HI-TEC INDUSTRIES

Date: June 07, 2019

SDS DATA SHEET
PROJECT 1 POLYURETHANE EXPANDING FOAM SEALANT

1. Identification

1.1 Product Identifier  Project 1 Expanding/Insulating Foam Sealant Part No. 7000-12
1.2 Relevant Use  One Component Polyurethane Foam Sealant HC
SDS Number  P1F7000
1.3 Supplier/Manufacturer  Silicone Depot
                        6100 S. Fairfax Road
                        Bloomington, IN 47401
Contact Telephone No.  (800) 457-1313 (Monday-Friday 8:00am-5:00pm EST)

2. HAZARDS IDENTIFICATION

Emergency Overview:

2.1 Hazard Classification  Flammable Aerosol- Category 1
                          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 1
                          Specific Target Organ Toxicity SE 3
                          Specific Target Organ Toxicity RE 2

2.2 Label elements

Hazard Pictograms

Signal Word  DANGER
Hazard Statements  Extremely flammable aerosol
Contains gas under pressure; may explode if heated
Harmful if inhaled
Causes Skin Irritation
May cause an allergic skin reaction
May cause allergy or asthma symptoms or breathing difficulties if inhaled
Causes Serious Eye Irritation
May cause respiratory irritation
May cause damage to organs through prolonged or repeated exposure

Prevention  Keep Out of Reach of Children
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/vapors/spray
Do not eat, drink or smoke when using this product
Use only outdoors or in a well-ventilated area
In case of inadequate ventilation wear respiratory protection
Wear protective gloves/eye protection/face protection
Wash hands thoroughly after handling
Response: Get medical advice/attention if you feel unwell
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: get medical attention.
IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention.
IF INHALED: Remove Person to fresh air and keep comfortable for breathing. Call a poison center/physician.

Storage
Do not expose to temperatures exceeding 50 C/122 F. Protect from sunlight. Store in a well-ventilated place. Store locked up.

Disposal
Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

2.3 Additional Information:
Hazards not otherwise classified: Not applicable

WHMIS Classifications:
Class A- Compressed Gas
Class B5- Flammable Aerosol
Class D2A- Respiratory Sensitizer
Class D2B- Skin Sensitization
Class D2B- Skin/Eye Irritant

WHMIS Signal Word: DANGER

WHMIS Hazard Symbols:

3. Composition/ Information on Ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS No.</th>
<th>Wt. %</th>
</tr>
</thead>
<tbody>
<tr>
<td>4,4’ Diphenylmethane diisocyanate</td>
<td>101-68-8</td>
<td>5-10</td>
</tr>
<tr>
<td>Polymethylene polyphenyl isocyanate</td>
<td>9016-87-9</td>
<td>5-10</td>
</tr>
<tr>
<td>Isobutane</td>
<td>75-28-5</td>
<td>3-7</td>
</tr>
<tr>
<td>Dimethyl ether</td>
<td>115-10-6</td>
<td>3-7</td>
</tr>
<tr>
<td>Propane</td>
<td>74-98-6</td>
<td>1-5</td>
</tr>
</tbody>
</table>

4. First Aid Measures

4.1 Description of first aid measures
Eye: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. If irritation persists, get medical attention.
Skin: In case of contact, immediately flush skin with plenty of soap and water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation persists.
Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Obtain medical attention.
Ingestion: If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention.

4.2 Most important symptoms and effects, both acute and delayed:
Eye: May cause eye irritation.
Skin: May cause skin irritation. Symptoms may include redness, edema, drying, defatting and
Inhalation: cracking of the skin. May cause an allergic reaction. May be harmful if inhaled. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Ingestion: May be harmful if swallowed. May cause gastrointestinal irritation: stomach distress, nausea, or vomiting.

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).

5. Fire-fighting measures

5.1 Flammability
Flammable by OSHA/WHMIS criteria

5.2 Extinguishing media
Suitable extinguishing media: Dry chemical, carbon dioxide, Halon 1211, chemical foams
Unsuitable extinguishing media: Water is not recommended unless used in large quantities and other extinguishing agents are not available. Water may spread the fire.

