



**SAFETY DATA SHEET**  
**BELZONA® 2211 (MP HI-BUILD ELASTOMER) SOLIDIFIER**

**1. Identification****Product identifier**

**Product name** BELZONA® 2211 (MP HI-BUILD ELASTOMER) SOLIDIFIER  
**Product number** SN2778

**Recommended use of the chemical and restrictions on use**

**Application** Multi-purpose system for repairing and rebuilding rubber components. For industrial use only.  
**Uses advised against** The product should not be used for purposes other than those recommended in the appropriate Instructions For Use (IFU) leaflet.

**Details of the supplier of the safety data sheet**

<b>Supplier</b>	Belzona Inc. 14300 NW 60th Ave. Miami Lakes FL 33014 USA 1-305-594-4994 sds@belzona.com	Belzona Canada Inc. 51-588 Edward Avenue Richmond Hill Ontario, L4C 9Y6 CANADA 1-905-737-2225 sds@belzona.com
<b>Manufacturer</b>	Belzona Polymerics Limited Claro Road, Harrogate HG1 4DS United Kingdom +44 1423 567641 sds@belzona.com	

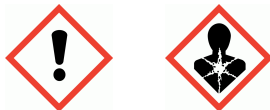
**Emergency telephone number**

**Emergency telephone** ChemTel: 1-800-255-3924 (North America)  
ChemTel: +1 813-248-0585 (International)

**2. Hazard(s) identification****Classification of the substance or mixture**

**OSHA Regulatory Status** This Product is Hazardous under the OSHA Hazard Communication Standard.  
**Physical hazards** Not Classified  
**Health hazards** Eye Irrit. 2A - H319 STOT RE 2 - H373

**Reference** The full text for all hazard statements is displayed in Section 16.

**Label elements****Hazard symbols**

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<b>Signal word</b>	Warning
<b>Hazard statements</b>	H319 Causes serious eye irritation. H373 May cause damage to organs (Pancreas) through prolonged or repeated exposure.
<b>Precautionary statements</b>	P264 Wash hands thoroughly after handling. P280 Wear protective gloves, protective clothing and eye protection. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P314 Get medical attention if you feel unwell. P337+P313 If eye irritation persists: Get medical attention. P501 Dispose of contents/container in accordance with all Federal, State/Provincial and local regulations.
<b>Contains</b>	DIETHYLMETHYLBENZENEDIAMINE
<b>Other hazards</b>	
May be harmful in contact with skin.	
<b>Hazards not otherwise classified (HNOC)</b>	Not applicable.

### 3. Composition/information on ingredients

#### Mixtures

DIETHYLMETHYLBENZENEDIAMINE CAS number: 68479-98-1	5-15%
POLYETHER POLYOL CAS number: 25322-69-4	5-10%
AMINES, N-C16-C18-ALKYL-(EVENNUMBERED, C18 UNSATURATED) PROPANE-1,3-DIAMINIUM DI (9Z)-OCT CAS number: 61791-53-5	<1%
<b>Classification</b> Skin Irrit. 2 - H315 Eye Irrit. 2A - H319 STOT RE 2 - H373 Not relevant.	

The full text for all hazard statements is displayed in Section 16.

### 4. First-aid measures

#### Description of first aid measures

<b>General information</b>	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
<b>Inhalation</b>	Remove to fresh air. Keep the patient warm and at rest. Give nothing by mouth.
<b>Ingestion</b>	If accidentally swallowed obtain immediate medical attention. Keep at rest. Rinse mouth with plenty of water. Do NOT induce vomiting.

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**Skin Contact** Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use a proprietary skin cleaner. Do NOT use solvents or thinners. If irritation or inflammation persists, seek medical attention.

**Eye contact** Contact lenses should be removed. Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart, and seek medical advice.

### Most important symptoms and effects, both acute and delayed

**Ingestion** May cause discomfort if swallowed.

**Skin contact** 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. There is a risk of damage to the blood (methaemoglobinaemia) following single exposure to even small quantities. Onset of symptoms may be delayed.

**Eye contact** Irritating to eyes.

### Indication of immediate medical attention and special treatment needed

**Notes for the doctor** None.

## 5. Fire-fighting measures

### Extinguishing media

**Suitable extinguishing media** Use: sand, alcohol resistant foam, carbon dioxide, chemical powder, or water fog for larger fires.  
Do NOT use water jet.

### Special hazards arising from the substance or mixture

**Flammability Class** 3.2 Combustible Liquid IIIB

**Hazardous combustion products** In a fire, hazardous decomposition products such as smoke, carbon monoxide, carbon dioxide, oxides of nitrogen and ammonia may be produced.

