1. Product and Company Identification

**Product Name:** Ultrabond 1 (Part A)  
**Product Use:** Anchoring

**Company Identification:**  
ADHESIVES TECHNOLOGY CORP.  
450 East Copans Road  
Pompano Beach, FL 33064  
Contact Phone: 1.800.892.1880  
(9:00a.m. – 5:00p.m. EST)

**Emergency Phone:**  
Chem-Tel: 1.800.255.3924 (24hrs)

____________________________________________________________________________________________________

2. Hazards Identification (Part A)

<table>
<thead>
<tr>
<th>GHS Classification</th>
<th>Physical</th>
<th>Environmental</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Irritant Cat 2</td>
<td>Not Classified</td>
<td>Toxic to Aquatic Life Cat-2</td>
</tr>
<tr>
<td>Eye Irritant Cat 2A</td>
<td>Not Classified</td>
<td></td>
</tr>
<tr>
<td>Skin Sens Cat 1</td>
<td>Not Classified</td>
<td></td>
</tr>
</tbody>
</table>

**GHS Label:**

**Warning:**

⚠️

Causes eye irritation  
Skin irritant  
May cause skin sensitization

**Emergency Overview**

May cause skin sensitization  
Avoid contact with the skin and eyes  
Avoid breathing fume/gas/mist/vapors/spray  
Wear protective gloves/protective clothing/eye protection/face protection  
Use outdoors or in a well-ventilated area

**Primary Route of Exposure**

Eyes, skin and oral

**Carcinogenicity**

This product contains titanium dioxide which IARC has classified as a Group 2B carcinogen (possibly carcinogenic to humans). Evidence is based on sufficient animal testing as a result of long-term inhalation at high concentrations of respirable amounts of titanium dioxide. Because this product is in liquid or paste form, it does not pose a dust hazard; therefore, this classification is not relevant. Note: sanding of this product will create a possible dust hazard.

This product or one of its ingredients present at 0.1% or more IS listed as a carcinogen or suspect carcinogen by NTP, IARC, Prop 65 or OSHA.
3. Composition/ Information on Ingredients (Part A)

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Content %</th>
<th>Chemical Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>25085-99-8</td>
<td>30 - 60</td>
<td>Diglycidyl Ether of Bisphenol A</td>
</tr>
<tr>
<td>107-21-1</td>
<td>1 - 5</td>
<td>Ethylene Glycol</td>
</tr>
<tr>
<td>14808-60-7</td>
<td>20 – 40</td>
<td>Quartz Silica Sand (Crystalline Silica)</td>
</tr>
<tr>
<td>13463-67-7</td>
<td>1 - 5</td>
<td>Titanium Dioxide</td>
</tr>
<tr>
<td>Proprietary</td>
<td>3 - 7</td>
<td>Non – Hazardous Proprietary Ingredients</td>
</tr>
<tr>
<td>68460-21-9</td>
<td>7 - 15</td>
<td>Trimethylol Ethane Triglycidyl Ether</td>
</tr>
</tbody>
</table>

4. First Aid Measures (Part A)

**Inhalation:** Move to fresh air; give oxygen if breathing is difficult. Call a physician if symptoms persist.

**Eyes:** Immediately flush eyes with plenty of water for at least 15 minutes. Call a physician if symptoms persist.

**Skin:** Remove contaminated clothing. Wash with mild soap and water. Get medical attention if skin irritation or dermatitis persists.

**Ingestion:** Give plenty of water. DO NOT induce vomiting. Call a physician immediately.

**Other:** Referral to a physician is recommended if there is any question about the seriousness of the injury/exposure. If sensitization occurs, future contact with the material should be avoided.

5. Fire Fighting Measures (Part A)

- **Flash Point:** >149°C (300°F)
- **Flammable Limits:** N/A

**Extinguisher Media**
Carbon Dioxide, Dry Chemical, Water Fog

**Unusual Fire and Explosion Hazard**
None known. Thermal decomposition can be formed.

**Special Fire Fighting Procedures**
Firefighters must wear self-contained breathing apparatus and full protective clothing to prevent contact with toxic and/or irritating fumes.

