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 : 9 FEB 2000

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 : 1200/1300
PRODUCT NAME : Belzona® 2911 (Elastomer QD Conditioner)
PRODUCT CLASS : Aromatic isocyanate

SECTION II - HAZARDOUS INGREDIENTS/TOXICOLOGICAL DATA

Hazardous Components	% by Weight	CAS Number	Exposure Limits OSHA PEL mg/m^3	Exposure Limits ACGIH TLV ppm	Exposure Limits ACGIH TLV mg/m^3	Toxicity LD_{50} Oral mg/Kg	Toxicity LD_{50} Dermal mg/Kg	Toxicity LC_{50} Inhal ppm
Diphenylmethane-diisocyanate (MDI)	8.75	101-68-8	0.2	0.005	0.051	>5000	NIA	NIA
1,1-Dichloro-1-fluoroethane	74.8	1717-00-6	NIA	500*	NIA	>5000	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
VAPOR PRESSURE : 520mm Hg @ 20°C
EVAPORATION RATE : NIA
SOLUBILITY IN WATER : Negligible (<0.1%)
SPECIFIC GRAVITY : 1.12
VAPOR DENSITY : 4.1 (air=1)
% VOLATILE BY VOLUME : 60-100

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

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

OSHA FLAMMABILITY CLASS : N.ap
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.

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 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 and respiratory sensitization.

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. Danger of aspiration of vapours if vomiting occurs. Rinse mouth with water and drink plenty of water. Call TAMPA BAY Regional Poison Center (Tel.No.1-800-282-3171) and seek medical attention immediately.

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.

INCOMPATIBILITY (MATERIALS TO AVOID CONTACT WITH)
Water (Carbon dioxide evolved), strong oxidizers, alcohol or amines. Reactive metals i.e. 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 (e.g. 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 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.

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 (MDI)	101-68-8	8.75%
1,1-Dichloro-1-fluoroethane	1717-00-6	74.8%

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.