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

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SECTION I - PRODUCT IDENTIFICATION

PRODUCT NUMBER : 3207/1308
PRODUCT NAME : Belzona® 4211 (Magma-Stop)
PRODUCT CLASS : Reactive Aggregate

SECTION II - HAZARDOUS INGREDIENTS/TOXICOLOGICAL DATA

Hazardous Components	% by Weight	CAS Number	Exposure Limits OSHA PEL mg/m^3	ACGIH (TWA)TLV ppm	ACGIH (TWA)TLV mg/m^3	Toxicity LD_{50} Oral mg/Kg	LD_{50} Dermal mg/Kg	LC_{50} Inhal ppm
Portland cement	30-60	65997-15-1	N.ap	1765	10	NIA	NIA	NIA
Calcium hydroxide	5-10	1305-62-0	5(R)	N.ap	5	7340	NIA	NIA
Quartz	30-60	14808-60-7	0.64(TD)	N.ap	N.ap	NIA	NIA	NIA

CARCINOGENICITY
No data is available for the mixture. Quartz is listed by ACGIH as 'A2' suspected human carcinogen. The risk is associated with the inhalation of the respirable dust fraction. The quartz contained within this product is very unlikely to be a risk due to physical form (see Section III).
(R) = Respirable dust.
(TD) = Total dust.

SECTION III - PHYSICAL DATA

APPEARANCE AND ODOR : Gray, granular, powder dust with little or no odor
BOILING POINT : N.ap
VAPOR PRESSURE : N.ap
EVAPORATION RATE : N.ap
SOLUBILITY IN WATER : Reacts
SPECIFIC GRAVITY : 1.35 (bulk)
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) : 0 Nil
REACTIVITY INDEX (NFPA) : 0 Nil
HEALTH HAZARD (NFPA) : 2 Moderate
EXTINGUISHING MEDIA : N.ap

SPECIAL FIRE FIGHTING PROCEDURES
Not flammable. If involved in a fire this product will not contribute to the combustible material. However, special fire-fighting procedures may be required for the other materials involved.

UNUSUAL FIRE AND EXPLOSION HAZARDS
N.ap.

SECTION V - HEALTH HAZARDS

ROUTE(S) OF ENTRY : Skin, eye contact, inhalation, ingestion.
PRIME HAZARD(S) : Chemical burns, Sensitization.

EFFECTS OF EXPOSURE
Acute : Irritating to skin, eyes and respiratory system.
Chronic : There is no data on the product itself. Cements are known to cause both irritant and allergic contact dermatitis. Prolonged skin contact can result in chemical burns. Quartz is listed by ACGIH as 'A2' suspected human carcinogen. The risk is associated with the inhalation of the respirable dust fraction.

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 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
STABILITY CONDITIONS TO AVOID : N.ap

INCOMPATIBILITY (MATERIALS TO AVOID CONTACT WITH)
Water and strong mineral acids.

HAZARDOUS DECOMPOSITION PRODUCTS
N.ap

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 : Dust respirator.

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 : Adequate exhaust ventilation should be provided especially if there is a danger of creating dust clouds.

OTHER PROTECTIVE EQUIPMENT

: 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 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. Do not breathe dust.

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. 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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