SECTION 1- PRODUCT AND COMPANY IDENTIFICATION

Supplier
Company: H.B. Fuller Company  
Address: 16-20 Red Gum Drive, Dandenong South Vic. AUSTRALIA  
Telephone: (03) 9797 6222  
Emergency Telephone No. Australia : 1800 033 111

Product
Product Name: Maxbond Pro  
Other Names: One Component Polyurethane Foam Adhesives  
Manufacturer’s Code: None

Use
Used by the building industry in tilt-up slab construction as a fire resistant joint sealant.  
apply directly from cartridge using a caulking gun and tool off with a trowel.

SECTION 2- HAZARDS IDENTIFICATION

2.1 Classification of substance or mixture
Product definition: Mixture  
Classification:  
Gases Under Pressure- Compressed Gas  
Acute Toxicity Inhalation- Category 4  
Skin Irritation- Category 2  
Serious Eye Irritation- Category 2A  
Respiratory Sensitizing- Category 1  
Skin Sensitization – Category 1  
Specific Target Organ Toxicity SE 3  
Reproductive toxicity- Effects on or via lactation  
Specific Target Organ Toxicity RE 2  
Aquatic Chronic- Category 4

2.2 Label elements

Hazard Symbols:

Signal Word: WARNING

Hazard Statements:
H280- Contains gas under pressure; may explode if heated  
H315- Causes Skin Irritation  
H317- May cause an allergic skin reaction  
H319- Causes Serious Eye Irritation  
H332- Harmful if inhaled  
H334- May cause allergy or asthma symptoms or breathing difficulties if inhaled  
H335- May cause respiratory irritation  
H362- May cause harm to breastfed children  
H373- May cause damage to organs through prolonged or repeated exposure  
H413- May cause long lasting harmful effects to aquatic life

Prevention:
P102- Keep Out of Reach of Children  
P202- Do not handle until all safety precautions have been read and understood  
P251- Pressurized Container: Do not pierce or burn, even after use  
P261- Avoid breathing vapors or fumes  
P262- Do not get in eyes, on skin, or on clothing  
P264- Wash hands and other skin areas exposed to material thoroughly after handling  
P271- Use only outdoors or in a well-ventilated area  
P273- Avoid release to the environment
4.3 Notes to the physician

Symptoms may not appear immediately. If case of an accident or if you feel unwell, seek medical advice immediately (show label or SDS if possible).
SECTION 5- FIRE FIGHTING MEASURES

5.1 Extinguishing media
Suitable methods of extinction: Use dry chemical, carbon dioxide, foam, Halon 1211 and water spray or fog.
Unsuitable methods of extinction: Do not use water jets and high pressure water as these may spread the fire

5.2 Special hazards arising from the substance or mixture
Contains compressed gas. Eliminate all ignition sources. Closed containers may explode due to buildup of pressure when exposed to extreme heat. Aerosol cans exposed to fire or high temperature can rupture and rocket. Cured foam will burn in the presence of heat, oxygen and an ignition source.

5.3 Advice to firefighters
Products of combustion: May include and are not limited to: oxides of carbon, oxides of nitrogen, hydrogen fluoride, and traces of hydrogen cyanide.
Keep upwind of fire. Wear full fire-fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA). Use water spray to keep fire-exposed containers cool. Containers may explode if heated.

SECTION 6- ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate sources of ignition.

6.2 Environmental precautions
Do not allow to enter sewers, drains, or waterways

6.3 Methods and materials for containment and cleaning up

Method for containment: Uncured product is very sticky: carefully remove the bulk of the foam by scraping it up and then immediately remove the residue with a rag and solvent such as Handi-Cleaner, mineral spirits, acetone (nail polish remover), paint thinner, etc. Once the product is cured it can only be removed mechanically by scraping, buffing, etc. Use appropriate PPE.

