1 Identification

- Product identifier
- Trade name: Q-Tel 2062 Part A
- Relevant identified uses of the substance or mixture: Encapsulant
- Application of the substance / the mixture: Encapsulant
- Details of the supplier of the safety data sheet
  - Manufacturer/Supplier: Royal Adhesives & Sealants Canada Ltd
    266 Humberline Drive - Toronto, Ontario, Canada M9W 5X1
    Tel. +1 416-679-5676 Fax: +1 416-679-0511
  - Information department: Environment protection department.
  - Emergency telephone number:
    Emergency Telephone Number: CANUTEC Collect: (613) 996-6666 (24-hour hotline)

2 Hazard(s) identification

- Classification of the substance or mixture
  - GHS07
  - Acute Tox. 4 H302 Harmful if swallowed.

- Label elements
  - GHS label elements: The product is classified and labeled according to the Globally Harmonized System (GHS).
  - Hazard pictograms
    - GHS07

- Signal word: Warning
- Hazard statements
  - Harmful if swallowed.
- Precautionary statements
  - Wash thoroughly after handling.
  - Do not eat, drink or smoke when using this product.
  - IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
  - Rinse mouth.
  - Dispose of contents/container in accordance with local/regional/national/international regulations.

- Classification system:
  - NFPA ratings (scale 0 - 4)
    - Health = 1
    - Fire = 1
    - Reactivity = 0

(Contd. on page 2)
Trade name: Q-Tel 2062 Part A

* HMIS-ratings (scale 0 - 4)

<table>
<thead>
<tr>
<th></th>
<th>HEALTH</th>
<th>FIRE</th>
<th>PHYSICAL HAZARD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fire</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physical Hazard</td>
<td>0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Health = 1  Fire = 1  Physical Hazard = 0

* Other hazards

* Results of PBT and vPvB assessment

* PBT: Not applicable.

* vPvB: Not applicable.

** 3 Composition/information on ingredients

* Chemical characterization: Mixtures

* Description: Mixture

* Hazardous components:

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyether Polyol</td>
<td>25-50%</td>
</tr>
<tr>
<td>25214-63-5 polyether polyol</td>
<td>2.5-10%</td>
</tr>
</tbody>
</table>

** 4 First-aid measures

* Description of first aid measures

* After inhalation:
  Supply fresh air or oxygen; call for doctor.
  In case of unconsciousness place patient stably in side position for transportation.

* After skin contact:
  Immediately wash with water and soap and rinse thoroughly.

* After eye contact:
  Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

* After swallowing:
  Do not induce vomiting; immediately call for medical help.
  Seek medical treatment.

* Information for doctor:

  * Most important symptoms and effects, both acute and delayed: No further relevant information available.
  * Indication of any immediate medical attention and special treatment needed: No further relevant information available.

** 5 Fire-fighting measures

* Extinguishing media

* Suitable extinguishing agents:
  CO2, extinguishing powder or water spray. Fight larger fires with water spray.
  Use fire fighting measures that suit the environment.

* Special hazards arising from the substance or mixture: No further relevant information available.

* Advice for firefighters

* Protective equipment: Mouth respiratory protective device.

** 6 Accidental release measures

* Personal precautions, protective equipment and emergency procedures
  Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation

· **Environmental precautions:** Do not allow to enter sewers/surface or ground water.

· **Methods and material for containment and cleaning up:**
  Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  Dispose of contaminated material as waste in accordance with federal state and local regulations.
  Ensure adequate ventilation.

· **Reference to other sections**
  See Section 7 for information on safe handling.
  See Section 8 for information on personal protection equipment.
  See Section 13 for disposal information.

---

**7 Handling and storage**

· **Handling:**
  - **Precautions for safe handling**
    Ensure good ventilation/exhaustion at the workplace.
    Prevent formation of aerosols.
  - **Information about protection against explosions and fires:**
    Keep ignition sources away - Do not smoke.
    Keep container closed when not in use.

· **Conditions for safe storage, including any incompatibilities**
  - **Storage:**
    - **Requirements to be met by storerooms and receptacles:** Store in a cool location away from direct heat.
    - **Information about storage in one common storage facility:** Store away from oxidizing agents.
    - **Further information about storage conditions:**
      - Keep receptacle tightly sealed.
      - Protect from humidity and water.

