MATERIAL SAFETY DATA SHEET
In compliance with OSHA 29 CFR 1910.1200
N.ap means Not Applicable NIA means No Information Available

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 : 1407/0559
PRODUCT NAME : Belzona® 8111 (Mouldable Wood) Liquid
PRODUCT CLASS : Modified Polyester Resin

SECTION II - HAZARDOUS INGREDIENTS/TOXICOLOGICAL DATA

Hazardous Components	% by Weight	CAS Number	Exposure Limits OSHA PEL mg/m^3	ACGIH TLV ppm	ACGIH TLV mg/m^3	Toxicity LD_{50} Oral mg/Kg	LD_{50} Dermal mg/Kg	LC_{50} Inhal ppm
Styrene	10-30	100-42-5	215	50	213	5,000	NIA	5,600/4H

CARCINOGENICITY
No data is available for the mixture, however, Styrene is listed by IARC as a Group 2B: Possibly Carcinogenic to Humans substance.

SECTION III - PHYSICAL DATA

APPEARANCE AND ODOR : Clear brown liquid with styrene odor.
BOILING POINT : 145°C
SPECIFIC GRAVITY : 1.14
VAPOR PRESSURE : 4.5 mm Hg @ 20°C
VAPOR DENSITY : 3.6 (Air=1)
EVAPORATION RATE : 0.4 (BuAc=1)
% VOLATILE BY VOLUME : 10-30
SOLUBILITY IN WATER : Negligible (0.03g/100g H2O @ 20°C)

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT : 34°C
TEST METHOD : Setaflash
EXPLOSION LIMITS LOWER : 1.1
UPPER : 6.1

OSHA FLAMMABILITY CLASS : Flammable liquid - Class IC
FLAMMABILITY INDEX (NFPA) : 3 High
REACTIVITY INDEX (NFPA) : 2 Moderate
HEALTH HAZARD (NFPA) : 2 Moderate
EXTINGUISHING MEDIA : Water spray, fog or mist, foam, carbon dioxide, dry chemicals, sand etc.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Vapors can form explosive mix with air and vapors may travel considerable distance to any sources of ignition and flashback. Decomposition and combustion products may be hazardous.

SPECIAL FIRE FIGHTING PROCEDURES

Wear protective clothing and use self-contained breathing apparatus to protect against any toxic fumes evolved. Full bunker gear should be worn in extreme cases. Use sand to contain burning material. Cool containers exposed to flames with water. Keep run-off water out of sewers or water sources. If water pollution occurs, notify appropriate authorities immediately.

SECTION V - HEALTH HAZARDS

ROUTE(S) OF ENTRY : Inhalation, skin absorption, ingestion, skin and/or eye contact
PRIME HAZARD(S) : Irritation, CNS depressant and may cause other irreversible effects.

EFFECTS OF EXPOSURE

Acute	:	Skin, eye and respiratory tract irritation. Vapors are central nervous system (CNS) depressant, inhalation of vapors also causes nausea, vomiting, dizziness, disorientation and unconsciousness may occur at high concentrations.
Chronic	:	Irritation, 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 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, eye, respiratory tract and CNS conditions.

SECTION VI - REACTIVITY DATA

STABILITY : Stable
STABILITY CONDITIONS TO AVOID : N.ap

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

HAZARDOUS DECOMPOSITION PRODUCTS
Gaseous combinations of carbon, hydrogen and oxygen may occur at elevated temperatures.

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 : Not applicable under normal conditions of use.

SKIN : Impermeable gloves, such as Neoprene, Nitrile 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
: Not applicable.

OTHER COMMENTS
: Where 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.

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

Styrene, CAS number 100-42-5 a component of this product at 27% by weight, is 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.

