

MATERIAL SAFETY DATA SHEET

In compliance with OSHA 29 CFR 1910.1200

N.ap means Not Applicable NIA means No Information Available

PREPARED BY: J. PARTINGTON

DATE PREPARED : 2-19-93

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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 : 1200/1300

PRODUCT NAME : Belzona 2911 (Belzona Elastomer QD Conditioner)

PRODUCT CLASS : Aromatic isocyanate

SECTION II - HAZARDOUS INGREDIENTS / TOXICOLOGICAL DATA

Hazardous Components	% by Weight	CAS Number	Exposure Limits			Toxicity		
			OSHA PEL mg/m3	ACGIH ppm	TLV mg/m3	LD50mg/Kg Oral	LC50ppm Dermal	Inhal
DIPHENYLMETHANE-DIISOCYANATE (MDI)	5-10	101-68-8	0.2	0.005	0.051	31690	NIA	NIA
1,1-DICHLORO-1-FLUOROETHANE	60-100	1717-00-6	NIA	500*	NIA	NIA	NIA	NIA

* 8Hr TWA set by the ACGIH WEEL Committee.

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 : Clear brown liquid with slight odor.
 BOILING POINT : 32°C SPECIFIC GRAVITY : 1.12
 VAPOR PRESSURE : 520mm Hg @ 20°C VAPOR DENSITY : 4.1 (air=1)
 EVAPORATION RATE : NIA %VOLATILE BY VOLUME : 60-100
 SOLUBILITY IN WATER : Negligible (<0.1%)

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT : N.ap EXPLOSION LIMITS LOWER : 7.6%
 TEST METHOD : Not applicable UPPER : 17.7%

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

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EXTINGUISHING MEDIA : Water fog (not a direct stream of water), foam,
carbon dioxide, dry chemical.

SPECIAL FIRE FIGHTING PROCEDURES

Wear protective clothing and use self-contained breathing apparatus to protect against inhalation of poisonous vapors and other decomposition/combustion products. Full bunker gear should be worn in extreme cases. Use sand to contain burning material.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Not flammable, however vapors can form explosive mixture with air. Decomposition (>250°C) and combustion products will be hazardous.

SECTION V - HEALTH HAZARDS

ROUTE(S) OF ENTRY : Skin contact, skin absorption and inhalation.
PRIME HAZARD(S) : Respiratory and skin sensitizer.

EFFECTS OF EXPOSURE

Acute : Skin, eye and respiratory tract irritation - symptoms can be delayed up to several hours after exposure.
Vapors are narcotic and a central nervous system depressant. Causes drowsiness, dizziness, nausea and unconsciousness in high concentrations.
Chronic: Chemical asthma, 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, eye and respiratory conditions.

SECTION VI - REACTIVITY DATA

STABILITY : Stable but store below 30°C due to low boiling point.
STABILITY CONDITIONS TO AVOID : Avoid sources of ignition such as sparks, hot spots, welding, flames and cigarettes. Explosions may result if vapor concentration is within the explosion limits, Non-explosive concentrations of vapor may yield toxic and/or corrosive decomposition products.

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INCOMPATIBILITY (MATERIALS TO AVOID CONTACT WITH)

Water (Carbon dioxide evolved), strong oxidizers, alcohol or amines.
Reactive metals ie powdered or freshly abraded aluminium, sodium,
potassium, calcium, magnesium, zinc etc.

HAZARDOUS DECOMPOSITION PRODUCTS

Gaseous combinations of carbon, hydrogen, chlorine, fluorine, nitrogen
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 a dry inert material (eg sand). Sweep up, place into
suitable labelled containers, seal and dispose of properly. Flush area
with dilute ammonium hydroxide or water-alcohol mixture.

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, leading to a risk of exceeding
the TLV's indicated, an appropriate NIOSH or MSHA approved
respirator should be worn.

SKIN : Impermeable gloves, such as Viton, 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.

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 SECTION IX - SAFE HANDLING AND STORAGE

 HANDLING AND STORAGE PRECAUTIONS
 HANDLING

Open containers with care, pressure build up may occur due to the low boiling point of the solvent present in this product.
 Avoid breathing vapors and contact with skin and eyes.

STORAGE

Store and open at below 30°C. Overheating may cause containers to rupture. Unopened 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

This product contains the following substances subject to the reporting requirements of section 313 of the Superfund Amendment and Reauthorization Act of 1986 (40 CFR Part 372).

CHEMICAL NAME	CAS NUMBER	CONCENTRATION
Diphenylmethanediisocyanate	101-68-8	8.75%

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.

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