· **Specific end use(s)**
  No further relevant information available.

---

**8 Exposure controls/personal protection**

· **Additional information about design of technical systems:** No further data; see item 7.

· **Control parameters**
  - **Components with limit values that require monitoring at the workplace:**
    The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**
  - **Personal protective equipment (see listings below)**
  - **General protective and hygienic measures:**
    The usual precautionary measures for handling chemicals should be followed.

· **Breathing equipment:**
  Use approved respiratory protection equipment when airborne exposure is excessive. Consult the respirator manufacturer to determine the appropriate type of equipment for a given application. Observe respirator use limitations specified by the manufacturer.

· **Protection of hands:**
  - Protective gloves

(Contd. on page 4)
Trade name: Q-Tel 2062 Part A

The glove material has to be impermeable and resistant to the product/the substance/the preparation.

- **Material of gloves**
  Nitrile rubber, NBR
  The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

- **Penetration time of glove material**
  The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**
  Safety glasses with side shields.

  ![Tightly sealed goggles](image)

- **Body protection:** Protective work clothing

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### 9 Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Information on basic physical and chemical properties</strong></td>
<td></td>
</tr>
<tr>
<td><strong>General Information</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Appearance:</strong></td>
<td></td>
</tr>
<tr>
<td>Form</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Light yellow</td>
</tr>
<tr>
<td>Odor</td>
<td>Characteristic</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not determined</td>
</tr>
<tr>
<td>pH-value</td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Change in condition</strong></td>
<td></td>
</tr>
<tr>
<td>Melting point</td>
<td>Undetermined</td>
</tr>
<tr>
<td>Boiling point</td>
<td>&gt; 93 °C (&gt; 199 °F)</td>
</tr>
<tr>
<td>Flash point</td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gaseous):</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Ignition temperature</td>
<td>340 °C (644 °F)</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not determined</td>
</tr>
<tr>
<td>Auto igniting</td>
<td>Product is not selfigniting.</td>
</tr>
<tr>
<td>Danger of explosion</td>
<td>Product does not present an explosion hazard.</td>
</tr>
<tr>
<td>Flammable limits:</td>
<td></td>
</tr>
<tr>
<td>Lower</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Upper</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Not determined</td>
</tr>
<tr>
<td>Specific gravity at 20 °C (68 °F):</td>
<td>0.96 g/cm³ (8.011 lbs/gal)</td>
</tr>
<tr>
<td>Relative density</td>
<td>Not determined</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Not determined</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not determined</td>
</tr>
<tr>
<td>Solubility in / Miscibility with Water:</td>
<td>Slightly soluble</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water):</td>
<td>Not determined</td>
</tr>
</tbody>
</table>

(Contd. on page 5)
Trade name: Q-Tel 2062 Part A

10 Stability and reactivity

- **Reactivity**: No further relevant information available.
- **Chemical stability**
  - **Thermal decomposition / conditions to be avoided**: No decomposition if used according to specifications.
  - **Possibility of hazardous reactions**: No dangerous reactions known.
  - **Conditions to avoid**
    - Moisture
    - Exposure to high temperatures.
- **Incompatible materials**:
  - Strong oxidizers, acids, and bases.
  - Reacts with nitrates.
  - Reacts with alcohols.
- **Hazardous decomposition products**: Carbon monoxide and carbon dioxide

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity**:
  - **Primary irritant effect**:
    - **on the skin**: May irritate the skin.
    - **on the eye**: Irritating effect.
  - **Sensitization**: No sensitizing effects known.
- **Additional toxicological information**:
  - The product is not subject to classification according to internally approved calculation methods for preparations:
    - When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.
- **Carcinogenic categories**
  - **IARC (International Agency for Research on Cancer)**
    - 103-23-1 bis(2-ethylhexyl) adipate [3]
  - **NTP (National Toxicology Program)**
    - None of the ingredients is listed.
  - **OSHA-Ca (Occupational Safety & Health Administration)**
    - None of the ingredients is listed.
12 Ecological information

· Toxicity
  · Aquatic toxicity: No further relevant information available.
  · Persistence and degradability: No further relevant information available.
· Behavior in environmental systems:
  · Bioaccumulative potential: No further relevant information available.
  · Mobility in soil: No further relevant information available.
· Additional ecological information:
  · General notes: At present there are no ecotoxicological assessments.
· Results of PBT and vPvB assessment
  · PBT: Not applicable.
  · vPvB: Not applicable.
· Other adverse effects: No further relevant information available.