Methods for cleaning up: Scoop up material and place in a disposal container. Dispose of as plastic waste in accordance with all applicable guidelines and regulations. Vapors can accumulate in low areas. Provide ventilation

6.4 Reference to other sections
For indications about waste treatment, see Section 13

SECTION 7- HANDLING AND STORAGE

7.1 Precautions for safe handling
Pressurized container: do not pierce or burn, even after use. Container may explode if heated. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapors/spray. Do not swallow. Use only in a well-ventilated area or outdoors. Avoid welding or other hot work in the vicinity of exposed cured foam. When using do not eat, drink or smoke. (See section 8)

General hygene advice: Launder contaminated clothing before reuse. Wash hands before eating, drinking or smoking.

7.2 Conditions for safe storage including any incompatibilities
Store in a dry place. Ideal use temperature is 65°F to 80°F (18°C to 27°C). Do not expose aerosol cans to open flame or store at temperatures above 122°F (50°C). Excessive heat can cause premature aging of components resulting in a shorter shelf life. Storage below 55°F (12.7°C) may affect foam quality if chemicals are not warmed to room temperature before using. Protect containers from physical abuse. Keep containers upright. KEEP AWAY FROM CHILDREN.

SECTION 8- EXPOSURE CONTROLS/ PERSONAL PROTECTION

8.1 Control Parameters

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Ingredient</th>
<th>OSHA-PEL TWA</th>
<th>ACGIH-TLV</th>
<th>NIOSH/ Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>101-68-8</td>
<td>4,4'-Diphenylmethane diisocyanate</td>
<td>0.02 ppm; 0.2 mg/m³ Ceiling</td>
<td>0.005 ppm; 0.051 mg/m³ (8 hours) TWA</td>
<td>0.005 ppm; 0.050 mg/m³ TWA</td>
</tr>
<tr>
<td>811-97-2</td>
<td>1,1,1,2 Tetrafluoroethane</td>
<td></td>
<td>WEEL 1,000 ppm</td>
<td></td>
</tr>
</tbody>
</table>

8.2 Exposure Controls:

Engineering measures: Use ventilation adequate to keep exposures below recommended exposure limits.

Eye/face Protection: Wear protective safety glasses with side shields or goggles.

Hand Protection: Use chemically resistant gloves (i.e. Nitrile gloves). Nitrile/butadiene rubber, butyl rubber, polyethylene, PVC (vinyl), or neoprene. gloves are also effective. Gloves selection should take into account potential body reactions to certain materials and manufacturer's instructions for use. Break through time of selected gloves must be greater than the intended use period.

Other Protective Equipment: Use clothing that protects against dermal exposure. Appropriate protective clothing varies depending on the
potentially for exposure. To ensure proper skin protection, wear PPE in such a manner that no skin is exposed. **Respiratory Protection:** If atmospheric levels are expected to exceed the exposure levels, use a NIOSH approved air purifying respirator equipped with an organic vapor cartridge and particulate filter. If atmospheric levels exceed 10 times the TLV or PEL level for which an air-purifying respirator is effective, use a powered air purifying respirator (PAPR). The type of respiratory protection selected must comply with the requirements set forth in OSHA’s Respiratory Protection Standard (29 CFR 1910.134). **Hygiene Measures:** An eye wash station or portable eye wash station should be in the area. Wash hands thoroughly after use, before eating, drinking or using the lavatory. Employees/Users should be educated and trained in the safe use and handling of this product.

