SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF THE PRODUCT AND SUPPLIER

PRODUCT INFORMATION
Product: FULAFOAM FIRE-RESISTANT
Product Description: Polyurethane Adhesive
Intended Use: Industrial adhesive
Product Identifier: 841758PM

COMPANY INFORMATION
H.B. Fuller Company Australia Pty. Ltd.
16 - 22 Red Gum Drive
Dandenong South, VIC 3175
Telephone: (03) 9797 6222
Emergency telephone No: 1800 033 111
Emergency Tel NZ: 0800 734 607 (or IDD +64 473 4607)

SECTION 2: HAZARDS IDENTIFICATION

GHS Hazard Symbols:
- Flame
- Health Hazard
- Exclamation mark

GHS Signal Word: Danger

GHS Classification:
- Flammable Aerosol Category 1
- Respiratory Sensitisation Category 1
- Skin Sensitisation Category 1
- Skin Corrosion/Irritation Category 2
- Serious Eye Damage/Eye Irritation Category 2A
- Specific Target Organ Systemic Toxicity (STOT) - Repeated Exposure Category 2
- Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 2
- Acute Toxicity - Inhalation Dust / Mist Category 4
- Acute Toxicity - Oral Category 4

GHS Hazard Phrases:
- Extremely flammable aerosol.
- Harmful if swallowed or if inhaled.
- Causes skin irritation.
- May cause an allergic skin reaction.
- Causes serious eye irritation.
- May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- May cause respiratory irritation.
- May cause damage to organs through prolonged or repeated exposure.

GHS Precautions:
- Safety Precautions: Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
- Do not spray on an open flame or other ignition source.
- Pressurized container: Do not pierce or burn, even after use.
- Do not breathe dust/fume/gas/mist/vapours/spray.
- Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.
In case of inadequate ventilation wear respiratory protection.

**First Aid Measures:**

**IF SWALLOWED:** Call a POISON CENTER or doctor/physician if you feel unwell.
**IF ON SKIN:** Wash with plenty of soap and water.
**IF INHALED:** If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
**Call a POISON CENTER or doctor/physician if you feel unwell.**

**First Aid Measures:**

(IF INHales:** If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
**IF IN EYES:** Rinse cautiously with water for several minutes.
**Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER or doctor/physician if you feel unwell.**

**In case of inadequate ventilation wear respiratory protection.**

**Storage:**

Store in a well-ventilated place. Keep container tightly closed.
Store locked up.

Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

**Disposal:**

Dispose of contents/container in accordance with local/regional/national/international regulation for hazardous wastes.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS #</th>
<th>PERCENT</th>
<th>Classification</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polymethylene polyphenyl isocyanate</td>
<td>9016-87-9</td>
<td>30 - 50</td>
<td>Acute Tox. 4; H332</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Eye Irrit. 2; H319</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Resp. Sens. 1; H334</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Skin Irrit. 2; H315</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Skin Sens. 1; H317</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>STOT RE 2; H373</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>STOT SE 3; H335</td>
<td></td>
</tr>
<tr>
<td>Halogenated polyetherpolyol</td>
<td>86675-46-9</td>
<td>10 - 30</td>
<td>Acute Tox. 4; H302</td>
<td></td>
</tr>
<tr>
<td>Phosphate-based flame retardant</td>
<td>1244733-77-4</td>
<td>10 - 30</td>
<td>Acute Tox. 4; H302</td>
<td></td>
</tr>
<tr>
<td>1,1-difluoroethane</td>
<td>75-37-6</td>
<td>5 - 10</td>
<td>Flam. Liq. 1; H224</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Press. Gas (*); H280</td>
<td></td>
</tr>
<tr>
<td>Isobutane (propellant)</td>
<td>75-28-5</td>
<td>1 - 5</td>
<td>Flam. Gas (*); H280</td>
<td></td>
</tr>
</tbody>
</table>

**SECTION 4: FIRST AID MEASURES**

**IF IN EYES:** Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention.

**IF ON SKIN:** Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists.

**IF INHALED:** Remove to fresh air. Restore breathing, if necessary. Call a physician if symptoms persist.

**IF SWALLOWED:** Do not induce vomiting. Seek medical attention immediately. Drink two glasses of water or milk to dilute. Do not give anything by mouth to an unconscious person. Induced vomiting may lead to aspiration of the material into the lungs potentially causing chemical pneumonitis that may be fatal.

