SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product: Q-Tel 2027 Isocyanate
Chemical Family: Aromatic isocyanate
Product Use: Duct sealing foam
Responsible Party: Chemque, Inc.
6107 Guion Road
Indianapolis, Indiana
46254
Telephone Number: (416) 679-5676
In Emergency Only: CANUTEC Collect: (813) 996-6666 (24-hour hotline)
Information: (613) 992-4624

SECTION 2: HAZARDS IDENTIFICATION

Skin – Irritant. May cause skin sensitization.
Inhalation – Irritant. May cause respiratory sensitization.
Ingestion – May cause adverse health effects.

SECTION 3: HAZARDOUS INGREDIENT INFORMATION

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>% (W/W)</th>
<th>CAS Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polymeric diphenylmethane</td>
<td>N/A</td>
<td>9016-87-9</td>
</tr>
</tbody>
</table>

SECTION 4: FIRST AID MEASURES

Eyes: Flush eyes with water for 15 minutes. Call a physician if irritation persists.
Skin: Wash with soap and water. If irritation develops, consult a physician.
Inhalation: Remove patient from exposure, keep warm and at rest. Assist in breathing if necessary. Obtain immediate medical attention.
Ingestion: Drink 1-2 cups of milk or water. Do not induce vomiting. Never administer anything by mouth to an unconscious person. Seek medical attention.
**SECTION 5: FIRE FIGHTING MEASURES**

- **Flammable Properties:** No unusual fire or explosion hazards.
- **Extinguishing Media:** CO₂, dry chemical, foam, water fog
- **Hazardous Combustion Products:** CO₂
- **Protection of Fire Fighters:** Fire fighters should wear self-contained breathing apparatus and full protective clothing.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

- **Personal Precautions:** Use personal protective equipment as recommended in Section 8.
- **Environmental Precautions:** Obey relevant federal, state, provincial, and municipal laws.
- **Methods for Containment:** Cover with an absorbent material. Remove for disposal.
- **Methods for Clean-Up:** Clean spill area with a solution of 90% water, 8% ammonia and 2% detergent.

**SECTION 7: HANDLING AND STORAGE**

- **General Warning to Prevent Exposure:** Do not breathe fumes or vapours.
- **General Storage Information:** Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Store in tightly-sealed containers in a cool, dry area. Keep away from moisture.

**SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Exposure Limit</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polymeric diphenylmethane disocyanate</td>
<td>ACGIH/TLV</td>
<td>0.05 mg/m³</td>
</tr>
</tbody>
</table>

**Engineering Controls:** Use local exhaust ventilation to keep vapour concentrations low.

**Personal Protective Equipment:**
- **Eyes:** Safety glasses or goggles.
- **Skin:** Rubber gloves or plastic gloves.
### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Thixotropic, brown paste</td>
</tr>
<tr>
<td>Odour</td>
<td>N/E</td>
</tr>
<tr>
<td>Melting Point</td>
<td>N/E</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>&gt; 300 °C decomposes</td>
</tr>
<tr>
<td>Flash Point (Method)</td>
<td>203 °C (397 °F) closed cup</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>N/E</td>
</tr>
<tr>
<td>Upper/Lower Flammable Limits</td>
<td>N/E</td>
</tr>
<tr>
<td>Vapour Pressure @ 77°F</td>
<td>ca. 0.000004 mmHg</td>
</tr>
<tr>
<td>Vapour Density</td>
<td>8.5</td>
</tr>
<tr>
<td>Specific Gravity @ 77°F</td>
<td>N/E</td>
</tr>
<tr>
<td>Solubility</td>
<td>Insoluble</td>
</tr>
</tbody>
</table>

### SECTION 10: STABILITY AND REACTIVITY

- **Chemical Stability**: Stable.
- **Conditions to Avoid**: Moisture contamination. Water, strong bases, alcohols, excessive heat.
- **Incompatible Materials**: N/E
- **Hazardous Decomposition Products**: N/E
- **Possibility of Hazardous Reactions**: Will not occur.

### SECTION 11: TOXICOLOGICAL INFORMATION

- **Acute Dose Toxicity**
  - Oral, L.D$_{50}$: > 5000 mg/kg (rat)
  - Dermal L.D$_{50}$: > 5000 mg/kg (rabbit)
  - Inhalation, L.C$_{50}$: 490 mg/m$^3$ 4 h (rat)

- **Repeated Dose Toxicity**: N/E
- **Sensitization**: May cause sensitization by skin contact or by inhalation. May be an irritant to eyes, skin and/or lungs.
- **Carcinogenicity**: Ingredients not classified as carcinogenic by IARC
- **Neurological Effects**: N/E
- **Genetic Effects**: N/E
- **Reproductive Effects**: N/E
- **Developmental Effects**: N/E
- **Target Organ Effects**: Lungs – chronic inhalation can cause respiratory distress and respiratory impairments.
SECTION 12: ECOLOGICAL INFORMATION

Biodegradability: Not readily biodegradable.

SECTION 13: DISPOSAL CONSIDERATIONS

Recover or recycle if possible.
Dispose of this material in accordance with local, provincial, and federal laws and regulations.
This material is not a hazardous waste under RCRA 40 CFR 261.
Empty containers should be decontaminated and either passed to an approved drum recycler or destroyed.

SECTION 14: TRANSPORT INFORMATION

TDG: Not regulated
IMO/IMDG: Not regulated
ICAO/IATA: Not regulated

SECTION 15: REGULATORY INFORMATION

Canadian Regulations: As per WHMIS, this material is classified:
D2A: Material Causing Other Toxic Effects – Very Toxic
D2B: Material Causing Other Toxic Effects – Toxic
All of the components of this material appear on the "Domestic Substances List" (DSL).
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required in the Controlled Products Regulations.

US Regulations:
This material is classified as hazardous under OSHA regulation 29 CFR 1910.1200.
SARA Title III: This product contains the following chemical subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act (EPCRA) of 1986 and 40 CFR 372:
Polymeric diphenylmethane diisocyanate CAS # 9016-87-9
All of the components of this material appear on the "Toxic Substances Control Act" (TSCA) inventory.

SECTION 16: OTHER INFORMATION

Abbreviations:
N/E: Not established
TLV: Threshold Limit Value
TWA: Time-Weighted Average