition of peroxide above 70°C**
Incompatibility to other substances : If yes, which ones :	**Yes** **Reducing agents, acids, alkalis and heavy metals**
Reactivity and under what conditions :	**Not applicable**
Hazardous decomposition products :	**See hazardous combustion products above**

Product identifier : **BELZONA® 8111 (MOULDABLE WOOD) POWDER**

SECTION 6 - Toxicological Properties of Product

Route of entry :
Skin contact : √ Skin absorption : Eye contact : √ Inhalation acute : Inhalation chronic : Ingestion :

Effects of acute exposure to product : **Not applicable**

Effects of chronic exposure to product : **Irritation and dermatitis**

LD_{50} of product (species and route) :	Irritancy of product :	Exposure limits of product :
Not available	**Irritant**	**Not available**
LC_{50} of product (species and route) :	Sensitization to product :	Synergistic materials :
Not available	**Not available**	**Not available**

Carcinogenicity : **N.av*** Reproductive effects : **N.av*** Teratogenicity : **N.av*** Mutagenicity : **N.av***

*** Not available for the mixture, however available information on the individual components does not indicate any chronic exposure hazard other than that stated above.**

SECTION 7 - Preventative Measures

Personal protective equipment :	Gloves :	Eye :
	Neoprene or nitrile	**Goggles/faceshield**
Footwear :	Respiratory (protection required if exposure > TLV) :	Clothing :
Safety shoes	**Dust mask**	**Overalls**

Other :

Engineering controls :	**Not applicable under normal conditions of use.**
Leak and spill procedures :	**Damp down with water fog. Sweep up and place into suitable labelled containers.**
Waste disposal :	**In accordance with Federal, Provincial and Local Regulations.**
Handling procedures :	**Avoid contact with skin, eyes and breathing dust.**
Storage requirements :	**Keep in a cool, well ventilated place, in the original containers.**

SECTION 8 - First Aid Measures

Skin :	**After contact with skin, wash immediately with plenty of soap and water. If irritation or inflammation persists, seek medical attention.**
Eye :	**In case of contact with eyes, rinse immediately with plenty of water for at least 15 minutes and seek medical advice.**
Inhalation :	**Remove to fresh air. If irritation or inflammation persists, seek medical attention.**
Ingestion :	**Do not induce vomiting. Immediately rinse the mouth with water. Drink plenty of water (1 pint/600 mls). Seek medical attention promptly.**
General advice :	**When using do not eat, drink or smoke. Take off immediately all contaminated clothing and launder before reuse. Wash hands thoroughly after handling this product.**

SECTION 9 - Preparation Date of MSDS

Additional information : **Replaces previous issue dated 8 October 1997**

Prepared by :	Phone number :	Date :
Dr.W.R.Ashcroft	**U.K. -44-1423-567641**	**12 May, 1998**

WHMIS MATERIAL SAFETY DATA SHEET

SECTION 1 - Product Identification and Use			Date : **12 May, 1998**
Product identifier : **BELZONA® 8111 (MOULDABLE WOOD) REACTIVE LIQUID**			PIN/UN No : **1866**
Product use : **Repair and Reclamation**			WHMIS classification : **B2**
Manufacturer's name & address : **BELZONA POLYMERICS Ltd.,** Claro Road, Harrogate, Yorkshire, HG1 4AY, United Kingdom. Emergency telephone number : U.K. -44-1423-503218	Supplier's name & address : **BELZONA Inc.,** 2000 N.W. 88 Court, America's Gateway Park, Miami, Florida 33172, United States.	Supplier's emergency telephone numbers : (Spill, Leak, Fire, Exposure or Accident) 800 424 9300 - Toll free in Canada 202 483 7616 Information telephone number : 305 594 4994 - Working hours only	

SECTION 2 - Hazardous Ingredients

Hazardous Ingredients	Approximate Concentration	CAS Numbers	Exposure Limits	LD_{50}/LC_{50} Species and Route
Styrene	**10-30%**	**100-42-5**	**ACGIH TLV 50 ppm**	**Oral LD_{50}>5000mg/kg rat**

SECTION 3 - Physical Data

Physical state : **Liquid**	Appearance/Odour : **Amber, styrene**	Odour threshold(ppm) : **Not available**
Vapour pressure (mm Hg) : **4.5 @ 20°C**	Vapour density (Air = 1) : **3.6**	Boiling point (°C) : **146**
pH : **Not applicable**	Specific gravity : **1.14**	Coefficient water/oil : **Not applicable**
Freezing point (°C) : **- 31**	Solubility in water (20°C) : **Negligible (0.03g/100g)**	Evaporation rate (relative to n-Butyl Acetate) : **0.4 (Styrene)**