### SECTION 9- Physical and chemical properties

<table>
<thead>
<tr>
<th>9.1 Information on basic physical and chemical properties</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General Physical Form</strong></td>
</tr>
<tr>
<td><strong>Color</strong></td>
</tr>
<tr>
<td><strong>Odor</strong></td>
</tr>
<tr>
<td><strong>Odor Threshold:</strong></td>
</tr>
<tr>
<td><strong>Physical State:</strong></td>
</tr>
<tr>
<td><strong>pH:</strong></td>
</tr>
<tr>
<td><strong>Melting Point/Freezing Point:</strong></td>
</tr>
<tr>
<td><strong>Initial Boiling Point and Boiling Range:</strong></td>
</tr>
<tr>
<td><strong>Flash Point:</strong></td>
</tr>
<tr>
<td><strong>Evaporation Rate:</strong></td>
</tr>
<tr>
<td><strong>Lower Flammability/Explosive Limit:</strong></td>
</tr>
<tr>
<td><strong>Upper Flammability/Explosive Limit:</strong></td>
</tr>
<tr>
<td><strong>Vapor Pressure:</strong></td>
</tr>
<tr>
<td><strong>Flash Point:</strong></td>
</tr>
<tr>
<td><strong>Vapor Density:</strong></td>
</tr>
<tr>
<td><strong>Relative Density/Specific Gravity:</strong></td>
</tr>
<tr>
<td><strong>Solubility:</strong></td>
</tr>
<tr>
<td><strong>Partition coefficient: n-octanol/water:</strong></td>
</tr>
<tr>
<td><strong>Auto-ignition Temperature:</strong></td>
</tr>
<tr>
<td><strong>Decomposition Temperature:</strong></td>
</tr>
<tr>
<td><strong>Viscosity:</strong></td>
</tr>
<tr>
<td><strong>Oxidizing Properties:</strong></td>
</tr>
<tr>
<td><strong>VOC Content (calculated minus exempt compounds and water):</strong></td>
</tr>
</tbody>
</table>

### SECTION 10- STABILITY AND REACTIVITY

**10.1 Reactivity**
No dangerous reaction known under conditions of normal use.

**10.2 Chemical Stability**
Stable under normal storage conditions. Contents under pressure. Container may explode if heated. Do not pierce or burn, even after use. Avoid temperatures below 40°F (4°C). For longest shelf life, avoid storage above 100°F (38°C).

**10.3 Possibility of Hazardous Reactions**
Elevated temperatures can cause product to decompose, releasing carbon dioxide. Flammable propellant. Contents are under pressure and exposure to high temperature can cause containers to rupture or explode.

**10.4 Conditions To Avoid**
Heat. Incompatible materials. Sources of ignition. Avoid temperatures below 40°F (4°C) or temperatures above 100°F (38°C).

**10.5 Incompatible Materials**
Alcohols, strong bases, amines, metal compounds, ammonia, and strong oxidizers.

**10.6 Hazardous Decomposition Products**
May include, and are not limited to: oxides of carbon, oxides of nitrogen, hydrogen fluoride and traces of hydrogen cyanide.
SECTION 11- TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological effects:
Acute Oral Toxicity
Expected to have low acute oral toxicity

Acute inhalation toxicity
Expected to have low acute inhalation toxicity

Acute dermal toxicity
Expected to have low acute dermal toxicity

Skin irritation
Causes skin irritation

Eye irritation
Causes serious eye irritation

Sensitization
May cause skin and respiratory sensitization

Genotoxicity
Genetic toxicity data for MDI is inconclusive. Some in-vitro studies yielded positive results, while other test data was negative

Mutagenicity
Test data using laboratory animals was predominately negative

Specific organ toxicity- single exposure
May cause respiratory irritation

Specific organ toxicity- repeated exposure
May cause damage to the lungs, central nervous system and skin

Aspiration hazard
No data available

11.2 Delayed, Immediate, and Chronic Effects of Short and Long Term Exposure
MDI and PMDI: IARC Group 3 carcinogen- Not classifiable as to its carcinogenicity to humans. Not listed as a carcinogen by ACGIH, OSHA or NTP. MDI/PMDI did not cause birth defects in laboratory animals; fetal effects occurred only at high doses which were toxic to the mother. Lung tumors have been observed in laboratory animals exposed to respirable aerosol droplets of MDI/PMDI (6mg/m^3) for their lifetime. Tumors occurred concurrently with respiratory irritation and lung injury. Current exposure guidelines are expected to protect against these effects. Chlorinated paraffins (C14-C16) may accumulate in body tissues and fluids rich in lipid content; therefore, this material may cause harm to breastfed children.