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PREPARED BY : DR.W.R.ASHCROFT DATE PREPARED : 21 OCT 1997

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SECTION I - PRODUCT IDENTIFICATION

PRODUCT NUMBER : 1507/0278
PRODUCT NAME : Belzona® 8111 (Mouldable Wood) Powder
PRODUCT CLASS : Reactive Powder

SECTION II - HAZARDOUS INGREDIENTS/TOXICOLOGICAL DATA

Hazardous Components	% by Weight	CAS Number	Exposure Limits OSHA PEL mg/m^3	ACGIH TLV ppm	ACGIH TLV mg/m^3	Toxicity LD_{50} Oral mg/Kg	LD_{50} Dermal mg/Kg	LC_{50} Inhal ppm
Barium Sulfate	10-30	7727-43-7	10	N.ap	10	NIA	NIA	NIA
Calcium Sulfate	10-30	7778-18-9	15	N.ap	10	NIA	NIA	NIA
Talc	10-30	14807-96-6	2	N.ap	2	NIA	NIA	NIA
Benzoyl Peroxide	1-5	94-36-0	5	N.ap	5	>5,000	NIA	NIA
Soft Wood	30-60	9004-34-6	5	N.ap	5	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 : Off-white fibrous powder with little or no odor
BOILING POINT : N.ap
VAPOR PRESSURE : N.ap
EVAPORATION RATE : N.ap
SOLUBILITY IN WATER : Insoluble
SPECIFIC GRAVITY : 2.0
VAPOR DENSITY : N.ap
% VOLATILE BY VOLUME : N.ap

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT : N.ap
TEST METHOD : N.ap
EXPLOSION LIMITS LOWER : NIA
UPPER : NIA

OSHA FLAMMABILITY CLASS : N.ap
FLAMMABILITY INDEX (NFPA) : 1 Slight
REACTIVITY INDEX (NFPA) : 1 Slight
HEALTH HAZARD (NFPA) : 2 Moderate
EXTINGUISHING MEDIA : N.ap

SPECIAL FIRE FIGHTING PROCEDURES
Not flammable. If involved in a fire this product will contribute to the combustible material. Wear protective clothing and use self-contained breathing apparatus to protect against inhalation of decomposition/incomplete combustion products.

UNUSUAL FIRE AND EXPLOSION HAZARDS
As with other organic powders this product forms explosive air-dust mixtures.

SECTION V - HEALTH HAZARDS

ROUTE(S) OF ENTRY : Inhalation.
PRIME HAZARD(S) : N.ap

EFFECTS OF EXPOSURE
Acute : None known, any dust generated is generally considered to be a nuisance rather than a health hazard.
Chronic : Irritation, and dermatitis.

EMERGENCY AND FIRST AID PROCEDURES
Inhalation : If symptoms are experienced, 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 until free of contamination. Seek medical advice if any irritation persists.

Skin contact : Wash skin thoroughly with soap and water and apply hand cream. If any 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
None known.

SECTION VI - REACTIVITY DATA

STABILITY : Stable
STABILITY CONDITIONS TO AVOID : N.ap

INCOMPATIBILITY (MATERIALS TO AVOID CONTACT WITH)
Strong reducing agents and strong mineral acids.

HAZARDOUS DECOMPOSITION PRODUCTS
Gaseous combinations of carbon, hydrogen and oxygen.

HAZARDOUS POLYMERIZATION
N.ap

POLYMERIZATION CONDITIONS TO AVOID
N.ap

SECTION VII - SPILL AND LEAK PROCEDURES

SPILLAGE
Sweep up, place into suitable labelled containers, seal and dispose of properly.

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

SECTION VIII - SPECIAL PROTECTION INFORMATION

PERSONAL PROTECTIVE MEASURES

RESPIRATORY : Not applicable under normal conditions of use. If excessive dust is created use a dust mask.

SKIN : Not applicable under normal conditions of use. For sensitive or dry/chapped skin conditions use Neoprene, Nitrile or PVC gloves to minimise skin contact.

EYE : Safety glasses or goggles.

MECHANICAL PROTECTIVE MEASURES

VENTILATION : Not applicable under normal conditions of use.

OTHER PROTECTIVE EQUIPMENT
: Not applicable.

OTHER COMMENTS
: Where removing or abrading the product 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.

STORAGE
Containers should be stored under dry conditions.

HYGIENE PRACTICES

Avoid creating dust clouds when using this material. When using, do not eat or drink. Wash hands with soap and water after handling this product.

SECTION X - REGULATORY INFORMATION

SARA TITLE III - NOTIFICATION OF TOXIC CHEMICALS

Benzoyl peroxide, CAS number 94-36-0 a component of this product at 2.52% by weight, is subjected to the reporting requirements of section 313 of the Superfund Amendment and Reauthorization Act of 1986 (40 CFR Part 372).

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