6. Accidental Release Measures (Part A)

**Personal Precautions:**

This product contains crystalline silica (quarts sand). IARC has classified crystalline silica as a Group 1 carcinogen. Both IARC and NTP consider silica as a known human carcinogen. Evidence is based on the chronic and long-term exposure workers have had to respirable sized crystalline silica dust particles. Because this product is in liquid or paste form, it does not pose a dust hazard; therefore, this classification is not relevant. Note: sanding of this product will create a possible silica dust hazard.
Avoid all personal contact. In enclosed areas, cleanup personnel should wear self-contained breathing apparatus.

**Environmental Precautions:**
Cover spills with sawdust, vermiculite, or other absorbent material to minimize spreading of the material before collecting.

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### 7. Handling and Storage (Part A)

**Handling:** Avoid contact with eyes, skin and clothing. Avoid inhalation of vapors. Use with adequate ventilation. Use appropriate personal protection equipment (Section 8). Wash thoroughly after handling.

**Storage:** Store in a cool dry place away from direct sunlight. Keep from freezing. Recommended storage temperature range in between 4 °C and 35 °C (40°F and 95°F).

---

### 8. Exposure Control and Personal Protection (Part A)

#### Exposure Guidelines

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>OSHA PEL</th>
<th>TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene Glycol</td>
<td>107-21-1</td>
<td>50 ppm (Ceiling)</td>
<td>100 mg/m³ (Ceiling)</td>
</tr>
<tr>
<td>Quartz Silica Sand</td>
<td>14808-60-7</td>
<td>0.1 mg/m³</td>
<td>0.025 mg/m³</td>
</tr>
<tr>
<td>(Crystalline Silica)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Titanium Dioxide</td>
<td>13463-67-7</td>
<td>15 mg/m³</td>
<td>10 mg/m³</td>
</tr>
</tbody>
</table>

**Engineering Measures:** Use local and general exhaust ventilation to maintain airborne concentrations below TLV. Suitable respiratory equipment should be used in cases of insufficient ventilation or where operational procedures demand it.

**Personal Protective Equipment**

**Respiratory Protection**
None normally required. Use a NIOSH approved organic vapor chemical cartridge respirator when air movement is inadequate to control vapor build-up.

**Eye/Face Protection**
Wear splash proof chemical goggles/ full face shield if there is a potential for splashing.

**Skin / Body Protection**
Wear suitable gloves (neoprene, nitrile rubber or PVC) and protective clothing to mitigate exposure.

**Other Protective Clothing or Equipment**
Use protective clothing which is chemical resistant to this material. Safety shoes and boots should also be chemical resistant.

---

### 9. Physical and Chemical Properties (Part A)
10. Stability and Reactivity (Part A)

Stability: Stable.

Thermal Decomposition: Can yield CO, CO₂ and organic Nitrogen compounds.

Incompatibility: Strong acids, peroxides, and other oxidizing agents.

Conditions to avoid: Exposure to excessive heat and storage above 35°C (95°F) will shorten shelf life.

11. Toxicological Information (Part A)

Acute Oral Toxicity: Not Determined

Acute Dermal Toxicity: Not Determined

Acute Inhalation Toxicity: Not Determined

Skin Irritation: Irritating to skin.
The product has not been tested. The statement has been derived from the properties of the individual components.

Eye Irritation: Irritating to eyes.
The product has not been tested. The statement has been derived from the properties of the individual components.

Respiratory Irritation: Inhalation of vapors or mists may cause irritation to the respiratory system.

Sensitization: May cause allergic skin reaction and irritation to the respiratory system.
The product has not been tested. The statement has been derived from the properties of the individual components.

Carcinogenicity Classification:
Quartz Silica Sand (Crystalline Silica) - See Part A Section 2.
IARC Group1: Known human carcinogen based on human evidence.
NTP (National Toxicology Program) has classified Crystalline Silica as a known human carcinogen.