SECTION 12- ECOLOGICAL INFORMATION

12.1 Ecotoxicity
The aquatic toxicity of this product has not been experimentally determined. However, it is expected to have low acute aquatic toxicity based on the acute aquatic toxicity of the individual components and their concentration in this mixture.

12.2 Persistence and degradability
Product is not readily biodegradable. In aquatic and terrestrial environments, this material reacts with water, which forms predominately insoluble polyureas.

12.3 Bioaccumulative potential
Bioaccumulation potential is low

12.4 Mobility in soil
Expected to have low mobility based on product’s reactivity with water

12.5 Results of PBT and vPvB assessment
No data available

12.6 Other Adverse Effects
No data available

SECTION 13- DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods
Methods of disposal
Before disposing of containers, relieve container of any remaining foam and pressure. Allow dispensed product to fully cure before disposing. Never discard in a liquid state. This material must be disposed of in accordance with all local, regional, national, international regulations.

Other disposal recommendations:
Do not puncture or incinerate containers. Use appropriate Personal Protective Equipment.
**SECTION 14- TRANSPORTATION**

**Shipping Information**

<table>
<thead>
<tr>
<th>Ground</th>
<th>Containers 1000 cu. cm. (1 liter) or less:</th>
<th>Due to changes in December 2020: See shipping papers for exact 49 CFR descriptions.</th>
<th>Containers Greater Than 1000 cu. cm. (1 liter):</th>
</tr>
</thead>
<tbody>
<tr>
<td>Consumer Commodity ORM-D</td>
<td>Limited Quantity</td>
<td>UN1956 Compressed Gas n.o.s (Fluorinated hydrocarbon, Nitrogen) 2.2 (Non-flammable Gas Label)</td>
<td></td>
</tr>
</tbody>
</table>

| Air | UN1950 Aerosols, Non-Flammable 2.2 (Non-Flammable Gas Label) LIMITED QUANTITY Packing Instructions (Cargo & Passenger) 203 | UN1950 Aerosols, Non-Flammable 2.2 (Non-Flammable Gas Label) LIMITED QUANTITY Packing Instructions (Cargo & Passenger) 203 | UN1956 Compressed Gas n.o.s (Fluorinated hydrocarbon, Nitrogen) 2.2 (Non-flammable Gas Label) |

| Water | UN1950 Aerosols, Non-Flammable 2.2 (Non-Flammable Gas Label) LIMITED QUANTITY | UN1950 Aerosols, Non-Flammable 2.2 (Non-Flammable Gas Label) LIMITED QUANTITY | UN1956 Compressed Gas n.o.s (Fluorinated hydrocarbon, Nitrogen) 2.2 (Non-flammable Gas Label) |

**SECTION 15- REGULATORY**

15.1 Safety, health, and environmental regulations/ legislations specific for the substance or mixture

U.S. Federal Regulations

OSHA Hazard Communication Standard: This material is classified as a hazardous in accordance with OSHA 29 CFR 1910-1200

TSCA Status: All components of this product are listed on the Toxic Substance Control Act (TSCA) Inventory. This product is not subject to TSCA 12(b) Export Notification.

Superfund Amendments and Reauthorization Act (SARA)

SARA Section 311/312 Hazard Categories: Acute Health Hazard, Chronic Health Hazard, Reactive Hazard, Sudden Release of Pressure Hazard

SARA 313 Information: MDI and PMDI are subject to reporting levels established by Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986.

SARA 302/304 Extremely Hazardous Substance: No components of the product exceed the threshold (de minimis) reporting levels established by these sections of the Title III of SARA.

SARA 302/304 Emergency Planning & Notification: No components of the product exceed the threshold (de minimis) report levels established by these sections of the Title III of SARA.

Comprehensive Response Compensation and Liability Act (CERCLA): This product contains the following CERCLA reportable substances: 4,4'- Diphenylmethane diisocyanate (CAS #101-68-8), RQ: 2,268 kg (5,000 lbs).