### Advice for firefighters

**Protective actions during firefighting** Fire will produce dense black smoke containing hazardous products of combustion. Exposure to decomposition products may be a hazard to health. Appropriate positive-pressure self-contained breathing apparatus (SCBA) and full fire fighting turn-out gear (Bunker gear) should be worn. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains, sewers, ditches or waterways.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**Personal precautions** Exclude non-essential personnel. Keep up-wind of spill to avoid breathing vapors. Do not get on skin or in eyes.

### Environmental precautions

**Environmental precautions** Prevent product entering drains or sewers. In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

### Methods and material for containment and cleaning up

**Methods for cleaning up** Scrape the majority of the product into a suitable labeled container. Cover the spill area with sand or other suitable inert material and sweep up into the container. Clean surfaces down with a water and detergent mixture. Do not allow spilled product or the associated washings to enter surface water drains or watercourses.

**Reference to other sections** For personal protection, see Section 8. For waste disposal, see section 13. .

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### 7. Handling and storage

#### Precautions for safe handling

##### **Usage precautions**

Keep the container tightly closed when not in use. Vapors may collect in the container headspace during transit or prolonged storage. Avoid breathing vapor when opening the container. Where possible open containers and mix components in a well ventilated place away from the application area. Exclude non-essential personnel. Minimise the number of employee exposed and the duration of their exposure. Do not get on skin or in eyes. Smoking, eating and drinking should be prohibited in areas of storage and use. For personal protection see Section 8. Always keep in containers made of the same material as the supply container. Ensure emergency equipment (for fires, spills, leaks, etc.) is readily available. Good housekeeping methods and regular safe removal of waste materials should be observed. **FIRE/EXPLOSION** This product is combustible. Exclude sources of heat, sparks and open flame. **SPECIAL** In cold conditions to ease mixing, containers should be allowed to reach room temperature in a warm ventilated store inside the work place. Do not breathe vapors/mists.

##### **Advice on general occupational hygiene**

Wash at the end of each work shift and before eating, smoking and using the toilet. Ensure eye wash facilities (fountain, bottle, vials, etc.) are readily available. Do not put contaminated articles or equipment e.g. spatulas, applicators, brushes, cloths etc., into pockets. Where necessary, contaminated work clothing and shoes should be removed to prevent cross contamination of surfaces and the risk of inadvertent skin contact and ingestion.

#### Conditions for safe storage, including any incompatibilities

##### **Storage precautions**

Observe the label precautions. Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorised access. Store separately from oxidizing agents and strongly alkaline and strongly acidic materials. **ENVIRONMENTAL STORAGE PRECAUTIONS** Spillage, incorrect storage of chemicals or waste materials or unsuitable disposal activities can result in pollutants seeping through the soil, causing serious harm to groundwater- which is a vital source of drinking water. All wastes, especially liquid wastes, should be securely stored on site in designated areas that are isolated from waterways and groundwater and diked to contain any spillages.

#### Specific end uses(s)

##### **Specific end use(s)**

Application by plastic applicator or spatula provided. Mix with Base component before use. Please refer to the relevant Belzona® Instructions For Use for further information.

### 8. Exposure controls/Personal protection

##### **Ingredient comments**

No exposure limits known for ingredient(s).

#### Exposure controls

##### **Appropriate engineering controls**

Use in well ventilated areas or provide adequate mechanical ventilation.

##### **Eye/face protection**

It is recommended that eye protection, for example safety glasses with side shields or goggles are worn at all times during the handling and use of this material. .

##### **Hand protection**

. The breakthrough time of the gloves selected should exceed the expected use period. Where this is not possible, gloves should be changed in good time, and in any case before the breakthrough time is exceeded. Where doubt exists, advice should be sought from manufacturers or vendors of protective gloves in order to determine appropriate types for the particular circumstances. Barrier creams may help to protect exposed areas of skin but are not substitutes for full physical protection. They should not be applied once exposure has occurred. **SPECIFIC RECOMMENDATIONS** Wear protective gloves made of the following material: Nitrile rubber. **STANDARD APPLICATIONS / EMERGENCY SITUATIONS** Medium-heavy weight gauntlet type gloves that provide wrist protection are suitable.