**SECTION 5: FIRE FIGHTING MEASURES**

**EXTINGUISHING MEDIA:**

Use water spray, foam, dry chemical or carbon dioxide.
SAFETY DATA SHEET

UNUSUAL FIRE AND EXPLOSION HAZARDS: Material will burn in a fire.
SPECIAL FIRE FIGHTING INSTRUCTIONS: Persons exposed to products of combustion should wear self-contained breathing apparatus and full protective equipment.
HAZARDOUS COMBUSTION PRODUCTS: Carbon dioxide, Carbon monoxide Nitrogen containing gases Hydrogen cyanide

SECTION 6: ACCIDENTAL RELEASE MEASURES

SPECIAL PROTECTION: Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this MSDS. Additional precautions may be necessary based on special circumstances created by the spill including: the material spilled, the quantity of the spill, the area in which the spill occurred.

METHODS FOR CLEAN-UP: Dike if necessary, contain spill with inert absorbent and transfer to containers for disposal. Keep spilled product out of sewers, watersheds, or water systems. Cover with absorbent material. Place in open topped container. Remove to well-ventilated area and treat with aqueous ammonia.

SECTION 7: HANDLING AND STORAGE

Handling: Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Moisture contamination in closed containers may produce carbon dioxide gas pressure.

Storage: Store in a cool, dry place.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Note</th>
<th>AUSTRALIAN EXPOSURE LIMITS</th>
<th>ACGIH EXPOSURE LIMITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isobutane (propellant)</td>
<td>None</td>
<td>None</td>
<td>No data available. 1000 ppm STEL</td>
</tr>
</tbody>
</table>

Biological Limit Values (ACGIH)

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH Biological Exposure Index (BEI)</th>
</tr>
</thead>
<tbody>
<tr>
<td>No data available.</td>
<td></td>
</tr>
</tbody>
</table>

ENGINEERING CONTROL METHODS:

VENTILATION: Use local exhaust ventilation or other engineering controls to minimise exposures.

EYE PROTECTION: Wear safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material. Have an eye wash station available.

SKIN PROTECTION: Avoid skin contact by wearing chemically resistant gloves and long sleeved shirt. An apron may be appropriate if splashing can occur.

GLOVES: Nitrile
SAFETY DATA SHEET

RESPIRATORY PROTECTION: Respiratory protection may be required to avoid overexposure when handling this product. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms. Use supplied-air respiratory equipment as required.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

| PHYSICAL STATE: | Liquid |
| COLOR: | Red |
| ODOR: | Characteristic |
| ODOR THRESHOLD: | Not established |
| pH: | Not established |
| FREEZING/MELTING POINT (deg. C): | Not established |
| BOILING POINT (deg. C): | Not established |
| FLASH POINT: | Not applicable |
| EVAPORATION RATE: | Not established |
| FLAMMABILITY: | Not a flammable solid or gas |
| UPPER EXPLOSIVE LIMIT (% in air): | Not established |
| LOWER EXPLOSIVE LIMIT (% in air): | Not established |
| VAPOR PRESSURE (mm Hg): | Not established |
| VAPOR DENSITY: | Not established |
| WEIGHT PER GALLON (lbs.): | 8.35 |
| SPECIFIC GRAVITY: | 1.000 |
| SOLUBILITY: | Not established |
| OCTANOL/WATER COEFFICIENT: | Not established |
| AUTOIGNITION TEMPERATURE: | Not established |
| DECOMPOSITION TEMPERATURE: | Not established |
| VISCOSITY: | No data available. |
| SOLIDS (% by weight): | 20.0 |

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable under normal conditions.
CHEMICAL INCOMPATIBILITY: Water Alcohols Amines Strong acids Strong alkalies
HAZARDOUS POLYMERIZATION: Will not occur.
HAZARDOUS DECOMPOSITION PRODUCTS: Hydrogen cyanide Nitrogen containing gases Carbon monoxide, carbon dioxide

SECTION 11: TOXICOLOGICAL INFORMATION

Component Toxicity / Toxicology Data:

<table>
<thead>
<tr>
<th>COMPONENT NAME</th>
<th>LD50/LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polymethylene polyphenyl isocyanate</td>
<td>Oral LD50 Rat 49 g/kg</td>
</tr>
</tbody>
</table>

This product is a mixture. Unless noted, the information below is based on components.
Skin corrosion / irritation: Can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.
Serious eye damage / irritation: Can cause moderate irritation, tearing and reddening.
Respiratory / skin sensitization: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
Germ cell mutagenicity: No data available.
Carcinogenicity: No data available.
Reproductive toxicity: No data available.
Specific target organ toxicity—single exposure: No data available.
    Respiratory irritation / Narcotic effects: No data available.
Specific target organ toxicity—single exposure: May cause damage to organs through prolonged or repeated exposure.
Target organs potentially affected by exposure: Lungs Skin Central nervous system
Aspiration hazard: Not an aspiration hazard.