SECTION 4 - Fire and Explosion Data

Flammability : **Flammable liquid**		
If yes, under which conditions : **Naked flames, sources of ignition, etc.**		
Means of extinction : **Foam, carbon dioxide or dry powder**		
Special procedures : **Wear protective clothing and breathing apparatus. Use sand to contain burning materials.**		
Flash point and method : **34°C Setaflash**	Explosion limits (% by volume) : Lower : **1.1** Upper : **6.1**	Autoignition temp (°C) : **490**
Hazardous combustion products : **Gaseous combinations of carbon, hydrogen and oxygen**		
Explosion data - Sensitivity to impact : **Not available**	Explosion data - Sensitivity to static discharge : **Not available**	

SECTION 5 - Reactivity Data

Chemical stability :	**Yes**
If no, under which conditions :	
Incompatibility to other substances :	**Yes**
If yes, which ones :	**Peroxides**
Reactivity and under what conditions :	**Hazardous polymerisation will not occur when stored and used as directed**
Hazardous decomposition products :	**See hazardous combustion products above**

Product identifier : **BELZONA® 8111 (MOULDABLE WOOD) REACTIVE LIQUID**

SECTION 6 - Toxicological Properties of Product

Route of entry :
Skin contact : √ Skin absorption : √ Eye contact : √ Inhalation acute : √ Inhalation chronic : Ingestion : √

Effects of acute exposure to product : **Skin, eye and respiratory tract irritation. Inhalation of vapours may cause nausea, dizziness, drowsiness or, in extreme cases, unconsciousness.**

Effects of chronic exposure to product : **Irritation and dermatitis.**

LD_{50} of product (species and route) :	Irritancy of product :	Exposure limits of product :
Not available	**Irritant**	**MEL: 100 ppm (8hr TWA) 420 mg m^{-3}**
LC_{50} of product (species and route) :	Sensitization to product :	Synergistic materials :
Not available	**Not applicable**	**Not available**

Carcinogenicity : **N.av*** Reproductive effects : **N.av*** Teratogenicity : **N.av*** Mutagenicity : **N.av***

*** Not available for the mixture, however, styrene, CAS No.100-42-5, is listed by IARC as a Group 2B material : possibly carcinogenic to humans.**

SECTION 7 - Preventative Measures

Personal protective equipment :	Gloves :	Eye :
	Nitrile or Neoprene	**Goggles/faceshield**
Footwear :	Respiratory (protection required if exposure > TLV) :	Clothing :
Safety shoes	**Face mask with organic vapour canister**	**Overalls**

Other :	**Air fed respirator if the oxygen content in the air being breathed is less than 18%.**
Engineering controls :	**Where adequate natural ventilation is not available provide suitable local exhaust ventilation.**
Leak and spill procedures :	**Absorb with an inert material (e.g. earth or sand). Sweep up and place into suitable labelled containers. Flush area with detergent/water.**
Waste disposal :	**In accordance with Federal, Provincial and Local Regulations.**
Handling procedures :	**Avoid contact with skin and eyes, and breathing vapours.**
Storage requirements :	**Keep in a cool, well ventilated place, in the original containers.**

SECTION 8 - First Aid Measures

Skin :	**After contact with skin, wash immediately with plenty of soap and water. If irritation or inflammation persists, seek medical attention.**
Eye :	**In case of contact with eyes, rinse immediately with plenty of water for at least 15 minutes and seek medical advice if any irritation persists.**
Inhalation :	**If symptoms are experienced, remove source of contamination or move victim to fresh air. Obtain medical attention immediately if recovery is delayed.**
Ingestion :	**Do not induce vomiting. Immediately rinse the mouth with water. Seek medical attention promptly.**
General advice :	**When using do not eat, drink or smoke. Take off immediately all contaminated clothing and launder before reuse. Wash hands thoroughly after handling this product.**

SECTION 9 - Preparation Date of MSDS

Additional information : **Replaces previous issue dated 8 October 1997**

Prepared by :	Phone number :	Date :
Dr.W.R.Ashcroft	**U.K. -44-1423-567641**	**12 May, 1998**