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<b>Other skin and body protection</b>	STANDARD APPLICATIONS Synthetic polyethylene coveralls such as the Tyvek PRO-TECH® or equivalent coveralls manufactured to provide protection against liquid chemicals should be worn. Grossly contaminated clothing should be removed and the skin washed with soap and water or a proprietary skin cleaner. APPLICATION OF SMALL QUANTITIES Cotton overalls are normally suitable.
<b>Respiratory protection</b>	Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Respirator selection must be based on exposure levels, the hazards of the product and the safe working limits of the selected respirator. Respiratory protection is not normally required, but the hazards of the Base component should be considered for mixing and application purposes.
<b>Immediate danger to life and health</b>	Where entry into unknown or Immediately Dangerous To Life or Health (IDLH) atmospheres is required, an OSHA/NIOSH approved pressure-demand self-contained breathing apparatus (SCBA) with a full facepiece or a pressure-demand supplied-air respirator (SAR) with a full facepiece in combination with an auxiliary pressure-demand SCBA respirator should be worn.

### 9. Physical and chemical properties

#### Information on basic physical and chemical properties

<b>Appearance</b>	Paste.
<b>Color</b>	White.
<b>Odor</b>	Odorless.
<b>Odor threshold</b>	Not applicable.
<b>pH</b>	Not applicable.
<b>Melting point</b>	Not available.
<b>Initial boiling point and range</b>	>250°C/>482°F @ 760 mm Hg
<b>Flash point</b>	>100°C/>212°F Closed cup.
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	Not applicable.
<b>Vapor pressure</b>	Low.
<b>Vapor density</b>	> 1
<b>Relative density</b>	1.38 - 1.48 @ 20°C/68°F
<b>Solubility(ies)</b>	Partially miscible with water.
<b>Partition coefficient</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition Temperature</b>	Not available.
<b>Viscosity</b>	Not available.
<b>Explosive properties</b>	Not applicable.
<b>Oxidizing properties</b>	Not applicable.
<b>Other information</b>	This section contains typical values for Health, Safety and Environmental guidance only and is not intended to represent a technical specification for the product.

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### 10. Stability and reactivity

<b>Reactivity</b>	There are no known reactivity hazards associated with this product.
<b>Stability</b>	Stable under recommended storage and handling conditions (see Section 7).
<b>Possibility of hazardous reactions</b>	No hazardous reactions expected when stored and handled as recommended.
<b>Conditions to avoid</b>	There are no known conditions that are likely to result in a hazardous situation.
<b>Materials to avoid</b>	Keep away from oxidizing agents and strongly alkaline and strongly acidic materials to prevent the possibility of exothermic reaction.
<b>Hazardous decomposition products</b>	Does not decompose when used and stored as recommended.

### 11. Toxicological information

#### Information on toxicological effects

##### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** Based on available data the classification criteria are not met.

##### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** Based on available data the classification criteria are not met.

##### Acute toxicity - inhalation

**Notes (inhalation LC<sub>50</sub>)** Based on available data the classification criteria are not met.

##### Skin corrosion/irritation

**Animal data** Based on available data the classification criteria are not met.

##### Serious eye damage/irritation

**Serious eye damage/irritation** Irritating to eyes.

##### Respiratory sensitization

**Respiratory sensitization** Based on available data the classification criteria are not met.

##### Skin sensitization

**Skin sensitization** Based on available data the classification criteria are not met.

##### Germ cell mutagenicity

**Genotoxicity - in vitro** Based on available data the classification criteria are not met.

**Genotoxicity - in vivo** Based on available data the classification criteria are not met.

##### Carcinogenicity

**Carcinogenicity** Based on available data the classification criteria are not met.

**IARC carcinogenicity** Not listed.

**NTP carcinogenicity** Not listed.

**OSHA Carcinogenicity** Not listed.

##### Reproductive toxicity

**Reproductive toxicity - fertility** Based on available data the classification criteria are not met.

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**Reproductive toxicity - development** Based on available data the classification criteria are not met.

### Specific target organ toxicity - single exposure

**STOT - single exposure** Based on available data the classification criteria are not met.

### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** Harmful: danger of serious damage to health by prolonged exposure if swallowed.

**Target organs** Pancreas

### Aspiration hazard

**Aspiration hazard** Based on available data the classification criteria are not met.

**Route of exposure** Ingestion Skin and/or eye contact

### Toxicological information on ingredients.

#### DIETHYLMETHYLBENZENEDIAMINE

**Toxicological effects** Remarks: \* Aerosol May cause skin sensitization in susceptible individuals. May be absorbed through the skin. There is a risk of damage to the blood (methaemoglobinaemia) following single exposure to even small quantities. Onset of symptoms may be delayed. After prolonged exposure of rats in their feed signs of serious damage to health were observed (pancreas atrophy).

#### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 738.0

**Species** Rat

#### Acute toxicity - dermal

**Acute toxicity dermal (LD<sub>50</sub> mg/kg)** 2,000.0

**Species** Rabbit

## 12. Ecological information

**Ecotoxicity** There is no data on the product itself. The following information is provided on the basis of the individual component data available.