5.3 Special hazards arising from the substance or mixture
Products of combustion: May include and are not limited to: oxides of carbon, oxides of nitrogen, hydrogen fluoride, and traces of hydrogen cyanide.

5.4 Special protective equipment and precautions for fire fighters
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.

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 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. Do not flush to sewer or allow to enter waterways. 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

7. Handling and storage

7.1 Precautions for safe handling
Handling: Keep away from sources of ignition- No smoking. Do not spray on an open flame or other ignition source. 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 hygiene advice: Launder contaminated clothing before reuse. Wash hands before eating, drinking or smoking.

7.2 Conditions for safe storage including any incompatibilities
Storage: Store in a dry place. Ideal storage temperature is 60°F to 80°F (15.5°C to 26.6°C). Do not expose aerosol cans to open flame or 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.

8. Exposure controls/personal protection

8.1 Control Parameters

**Exposure Guidelines**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>OSHA-PEL</th>
<th>ACGIH-TLV</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>4,4’ Diphenylmethane diisocyanate</td>
<td>.2 mg/m³ Ceiling</td>
<td>0.005 ppm Ceiling</td>
<td></td>
</tr>
<tr>
<td>Polymethylene polyphenyl isocyanate</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Isobutane</td>
<td></td>
<td>1000 ppm</td>
<td></td>
</tr>
<tr>
<td>Dimethyl ether</td>
<td></td>
<td></td>
<td>WEEL- 1000 ppm TWA</td>
</tr>
<tr>
<td>Propane</td>
<td></td>
<td>1000 ppm</td>
<td>1000 ppm</td>
</tr>
</tbody>
</table>

8.2 Exposure Controls:

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

8.3 Individual Protective Measures

Personal Protective Equipment:

Respiratory Protection/Ventilation: 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).

Eye/Face Protection Wear safety glasses with side shields or goggles.

Skin Protection Wear chemical resistant gloves (nitrile). Wear suitable protective clothing.

General health & safety Do not smoke, drink, or eat while handling this product. Wash after handling. Ensure that eyewash bottles or stations are in the area.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>General Physical Form</th>
<th>Viscous liquid which forms off-white to yellowish foam upon release.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Crème. Some products contain a dye or colorant i.e. Fireblock is orange.</td>
</tr>
<tr>
<td>Odor</td>
<td>Slight hydrocarbon odor during curing stage</td>
</tr>
<tr>
<td>Odor Threshold:</td>
<td>Not available</td>
</tr>
<tr>
<td>Physical State:</td>
<td>Gas/Pressurized Liquid/Semi-Solid</td>
</tr>
<tr>
<td>pH:</td>
<td>Not available</td>
</tr>
<tr>
<td>Melting Point/Freezing Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Initial Boiling Point and Boiling Range</td>
<td>Not available</td>
</tr>
<tr>
<td>Flash Point:</td>
<td>-156 °F</td>
</tr>
<tr>
<td>Evaporation Rate:</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammability:</td>
<td>Flammable</td>
</tr>
<tr>
<td>Lower Flammability/Explosive Limit:</td>
<td>Not available</td>
</tr>
</tbody>
</table>
**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 (5°C). For longest shelf life, avoid storage above 95°F (35°C).

10.3 Possibility of Hazardous Reactions:
No dangerous reaction known under conditions of normal use.

10.4 Conditions To Avoid:
Heat. Incompatible materials. Sources of ignition. Avoid temperatures below 40°F (5°C) or temperatures above 95°F (35°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.

**11. TOXICOLOGICAL INFORMATION**

11.1 Information on Toxicological effects:
Likely routes of exposure: Skin Contact, skin absorption, eye contact, inhalation and ingestion.

Symptoms related to physical/chemical/toxicological characteristics:

**Eye:**
May cause serious eye irritation. Symptoms may include discomfort or pain, excessive blinking and tear production, with possible redness and swelling.

