WHMIS MATERIAL SAFETY DATA SHEET

SECTION 1 - Product Identification and Use		Date : **30 October, 2000**
Product identifier : **BELZONA® 4111 (MAGMA-QUARTZ) AGGREGATE**		PIN/UN No : **Not applicable**
Product use : **Repair and Reclamation**		WHMIS classification : **D2A**
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
Quartz	**60-100%**	**14808-60-7**	**ACGIH (TWA) TLV 0.05 mg/m³ (R)**	**Not available**
Epoxy resin (number average molecular weight ≤700)	**0.1-1%**	**25068-38-6**	**Not available**	**Oral LD_{50}>5000mg/kg rat**

(R) Respirable particulates. The quartz contained within this product is very unlikely to be a risk due to physical form (see Section 3)

SECTION 3 - Physical Data

Physical state : **Aggregate**	Appearance/Odour : **Beige or Grey/odourless or no characteristic odour.**	Odour threshold(ppm) : **Not available**
Vapour pressure (mm Hg) : **Not applicable**	Vapour density (Air = 1) : **Not applicable**	Boiling point (°C) : **Not applicable**
pH : **Not applicable**	Specific gravity : **2.61**	Coefficient water/oil : **Not applicable**
Freezing point (°C) : **Not applicable**	Solubility in water (20°C) : **Negligible**	Evaporation rate (relative to n-Butyl Acetate) : **Not applicable**

SECTION 4 - Fire and Explosion Data

Flammability : If yes, under which conditions :	**Not flammable, but partially combustible**	
Means of extinction :	**Water fog, foam, carbon dioxide, dry chemical.**	
Special procedures :	**Wear protective clothing and use self-contained breathing apparatus. Full bunker gear should be worn in extreme cases. Use sand to contain burning material.**	
Flash point and method : **>138°C Closed cup**	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 applicable**	Explosion data - Sensitivity to static discharge : **Not available**	

SECTION 5 - Reactivity Data

Chemical stability : If no, under which conditions :	**Yes**
Incompatibility to other substances : If yes, which ones :	**Yes** **Strong oxidizing agents, acids, bases, amines**
Reactivity and under what conditions :	**Not applicable**
Hazardous decomposition products :	**See hazardous combustion products above**

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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 :	**None known**	
Effects of chronic exposure to product :	**Harmful: danger of serious damage to health by prolonged inhalation.**	
LD_{50} of product (species and route) : **8400 mg/kg oral rat**	Irritancy of product : **Slight/Moderate to eyes/skin**	Exposure limits of product : **Not applicable**
LC_{50} of product (species and route) : **Not available**	Sensitization to product : **Skin, on repeated contact**	Synergistic materials : **Not available**

Carcinogenicity : † Reproductive effects : **N.ap** Teratogenicity : **N.ap** Mutagenicity : **N.ap**

† Quartz is listed by ACGIH as 'A2' suspected human carcinogen. The risk is associated with the inhalation of the respirable dust fraction.

SECTION 7 - Preventative Measures

Personal protective equipment :	Gloves : **Use neoprene or nitrile**	Eye : **Goggles/faceshield**
Footwear : **Industrial boots**	Respiratory (protection required if exposure > TLV) : **Not applicable**	Clothing : **Overalls**

Other :

Engineering controls :	**Provide adequate cross air circulation.**
Leak and spill procedures :	**Sweep up and place into suitable covered, labelled containers. Flush area with detergent and water.**
Waste disposal :	**In accordance with Federal, Provincial and Local Regulations.**
Handling procedures :	**Avoid contact with skin and eyes.**
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.**
Eye :	**In case of contact with eyes, rinse immediately with plenty of water 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. 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 7 October 1997**

Prepared by :	Phone number :	Date :
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