12. Ecological Information (Part A)

Acute Toxicity for:
Fish:
Diglycidyl Ether of Bisphenol A:
Fathead minnow/LC50 (96hrs): >3.1mg/l

Aquatic Invertebrates:
Diglycidyl Ether of Bisphenol A:
Water Flea Daphnis/EC 50 (48hrs): > 1.4mg/l

Algae:
No Data Available

Microorganisms:
Diglycidyl Ether of Bisphenol A:
Bacteria, (Growth inhibition)/IC50 (18hrs): > 42.6mg/l

Mobility:
Considering the use of the substance, it is unlikely that significant environmental exposure in the air or water will arise.

13. Disposal Considerations (Part A)

If the material as supplied becomes a waste, dispose in accordance with federal, state and local regulations.

14. Transportation Information (Part A)

This product is not regulated as a hazardous material for transportation.

15. Regulatory Information (Part A)

<table>
<thead>
<tr>
<th>HMIS Rating</th>
<th>NFPA Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>*2</td>
</tr>
<tr>
<td>Flammability</td>
<td>1</td>
</tr>
<tr>
<td>Physical Hazard</td>
<td>0</td>
</tr>
<tr>
<td>PPE</td>
<td>1</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>CERCLA RQ</th>
<th>CAS #</th>
<th>Chemical Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>5000 lbs</td>
<td>107-21-1</td>
<td>Ethylene Glycol</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>SARA Title 311/312</th>
<th>Chronic Health Hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>CA Prop 65</td>
<td>This product contains a chemical or chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.</td>
</tr>
<tr>
<td>TSCA</td>
<td>Listed</td>
</tr>
</tbody>
</table>

State Regulations:

<table>
<thead>
<tr>
<th>State RTK</th>
<th>CAS #</th>
<th>Chemical Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>NJ, MA, PA</td>
<td>25085-99-8</td>
<td>Diglycidyl Ether of Bisphenol A</td>
</tr>
<tr>
<td></td>
<td>107-21-1</td>
<td>Ethylene Glycol</td>
</tr>
<tr>
<td></td>
<td>14808-60-7</td>
<td>Quartz Silica Sand (Crystalline Silica)</td>
</tr>
<tr>
<td></td>
<td>13463-67-7</td>
<td>Titanium Dioxide</td>
</tr>
</tbody>
</table>

16. Other Information (Part A)

Hazard Communication: This SDS has been prepared in accordance with the federal OSHA Hazard Communication Standard.

To the best of our knowledge, the information contained herein is accurate. However, Adhesives Technology Corp. does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Additional information is available upon request.
1. Product and Company Identification

**Product Name:** Ultrabond 1 (Part B)  
**Product Use:** Anchoring

**Company Identification:**  
ADHESIVES TECHNOLOGY CORP.  
450 East Copans Road  
Pompano Beach, FL 33064  
Contact Phone: 1.800.892.1880  
(9:00a.m. – 5:00p.m. EST)

2. Hazards Identification (Part B)

**GHS Classification**

<table>
<thead>
<tr>
<th>Health</th>
<th>Physical</th>
<th>Environmental</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Corrosion Cat 1</td>
<td>Not Classified</td>
<td>Toxic to Aquatic Life Cat-2</td>
</tr>
<tr>
<td>Serious Eye Damage Cat 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Skin Sen 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reproductive Tox Cat 2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**GHS Label:**

**Danger:**

Corrosive to skin and eyes  
May cause skin sensitization  
Reproductive toxicity

**Emergency Overview**

Causes skin burns  
Causes severe eye damage  
May cause skin sensitization  
Heated vapors can cause irritation  
Avoid contact with the skin and eyes  
Avoid breathing fume/gas/mist/vapors/spray  
Wear protective gloves/protective clothing/eye protection/face protection  
Use outdoors or in a well-ventilated area

**Primary Route of Exposure**

Eyes, skin and oral

**Carcinogenicity**

This product contains crystalline silica (quarts sand). IARC has classified crystalline silica as a Group 1 carcinogen. Both IARC and NTP consider silica as a known human carcinogen. Evidence is based on the chronic and long-term exposure workers have had to respirable sized crystalline silica dust particles. Because this product is in liquid or paste form, it does not pose a dust hazard; therefore, this classification is not relevant. Note: sanding of this product will create a possible silica dust hazard.
This product or one of its ingredients present at 0.1% or more IS listed as a carcinogen or suspect carcinogen by NTP, IARC, Prop 65 or OSHA.