**Toxicity** Based on the diethylmethylbenzenediamine content, this product is expected to have experimental LC50/EC50/IC50 values between 1 and 10 mg/l in most sensitive species.

### Persistence and degradability

**Persistence and degradability** Based on the individual component data, the product is not expected to be rapidly biodegradable according to OECD/EC guidelines.

### Bioaccumulative potential

**Bio-Accumulative Potential** Based on the individual component data, the product is expected to bioaccumulate.

**Partition coefficient** Not available.

### Mobility in soil

**Mobility** There is no data available on the product itself.

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### Other adverse effects

Other adverse effects                      None known.

### 13. Disposal considerations

#### Waste treatment methods

**Disposal methods**                      Do NOT dump into any sewers, on the ground, or into any body of water. Controlled wastes include non-hazardous industrial and hazardous chemical wastes. Disposal must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations are the responsibility solely of the waste generator. . . COMPONENT DISPOSAL TRANSIT PACKAGING: shrink or stretch wrap, boxes and fittings that have not been contaminated with product should be re-used or recycled. UNREACTED PRODUCT, uncleaned containers and contaminated packaging may qualify as hazardous chemical waste as defined in 40 CFR 261.20-24. REACTED PRODUCT, that has been mixed and cured in accordance with the relevant 'Instructions For Use' will form an inert filled polymeric compound that may be able to be disposed of as non-hazardous solid waste. Refer to your local licensed, permitted waste agent or facility.

**Waste class**                                . . Waste class is not relevant. .

### 14. Transport information

**General**                                      Labeling and packaging requirements may vary with pack and load size. Please refer to the current transport regulations. Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of accident or spillage.

#### UN Number

**UN No. (TDG)**                              Not applicable.

**UN No. (IMDG)**                            3082

**UN No. (ICAO)**                            3082

**UN No. (DOT)**                              Not applicable.

#### UN proper shipping name

**Proper shipping name (TDG)**          Not applicable.

**Proper shipping name (IMDG)**          Environmentally hazardous substance, liquid, n.o.s. (containing Diethylmethylbenzenediamine mixture)

**Proper shipping name (ICAO)**          Environmentally hazardous substance, liquid, n.o.s. (containing Diethylmethylbenzenediamine mixture)

**Proper shipping name (DOT)**          Not applicable.

#### Transport hazard class(es)

**DOT hazard class**                          Not applicable

**TDG class**                                    Not applicable.

**IMDG Class**                                  9

**ICAO class/division**                      9

#### Packing group

**TDG Packing Group**                      Not applicable.

**IMDG packing group**                      III



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ICAO packing group III

DOT packing group Not applicable.

**Environmental hazards****Environmentally Hazardous Substance**

Yes. Not a marine pollutant under US DOT.

**Special precautions for user**

Not applicable.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not carried in bulk.

**15. Regulatory information****US Federal Regulations****SARA 313 Emission Reporting**

SECTION 313: This product does not contain toxic chemical subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR Part 372.

**SARA (311/312) Hazard Categories**

Chronic

**US State Regulations**

**State Regulations Comments** U.S California Safe Drinking Water & Toxic Enforcement Act (Proposition 65): To the best of our knowledge, this product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.

**Inventories****Canada - DSL/NDSL**

All the ingredients are listed or exempt.

**US - TSCA**

All the ingredients are listed or exempt.

**16. Other information****General information**

The information contained within this safety data sheet does not constitute the users own assessment of workplace risks as may be required by other Local Regulations. As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant Local Regulations are complied with. 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. believes 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.

**Key literature references and sources for data** . . . . .

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<b>Training advice</b>	For further information please contact your supplier, Belzona consultant or Belzona direct.
<b>Revision comments</b>	REVISION. This safety data sheet has been revised in the following Section(s): 3, 8, Please observe the REVISION DATE. Should you be reading a material safety data sheet that is more than 24 months old or have concerns over its validity, please contact your local Belzona Distributor or Belzona direct (sds@belzona.com) and the most current information will be sent to you.
<b>Revision date</b>	10/6/2020
<b>Revision</b>	2.5
<b>SDS No.</b>	11557
<b>SDS status</b>	English (North American). Approved.
<b>Hazard statements in full</b>	H315 Causes skin irritation. H319 Causes serious eye irritation. H373 May cause damage to organs (Pancreas) through prolonged or repeated exposure. H373 May cause damage to organs through prolonged or repeated exposure.
<b>NFPA - health hazard</b>	Irritation, minor residual injury. (1)
<b>NFPA - flammability hazard</b>	Burns only if pre-heated. (1)
<b>NFPA - instability hazard</b>	Normally stable. (0)