**Skin:**
May cause skin irritation. Symptoms may include redness, edema, drying, defatting, and cracking of the skin. May cause an allergic skin reaction.

**Ingestion:**
May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

**Inhalation:**
May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory tract inhalation. Chronic overexposure to diisocyanates can cause permanent lung damage.

**Acute Toxicity:**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Inhalation LC 50</th>
<th>Oral LC 50</th>
<th>Dermal LC 50</th>
</tr>
</thead>
<tbody>
<tr>
<td>4,4' Diphenylmethane diisocyanate</td>
<td>490 mg/m³, 4h rat</td>
<td>&gt;10,000 mg/kg, rat</td>
<td>&gt;9400 mg/kg, rabbit</td>
</tr>
<tr>
<td>Ingredient</td>
<td>Chemical Listed as Carcinogen or Potential Carcinogen (NTP, IARC, OSHA, ACGIH, CP65)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>------------------------------------------------</td>
<td>---------------------------------------------------------------------------------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Polymethylene polyphenyl isocyanate</td>
<td>310 mg/m³, 4h rat &gt;10,000 mg/kg, rat &gt;9400 mg/kg, rabbit</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Isobutane</td>
<td>658 mg/l, 4h rat</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dimethyl ether</td>
<td>308.5 mg/l, 4h rat</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Propane</td>
<td>658 mg/l 4h, rat</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 11.2 Delayed, Immediate, and Chronic Effects of Short and Long Term Exposure

<table>
<thead>
<tr>
<th>Effect</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Corrosion/Irritation</td>
<td>Irritating to skin</td>
</tr>
<tr>
<td>Serious Eye Damage/Irritation</td>
<td>Cause serious eye irritation</td>
</tr>
<tr>
<td>Respiratory Sensitization</td>
<td>May cause sensitization by inhalation</td>
</tr>
<tr>
<td>Skin Sensitization</td>
<td>May cause sensitization by skin contact</td>
</tr>
<tr>
<td>STOT-single exposure</td>
<td>May cause respiratory irritation</td>
</tr>
<tr>
<td>Chronic Health Effects</td>
<td>Carcinogenicity: Based on the available data, the classification criteria is not met</td>
</tr>
<tr>
<td></td>
<td>Germ Cell Mutagenicity: Based on the available data, the classification criteria is not met</td>
</tr>
<tr>
<td>Reproductive Toxicity</td>
<td>Developmental: Based on the available data, the classification criteria is not met</td>
</tr>
<tr>
<td></td>
<td>Teratogenicity: Based on the available data, the classification criteria is not met</td>
</tr>
<tr>
<td></td>
<td>Embryo Toxicity: Based on the available data, the classification criteria is not met</td>
</tr>
<tr>
<td></td>
<td>Fertility: Based on the available data, the classification criteria is not met</td>
</tr>
<tr>
<td>STOT-repeated exposure</td>
<td>May cause damage to organs through prolonged or repeated exposure</td>
</tr>
<tr>
<td>Aspiration Hazard</td>
<td>Based on available data, the classification criteria is not met</td>
</tr>
<tr>
<td>Toxicologically Synergistic:</td>
<td>Not available</td>
</tr>
<tr>
<td>Other Information:</td>
<td>Not available</td>
</tr>
</tbody>
</table>

### SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:

- **CP65** California Proposition 65
- **OSHA (O)** Occupational Safety and Health Administration.
- **ACGIH (G)** American Conference of Governmental Industrial Hygienists.
  - A2 - Suspected human carcinogen.
  - A3 - Animal carcinogen.
  - A4 - Not classifiable as a human carcinogen.
  - A5 - Not suspected as a human carcinogen.
- **IARC (I)** International Agency for Research on Cancer.
  - 1 - The agent (mixture) is carcinogenic to humans.
  - 2A - The agent (mixture) is probably carcinogenic to humans; there is limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals.
  - 2B - The agent (mixture) is possibly carcinogenic to humans; there is limited evidence of carcinogenicity in humans in the absence of sufficient evidence of carcinogenicity in experimental animals.
  - 3 - The agent (mixture, exposure circumstance) is not classifiable as to its carcinogenicity to humans.
  - 4 - The agent (mixture, exposure circumstance) is probably not carcinogenic to humans.
- **NTP (N)** National Toxicology Program.
  - 1 - Known to be carcinogens.
  - 2 - Reasonably anticipated to be carcinogens.
12. Ecological Information

12.1 Ecotoxicity

Acute/Chronic Toxicity: May cause long-term adverse effects in the aquatic environment.