3. Composition/ Information on Ingredients (Part B)

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Content %</th>
<th>Chemical Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>140-31-8</td>
<td>3 – 7</td>
<td>n-aminoethylpiperazine</td>
</tr>
<tr>
<td>84852-15-3</td>
<td>3 – 7</td>
<td>Nonylphenol</td>
</tr>
<tr>
<td>90-72-2</td>
<td>3 – 7</td>
<td>Tris-2, 4, 6(dimethylaminomethyl) phenol</td>
</tr>
<tr>
<td>Proprietary</td>
<td>40 – 60</td>
<td>Non – Hazardous Proprietary Ingredients</td>
</tr>
<tr>
<td>68082-29-1</td>
<td>15 – 30</td>
<td>Liquid Polyamide Resin</td>
</tr>
<tr>
<td>107-21-1</td>
<td>0.1– 1</td>
<td>Ethylene Glycol</td>
</tr>
<tr>
<td>14808-60-7</td>
<td>1 – 5</td>
<td>Quartz Silica Sand (Crystalline Silica)</td>
</tr>
</tbody>
</table>

4. First Aid Measures (Part B)

**Inhalation:** Move to fresh air; give oxygen if breathing is difficult. Call a physician if symptoms persist.

**Eyes:** Immediately flush eyes with plenty of water for at least 15 minutes. Call a physician if symptoms persist.

**Skin:** Remove contaminated clothing. Wash with mild soap and water. Get medical attention if skin irritation or dermatitis persists.

**Ingestion:** Give plenty of water. DO NOT induce vomiting. Call a physician immediately.

**Other:** Referral to a physician is recommended if there is any question about the seriousness of the injury/exposure. If sensitization occurs, future contact with the material should be avoided.

5. Fire Fighting Measures (Part B)

**Flash Point:** >93°C (200°F)

**Flammable Limits:** N/A

**Extinguisher Media**
Carbon Dioxide, Dry Chemical, Water Fog

**Unusual Fire and Explosion Hazard**
None known. Thermal Decomposition can be formed.

**Special Fire Fighting Procedures**
Firefighters must wear self-contained breathing apparatus and full protective clothing to prevent contact with toxic and/or irritating fumes.

6. Accidental Release Measures (Part B)

**Personal Precautions:**
Avoid all personal contact. In enclosed areas, cleanup personnel should wear self-contained breathing apparatus.

**Environmental Precautions**
Cover spills with sawdust, vermiculite, or other absorbent material to minimize spreading of the material before collecting.

---

### 7. Handling and Storage (Part B)

**Handling:** Avoid contact with eyes, skin and clothing. Avoid inhalation of vapors. Use with adequate ventilation. Use appropriate personal protection equipment (Section 8). Wash thoroughly after handling.

**Storage:** Store in a cool dry place away from direct sunlight. Keep from freezing. Recommended storage temperature range in between 4 ºC and 35 ºC (40ºF and 95º F).

---

### 8. Exposure Control and Personal Protection (Part B)

**Exposure Guidelines**

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>OSHA PEL</th>
<th>TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene Glycol</td>
<td>107-21-1</td>
<td>50 ppm (Ceiling)</td>
<td>100 mg/ m³ (Ceiling)</td>
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<tr>
<td>Quartz Silica Sand (Crystalline Silica)</td>
<td>14808-60-7</td>
<td>0.1 mg/m³</td>
<td>0.025 mg/m³</td>
</tr>
</tbody>
</table>

**Engineering Measures:** Use local and general exhaust ventilation to maintain airborne concentrations below TLV. Suitable respiratory equipment should be used in cases of insufficient ventilation or where operational procedures demand it.

**Personal Protective Equipment**

**Respiratory Protection**
None normally required. Use a NIOSH approved organic vapor chemical cartridge respirator when air movement is inadequate to control vapor build-up.

**Eye / Face Protection**
Wear splash proof chemical goggles/full face shield if there is a potential for splashing.

**Skin / Body Protection**
Wear Suitable gloves (neoprene, nitrile rubber or PVC) and protective clothing to mitigate exposure.