Clean Air Act (CAA) - 4,4'- Diphenylmethane diisocyanate (CAS #101-68-8) is listed as a Hazardous Air Pollutant (HAP) designated in CAA Section 112 (b). This product does not contain any Class 1 or Class 2 Ozone depletors.

Clean Water Act (CWA) - 4,4'- Diphenylmethane diisocyanate (CAS #101-68-8) is listed as a Hazardous Substance under the CWA. None of the chemicals in these products are listed as Priority Pollutants under the CWA. None of the chemicals listed in these products are listed as Toxic Pollutants under the CWA.

U.S. State Regulations:

California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986: This product contains trace amount of substances known to the State of California to cause cancer or other reproductive harm.

Other U.S. State Inventories:

4, 4'- Diphenylmethane diisocyanate (CAS #101-68-8) is listed on the following State Hazardous Substance Inventories, Right-to-Know lists and/or Air Quality/air Pollutants lists: CA, DE, ID, IL, ME, MA, MN, NJ, PA, WA, WI

Polymeric MDI (CAS #9016-87-9) is listed on the following State Hazardous Substance Inventories, Right-to-Know lists and/or Air Quality/Air Pollutants lists: DE, NJ, MN 1,1,1,2 Tetrafluoroethane (CAS #511-97-2) is listed on the following State Hazardous Substance Inventories, Right-to-Know lists and/or Air Quality/Air Pollutants lists: ME, WI

Australia

This mixture is a schedule 6 SUSMP poison.
Canada

WHMIS Hazard Symbol and Classification:

- A - Compressed Gas
- D2A - Very toxic material causing other toxic effects (Respiratory Sensitizer)
- D2B - Toxic Material causing other toxic effects (Skin Sensitizer) (Skin/Eye Irritant)

Canada Controlled Product Regulations (CPR): This product has been classified in accordance with the hazard criteria of the Controlled Products Regulation, and the SDS contains all the information required by the Controlled Products Regulations.

Canadian Ingredient Disclosure List (IDL): 4,4'-Diphenylmethane diisocyanate (CAS #101-68-8) is listed on the IDL.

Canadian National Pollutant Release Inventory (NPRI): MDI and PMDI are listed on the NPRI.

European Economic Community

Labeling (67/548/EEC or 1999/45/EC)

- Xn- Harmful

Risk Phrases:
- R20- Harmful by inhalation
- R36/37/38- Irritating to eyes, respiratory system and skin
- R40- Limited evidence of carcinogenic effect
- R42/43- May cause sensitization by inhalation and skin contact
- R48/20- Harmful: danger or serious damage to health by prolonged exposure through inhalation.
- R64- May cause harm to breastfed babies
- R53- May cause long-term adverse effects in the aquatic environment

Safety Phrases:
- S1/2- Keep locked up and out of reach of children
- S23- Do not breathe fumes, vapor, or mist
- S36/37- Wear suitable protective clothing and gloves
- S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label or this SDS where possible.

WGK, Germany (Water danger/protection): 1

Global Chemical Inventory Lists:
- United States: Toxic Substance Control Act (TSCA)- Yes
- Canada: Domestic Substances List (DSL)- Yes
- Canada: Non-Domestic Substances List (NDSL)- No
- Europe: Inventory of New and Existing Chemicals- (EINECS)- Yes
- Australia: Australian Inventory of Chemical Substances (AICS)- Yes
- New Zealand: New Zealand Inventory of Chemicals (NZLoC)- Yes
- China: Inventory of Existing Chemical Substances in China (IECSC)- Yes
- Japan: Inventory of Existing and New Chemical Substances (ENCS)- Yes
- Korea: Existing Chemicals List (ECL)- Yes

15.2 Chemical safety assessment: For this product a chemical safety assessment was not carried out

SECTION 16- OTHER

NFPA: Health Hazard 2; Flammability 1; Reactivity 1
HMIS: Health Hazard 2; Flammability 1; Physical Hazard 1
Hazard Rating: 0=minimal, 1= slight, 2=moderate, 3=severe, 4= extreme

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