12.2 Persistence and Degradability: Not available

12.3 Bioaccumulative Potential: Bioaccumulation: Not Available

12.4 Mobility in soil: Not Available

12.5 Other Adverse Effects: Not Available

13. Disposal considerations

13.1 Waste Treatment Methods

Disposal Method: Before disposing of containers, relieve container of any remaining foam and pressure. Allow 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.

14. Transportation

Shipping Information

Containers 1000 cu. cm. (1 liter) or less:

<table>
<thead>
<tr>
<th>Ground</th>
<th>Consumer Commodity ORM-D</th>
<th>Limited Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air</td>
<td>UN1950 Aerosols, Flammable 2.1 (Flammable Gas Label) LIMITED QUANTITY Packing Instructions (Cargo &amp; Passenger) 203</td>
<td>UN1950 Aerosols, Flammable 2.1 (Flammable Gas Label) LIMITED QUANTITY Packing Instructions (Cargo &amp; Passenger) 203</td>
</tr>
<tr>
<td>Water</td>
<td>UN1950 Aerosols, Flammable 2.1 (Flammable Gas Label) LIMITED QUANTITY</td>
<td>UN1950 Aerosols, Flammable 2.1 (Flammable Gas Label) LIMITED QUANTITY</td>
</tr>
</tbody>
</table>

15. REGULATORY

15.1 Safety, Health, and Environmental Regulations/Legislations Specific for the Chemical


Canada: This product has been classified in accordance with the hazard criteria of Controlled Products Regulations.

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Section 302 (EHS) TPQ (lbs.)</th>
<th>Section 301 EHS RQ (lbs.)</th>
<th>CERCLA RQ (lbs.)</th>
<th>Section 313</th>
</tr>
</thead>
<tbody>
<tr>
<td>4,4’ Diphenylmethane diisocyanate</td>
<td>Not Listed</td>
<td>Not Listed</td>
<td>5000</td>
<td>313</td>
</tr>
<tr>
<td>Polymethylene polyphenyl isocyanate</td>
<td>Not Listed</td>
<td>Not Listed</td>
<td>Not Listed</td>
<td>313</td>
</tr>
<tr>
<td>Ingredient</td>
<td>US TSCA</td>
<td>Canada DSL/NDSL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>------------------------------------------------</td>
<td>----------</td>
<td>-----------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4,4’ Diphenylmethane diisocyanate</td>
<td>Yes</td>
<td>DSL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Polymethylene polyphenyl isocyanate</td>
<td>Yes</td>
<td>DSL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Isobutane</td>
<td>Yes</td>
<td>DSL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dimethyl ether</td>
<td>Yes</td>
<td>DSL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Propane</td>
<td>Yes</td>
<td>DSL</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**California Proposition 65:**
Based on information currently available, this product is not known to contain detectable amounts of any chemicals currently listed under California Proposition 65.

## 16. OTHER

**NFPA:** Health Hazard 2; Flammability 3; Reactivity 1  
**HMIS:** Health Hazard 2; Flammability 3; Physical Hazard 1

Hazard Rating: 0=minimal, 1= slight, 2=moderate, 3=severe, 4= extreme

The information and recommendations set forth herein are presented in good faith and believed to be correct as of the date hereof. The manufacturer makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving it will make their own determination as to its suitability for their purposes prior to use. In no event will the manufacturer be responsible for damages of any nature whatsoever resulting from the use of or reliance upon information. No representations or warranties, either expressed or implied, of merchantability or fitness for a particular use are made hereunder with respect to this information or the product to which information refers.

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