

MATERIAL SAFETY DATA SHEET		
In compliance with OSHA 29 CFR 1910.1200		
N.ap means Not Applicable NIA means No Information Available		
PREPARED BY : N.A.ROBINSON	DATE PREPARED : 14 JAN 2003	PAGE 1 OF 4
BELZONA INC., 2000 N.W. 88 COURT, MIAMI, FL 33172	EMERGENCY PHONE NUMBERS (Spill, Leak, Fire, Exposure or Accident) 800 424 9300 - Toll free in United States 202 483 7616 - For calls from outside the United States	
	INFORMATION PHONE NUMBER 305 594 4994 - Working hours only	

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NUMBER : 1024/0866
 PRODUCT NAME : Belzona® 1111 (Super Metal) Base
 PRODUCT CLASS : Modified epoxide resin

SECTION II - HAZARDOUS INGREDIENTS/TOXICOLOGICAL DATA

Hazardous Components	% by Weight	CAS Number	Exposure Limits			Toxicity		LC ₅₀ Inhal ppm
			OSHA PEL	ACGIH TLV	LD ₅₀ Oral	Dermal		
			mg/m ³	ppm	mg/m ³	mg/Kg		
DGEBA-Epoxy Resin	10-30	25068-38-6	NIA	NIA	NIA	5000	2000	NIA
DGEBF-Epoxy Resin	10-30	28064-14-4	NIA	NIA	NIA	5000	2000	NIA
Amorphous Silica	1-5	7631-86-9	N.ap	N.ap	N.ap	NIA	NIA	NIA

CARCINOGENICITY

No data is available for the mixture, however, none of the ingredients are listed as carcinogens by OSHA, NTP, ACGIH or IARC.

SECTION III - PHYSICAL DATA

APPEARANCE AND ODOR : Dark gray paste with epoxy odor.
 BOILING POINT : Decomposes
 VAPOR PRESSURE : NIA
 EVAPORATION RATE : N.ap
 SOLUBILITY IN WATER : Negligible (<0.1%)

SPECIFIC GRAVITY : 2.80
 VAPOR DENSITY : NIA
 % VOLATILE BY VOLUME : N.ap

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT : >239°C
 TEST METHOD : Closed Cup

EXPLOSION LIMITS LOWER : NIA
 UPPER : NIA

OSHA FLAMMABILITY CLASS : Class IIIB liquid.
 FLAMMABILITY INDEX (NFPA) : 1 - Must be preheated before ignition can occur.
 INSTABILITY INDEX (NFPA) : 0 - Normally stable, even under fire conditions.
 HEALTH HAZARD (NFPA) : 2 - Can cause temporary incapacitation or residual injury.
 EXTINGUISHING MEDIA : Water fog (not a direct stream of water), foam, carbon dioxide, dry chemical.

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SPECIAL FIRE FIGHTING 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.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Decomposition and combustion products may be hazardous.

SECTION V – HEALTH HAZARDS

ROUTE(S) OF ENTRY : Skin contact, eye contact.
PRIME HAZARD(S) : Skin sensitizer and skin irritation.

EFFECTS OF EXPOSURE

Acute : Skin and eye irritation
Chronic : Prolonged or repeated contact with the skin or mucous membrane may result in irritant symptoms such as redness, blistering or dermatitis. Onset of symptoms may be delayed. Repeated skin contact may lead to irritation and to sensitization with possibly cross-sensitization to other epoxies. Product splashes in the eye may cause irritation.

EMERGENCY AND FIRST AID PROCEDURES

Inhalation : If symptoms are experienced, remove source of contamination and/or move victim to fresh air. If recovery is delayed or there are signs of distress obtain medical attention immediately.

Eye contact : Flush eyes with water for 15 minutes. Seek medical advice if any irritation persists.

Skin contact : Immediately remove excess with a clean cloth and wash skin thoroughly with soap and water. If irritation or inflammation persists, seek medical advice.

Ingestion : If swallowed, do not induce vomiting. Rinse mouth with water and drink plenty of water. Call TAMPA BAY Regional Poison Center (Tel.No.1-800-282-3171) and/or seek medical advice.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Skin and eye conditions.

SECTION VI – REACTIVITY DATA

STABILITY : Stable
STABILITY CONDITIONS TO AVOID : N.ap

INCOMPATIBILITY (MATERIALS TO AVOID CONTACT WITH)
Strong oxidizing agents, acids, bases and amines.

HAZARDOUS DECOMPOSITION PRODUCTS

Gaseous combinations of carbon, hydrogen and oxygen may occur at elevated temperatures (200°C).

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HAZARDOUS POLYMERIZATION

Hazardous polymerization will not occur when stored and used as directed.

POLYMERIZATION CONDITIONS TO AVOID

N.ap

SECTION VII – SPILL AND LEAK PROCEDURES

SPILLAGE

Absorb with an inert material (e.g. earth or sand). Sweep up, place into suitable labelled containers, seal and dispose of properly. Flush area with detergent and water.

WASTE DISPOSAL METHODS

Dispose of in accordance with Local, State and Federal Regulations.

SECTION VIII – SPECIAL PROTECTION INFORMATION

PERSONAL PROTECTIVE MEASURES

RESPIRATORY : In confined areas or where good natural/mechanical ventilation is not available an appropriate NIOSH or MSHA approved respirator should be worn.

SKIN : Impermeable gloves, such as Neoprene or Nitrile. Wash hands with soap and water and use hand cream. Suitable protective clothing to minimize skin contact. Remove contaminated clothing and wash before reuse.

EYE : Safety glasses or goggles. Eyewash station.

MECHANICAL PROTECTIVE MEASURES

VENTILATION : Where adequate natural ventilation is not available provide suitable local exhaust ventilation.

OTHER PROTECTIVE EQUIPMENT

: Where there is a risk of contamination of footwear, safety boots should be worn and cleaned thoroughly before reuse.

OTHER COMMENTS

: Where machining or abrading of cured material leads to the production of respirable and/or nuisance dust, an appropriate NIOSH or MSHA approved respirator should be worn.

SECTION IX – SAFE HANDLING AND STORAGE

HANDLING AND STORAGE PRECAUTIONS

HANDLING

Avoid contact with skin and eyes.

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STORAGE

Overheating may cause containers to rupture. Containers should be stored under cool, dry conditions. Empty containers will retain residue and may be dangerous. Check all containers for leaks at regular intervals and before use.

HYGIENE PRACTICES

When using, do not eat, drink or smoke. Remove contaminated clothing and launder before reuse. Wash hands with soap and water after handling this product.

SECTION X – REGULATORY INFORMATION

SARA TITLE III - NOTIFICATION OF TOXIC CHEMICALS

None of the constituents of this product are subject to reporting requirements under section 313 of the Superfund Amendment and Reauthorization Act of 1986 (40 CFR Part 372).

DISCLAIMER

To the best of our knowledge, the information contained herein is accurate. However, some of the information presented and conclusions drawn are derived from sources other than direct test data on the product itself and while Belzona Inc. believe such sources to be reliable, the information is provided without any warranty regarding its correctness. Since Belzona Inc. has no control over the conditions under which the product will be used, liability will not be assumed to exceed replacement or refund of the purchase price of this product. Except as stated herein, there are no express or implied warranties including implied warranties of merchantability or fitness for a particular purpose. Belzona Inc. assumes no liability for injury or incidental or consequential damage arising out of the storage, handling, use or disposal of this product.