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MATERIAL SAFETY DATA SHEET

In compliance with OSHA 29 CFR 1910.1200

EMERGENCY PHONE NUMBERS

N.ap means Not Applicable NIA means No Information Available PREPARED BY : N.A.ROBINSON DATE PREPARED: 3 APRIL 2001

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BELZONA INC.,

2000 N.W. 88 COURT,

(Spill, Leak, Fire, Exposure or Accident)

800 424 9300 - Toll free in United States

MIAMI, FL 33172 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

1105/1321

PRODUCT NAME

Belzona® 1221 (Super E-Metal) Solidifier

PRODUCT CLASS Polyisocyanate

SECTION II - HAZARDOUS INGREDIENTS/TOXICOLOGICAL DATA

Hazardous Components	% by Weight	CAS Number	Ex OSHA PEL mg/m³	posure ppm	Limits ACGIH TLV mg/m ³	Oral	Toxicity) _{so} Dermal g/Kg	LC_{50}
DGEBA-Epoxy Resin Hexamethylene-	1-5	25068-38-6	NIA	NIA	NIA	5000	2000	NIA
Diisocyanate (HDI) Aliphatic poly-	0.1-1	822-06-0	NIA	NIA	0.005ppm	710	570	310-350mg/m ³
isocyanate Modified Silica	60-100 5-10	28182-81-2 67762-90-7	NIA N.ap	NIA N.ap	NIA N.ap	NIA NIA	NIA 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 paste with slight odor.

BOILING POINT VAPOR PRESSURE

>200°C

SPECIFIC GRAVITY

1.21

EVAPORATION RATE

0.05mm Hg @ 25°C

VAPOR DENSITY

Heavier than air

NIA

% VOLATILE BY VOLUME :

SOLUBILITY IN WATER : Reacts

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT : >165°C

EXPLOSION LIMITS

LOWER

NIA

TEST METHOD : Closed cup

UPPER

NIA

1105/1321

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OSHA FLAMMABILITY CLASS FLAMMABILITY INDEX (NFPA) REACTIVITY INDEX (NFPA)

: N.ap : 1 Slight : 1 Slight

HEALTH HAZARD (NFPA)

: 2 Moderate

EXTINGUISHING MEDIA : Use: sand, alcohol resistant foam, carbon dioxide, chemical

powder, water fog for larger fires. Do NOT use water jet.

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

Decomposition and combustion products may be hazardous.

SECTION V - HEALTH HAZARDS

ROUTE(S) OF ENTRY

: Skin contact, skin absorption, eye contact, inhalation.

PRIME HAZARD(S)

: Skin sensitizer, Irritant.

EFFECTS OF EXPOSURE

Acute

: Irritating to eyes and skin.

Chronic

There is no data on the product itself. 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. Causes of allergic skin reaction have been observed.

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

Persons with a history of skin sensitization problems should only be employed in processes in which this product is used under appropriate medical supervision.

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SECTION VI - REACTIVITY DATA

STABILITY: Stable

STABILITY CONDITIONS TO AVOID: N.ap

INCOMPATIBILITY (MATERIALS TO AVOID CONTACT WITH)

Water (Carbon dioxide evolved), strong exidizers, alcohol or amines, under uncontrolled conditions.

HAZARDOUS DECOMPOSITION PRODUCTS

Gaseous combinations of carbon, hydrogen, 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

DECOUNTED TO LEGITATIONES

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.

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OTHER PROTECTIVE EQUIPMENT

: Where there is a risk of contamination of footwear, safety boots should be worn and cleaned thoroughly before reuse. Cotton or cotton/synthetic overalls or coveralls are normally suitable. Grossly contaminated clothing should be removed and the skin washed with soap and water or a proprietary skin cleaner.

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

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Avoid breathing vapors and contact with skin and eyes.

STORAGE

Overheating may cause containers to rupture. Unopened containers should be stored under cool, dry conditions. 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.

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