13 Disposal considerations

· Waste treatment methods
  · Recommendation: Must be specially treated adhering to official regulations.
· Uncleaned packagings:
  · Recommendation: Disposal must be made according to official regulations.

14 Transport information

· UN-Number
  · DOT, ADN, IMDG, IATA: not regulated
· UN proper shipping name
  · DOT, ADN, IMDG, IATA: not regulated
· Transport hazard class(es)
  · DOT, ADN, IMDG, IATA: not regulated
· Class
  · DOT, ADN, IMDG, IATA: not regulated
· Packing group
  · DOT, IMDG, IATA: not regulated
· Environmental hazards:
  · Not applicable.
· Special precautions for user
  · Not applicable.
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
  · Not applicable.
· UN "Model Regulation":
  · not regulated

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture
  · Sara
  · Section 355 (extremely hazardous substances):
    None of the ingredients is listed.


Trade name: Q-Tel 2062 Part A

- **Section 313 (Specific toxic chemical listings):**
  None of the ingredients is listed.

- **TSCA (Toxic Substances Control Act):**
  All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements.

- **Proposition 65**

  - **Chemicals known to cause cancer:**
    None of the ingredients is listed.

  - **Chemicals known to cause reproductive toxicity for females:**
    None of the ingredients is listed.

  - **Chemicals known to cause reproductive toxicity for males:**
    None of the ingredients is listed.

  - **Chemicals known to cause developmental toxicity:**
    None of the ingredients is listed.

- **(DSL) Canada Domestic Substance List**
  All components of this product are on the DSL(Canada Domestic Substance list) or are exempt from DSL requirements.

- **New Jersey Right-to-Know List:**
  103-23-1 bis(2-ethylhexyl) adipate

- **New Jersey Special Hazardous Substance List:**
  103-23-1 bis(2-ethylhexyl) adipate

- **Pennsylvania Right-to-Know List:**
  103-23-1 bis(2-ethylhexyl) adipate

- **Pennsylvania Special Hazardous Substance List:**
  103-23-1 bis(2-ethylhexyl) adipate

- **Cancerogenity categories**

  - **EPA (Environmental Protection Agency)**
    103-23-1 bis(2-ethylhexyl) adipate

  - **TLV (Threshold Limit Value established by ACGIH)**
    None of the ingredients listed.

  - **MAK (German Maximum Workplace Concentration)**
    None of the ingredients is listed.

  - **NIOSH-Ca (National Institute for Occupational Safety and Health)**
    None of the ingredients is listed.

- **National regulations:**

  - **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.
  - **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

* **16 Other information**
Although the information and recommendations set forth in this SDS are presented in good faith and are believed to be correct as of the date of this SDS, Royal Adhesives & Sealants makes no representations as to the completeness or accuracy thereof. Information is supplied on the condition that the persons receiving and using it will make their own determination as to the suitability for their purpose prior to use. In no event will Royal Adhesives & Sealants or any affiliate thereof be responsible for damages of any nature whatsoever resulting from the use or reliance on the information set forth in the SDS.

- **Department issuing SDS:** Environment protection department.
- **Creation Date:** 09/28/2016
- **Date of preparation / last revision:** 09/28/2016 / 1
- **Abbreviations and acronyms:**
  - IMDG: International Maritime Code for Dangerous Goods
  - DOT: US Department of Transportation
  - IATA: International Air Transport Association
  - ACGIH: American Conference of Governmental Industrial Hygienists
  - EINECS: European Inventory of Existing Commercial Chemical Substances
  - ELINCS: European List of Notified Chemical Substances
  - CAS: Chemical Abstracts Service (division of the American Chemical Society)
  - NFPA: National Fire Protection Association (USA)
  - HMIS: Hazardous Materials Identification System (USA)
  - PBT: Persistent, Bioaccumulative and Toxic
  - vPvB: very Persistent and very Bioaccumulative
  - NIOSH: National Institute for Occupational Safety
  - OSHA: Occupational Safety & Health
  - TLV: Threshold Limit Value
  - PEL: Permissible Exposure Limit
  - REL: Recommended Exposure Limit
  - Acute Tox. 4: Acute toxicity – Category 4