Medical Conditions Aggravated by Exposure: Skin disease including eczema and sensitisation, Lung disease, Persons with existing asthmatic conditions may experience difficulty breathing. Persons who have been sensitised to isocyanates may experience symptoms at very low exposure levels.

SECTION 12: ECOLOGICAL INFORMATION

OVERVIEW: No ecological information available for this product.
MOBILITY: No data available.
PERSISTENCE: No data available.
BIOACCUMULATION: No data available.

This product has not been tested for ecological effects. Relevant information for components is listed below:

<table>
<thead>
<tr>
<th>Component</th>
<th>Ecotoxicity values:</th>
</tr>
</thead>
<tbody>
<tr>
<td>No data available.</td>
<td>Acute Toxicity (Fish):</td>
</tr>
<tr>
<td></td>
<td>Acute Toxicity (Daphnia):</td>
</tr>
<tr>
<td></td>
<td>Acute Toxicity (Algae):</td>
</tr>
</tbody>
</table>

SECTION 13: DISPOSAL CONSIDERATIONS

It is our opinion that this product does not meet the definition of hazardous waste under U.S. EPA Hazardous Waste Regulations 40 CFR 261. Dispose of waste material according to state, local or provincial regulations.

SECTION 14: TRANSPORT INFORMATION

Consult Bill of Lading for transportation information.

ADG: UN1950, AEROSOLS, 2.1
IATA: UN1950, AEROSOLS, FLAMMABLE, 2.1
IMDG: UN1950, AEROSOLS, 2.1
HazChem Code: 2YE

SECTION 15: REGULATORY INFORMATION

INVENTORY STATUS
AUSTRALIA AICS: All ingredients in this mixture are listed in the Australian Inventory of Chemical Substances.
U.S. EPA TSCA: The product contains a substance that is not listed on the TSCA inventory.
CANADIAN CEPA DSL: This product contains one or more components which have not been determined to be on the DSL. If you are the importer of this product into Canada, contact H.B. Fuller for chemical tracking and notification information.
EUROPEAN REACH: As a result of the introduction of REACH into Europe, this product cannot be imported into Europe unless the REACH requirements are met.

CHINA IECSC INVENTORY: This product is in compliance with the Inventory of Existing Chemical Substances in China (IECSC) requirements.

If you need more information about the inventory status of this product call 1+651-236-5858.

**Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP):** Exempt

**SECTION 16: OTHER INFORMATION**

SDS Date of Issue: 27-12-2016
Replaces: None
Changes made to previous issue: Conversion to GHS format

**ACRONYMS and DEFINITIONS:**
- **ACGIH** American Conference of Governmental Industrial Hygienists
- **ADG Code** Australian Code for the Transport of Dangerous Goods by Road and Rail
- **AICS** Australian Inventory of Chemical Substances
- **BEI** Biological Exposure Index
- **CAS Number** Chemical Abstracts Service Registry Number
- **CNS** Central nervous system
- **DG** Dangerous Goods
- **Hazchem Code** An emergency action code of numbers and letters, which gives information to emergency services.
- **IARC** International Agency for Research on Cancer
- **IATA Code** International Air Transport Association Code
- **IMDG Code** International Maritime Dangerous Goods Code
- **N.O.S.** Not otherwise specified
- **NOHSC** National Health and Safety Commission
- **PPE** Personal protection equipment
- **SUSMP** Standard for the Uniform Scheduling of Medicines and Poisons
- **UN Number** United Nations Number

Prepared by: The Global Regulatory Department Phone: 1-651-236-5842

The information and recommendations set forth herein are believed to be accurate. Because some of the information is derived from information provided to H.B. Fuller Company Australia Pty. Ltd. from its suppliers, and because H.B. Fuller Company Australia Pty. Ltd. has no control over the conditions of handling and use, H.B. Fuller Company Australia Pty. Ltd. makes no warranty, expressed or implied, regarding the accuracy of the data or the results to be obtained from the use thereof. The information is supplied solely for your information and consideration, and H.B. Fuller Company Australia Pty. Ltd. assumes no responsibility for use or reliance thereon. It is the responsibility of the user of H.B. Fuller Company Australia Pty. Ltd. products to comply with all applicable federal, state and local laws and regulations.