

PRODUCT NUMBER : 3201/1348  
PRODUCT NAME : Belzona 4151 Base  
N.ap means Not Applicable

DATE PREPARED : 04-21-92  
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NIA means No Information Available

#### 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 America Inc. believe such sources to be reliable, the information is provided without any warranty regarding its correctness.

Since Belzona America 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 America Inc. assumes no liability for injury or incidental or consequential damage arising out of the storage, handling, use or disposal of this product.

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MATERIAL SAFETY DATA SHEET	
In compliance with OSHA 29 CFR 1910.1200	
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PREPARED BY: J. PARTINGTON	
DATE PREPARED : 04-21-92	PAGE 1 OF 4
BELZONA AMERICA INC., 2000 N.W. 88 COURT, MIAMI,  FL 33172	EMERGENCY PHONE NUMBERS DAY : 305-594-4994 NIGHT : 305-274-6512 INFORMATION PHONE NUMBER : 305-594-4994

### SECTION I - PRODUCT IDENTIFICATION

PRODUCT NUMBER : 3201/1348  
PRODUCT NAME : Belzona 4151 (Belzona Magma-Quartz) Base  
PRODUCT CLASS : Modified epoxide resin

### SECTION II - HAZARDOUS INGREDIENTS / TOXICOLOGICAL DATA

Hazardous Components	% by Weight	CAS Number	Exposure Limits			Toxicity		
			OSHA PEL mg/m3	ACGIH TLV ppm	LD50mg/Kg Oral	LC50ppm Dermal Inhal		
DGEBA-EPOXY RESIN	60-100	25068-38-6	NIA	NIA	NIA	>5000	>2000	NIA
o-CRESYL GLYCIDYL-ETHER	10-30	26447-14-3	NIA	NIA	NIA	5140	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 : Amber colored liquid with epoxy odor.  
BOILING POINT : Decomposes      SPECIFIC GRAVITY : 1.15  
VAPOR PRESSURE : NIA      VAPOR DENSITY : NIA  
EVAPORATION RATE : N.ap      %VOLATILE BY VOLUME : N.ap  
SOLUBILITY IN WATER : Negligible (<0.1%)

### SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT : >100°C      EXPLOSION LIMITS LOWER : NIA  
TEST METHOD : Pensky Martins      UPPER : NIA

OSHA FLAMMABILITY CLASS : NIA  
FLAMMABILITY INDEX (NFPA) : 1 Slight  
REACTIVITY INDEX (NFPA) : 1 Slight  
HEALTH HAZARD (NFPA) : 2 Moderate  
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, skin absorption, eye contact.  
PRIME HAZARD(S) : Skin sensitizer and skin irritation.

#### EFFECTS OF EXPOSURE

Acute : Skin and eye irritation  
Chronic: Irritation, sensitization and dermatitis

#### 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 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.

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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 (eg 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 PVC.  
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.