**Other Protective Clothing or Equipment**
Use protective clothing which is chemical resistant to this material. Safety shoes and boots should also be chemical resistant.

---

### 9. Physical and Chemical Properties (Part B)

**Appearance:** Black Paste
10. Stability and Reactivity (Part B)

Stability: Stable.

Thermal Decomposition: Can yield CO, CO₂ and organic Nitrogen compounds.

Incompatibility: Strong acids, peroxides, and other oxidizing agents.

Conditions to avoid: Exposure to excessive heat and storage above 35°C (95°F) will shorten shelf life.

11. Toxicological Information (Part B)

**Acute Oral Toxicity:**
Not Determined

**Acute Dermal Toxicity:**
Not Determined

**Acute Inhalation Toxicity:**
Not Determined

**Skin Irritation:**
Corrosive to skin
The product has not been tested. The statement has been derived from the properties of the individual components.

**Eye Irritation:**
Severe damage to eyes.
The product has not been tested. The statement has been derived from the properties of the individual components.

**Respiratory Irritation:**
Inhalation of vapors or mists may cause irritation to the respiratory system.

**Sensitization:**
May cause allergic skin reaction and irritation to the respiratory system.
The product has not been tested. The statement has been derived from the properties of the individual components.

**Maternal Toxicity:**
Nonylphenol causes maternal toxic effects per animal testing.

**Carcinogenicity Classification:**
Quartz Silica Sand (Crystalline Silica) – See Part B Section 2.
IARC Group 1: Known human carcinogen based on human evidence.
NTP (National Toxicology Program) has classified Crystalline Silica as a known human carcinogen.

### 12. Ecological Information (Part B)

**Fish:**
Liquid Polyamide Resin:
Zebradfish /LC50 (96hrs) : >5.0mg/l

**Aquatic Invertebrates:**
Liquid Polyamide Resin:
Water Flea Daphnis/EC 50 (48hrs): > 7.07mg/l

**Algae:**
No Data Available

**Microorganisms:**
No Data Available

**Mobility:**
Considering the use of the substance, it is unlikely that significant environmental exposure is the air or water will arise.

### 13. Disposal Considerations (Part B)

If the material as supplied becomes a waste, dispose in accordance with federal, state and local regulations.

### 14. Transportation Information (Part B)

**DOT (US)**
CARTRIDGE: Limited Quantity, LTD QTY
BULK: Corrosive Liquid, n.o.s. (aminoethylpiperazine, 4-Nonylphenol, branched), Class 8, UN 1760, PG III

**IATA/ICAO**
CARTRIDGE/BULK: Corrosive Liquid, n.o.s. (aminoethylpiperazine, 4-Nonylphenol, branched), Class 8, UN 1760, PG III

**IMDG**
CARTRIDGE/BULK: Corrosive Liquid, n.o.s. (aminoethylpiperazine, 4-Nonylphenol, branched), Class 8, UN 1760, PG III

### 15. Regulatory Information (Part B)
Safety Data Sheet
Ultrabond 1
Created On: 03/20/2014
Revision Date: 12/11/2014
Version: 2.0

NFPA Rating

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

Federal Regulations:

<table>
<thead>
<tr>
<th>CERCLA RQ</th>
<th>CAS #</th>
<th>Chemical Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>5000 lbs.</td>
<td>107-21-1</td>
<td>Ethylene Glycol</td>
</tr>
</tbody>
</table>

SARA Title 311/312
Chronic Health Hazard

CA Prop 65
This product contains a chemical or chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

TSCA
Listed

State Regulations:

<table>
<thead>
<tr>
<th>State RTK</th>
<th>CAS #</th>
<th>Chemical Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>NJ, MA, PA</td>
<td>107-21-1</td>
<td>Ethylene Glycol</td>
</tr>
<tr>
<td></td>
<td>14808-60-7</td>
<td>Quartz Silica Sand (Crystalline Silica)</td>
</tr>
<tr>
<td></td>
<td>140-31-8</td>
<td>n-aminoethylpiperazine</td>
</tr>
</tbody>
</table>

16. Other Information (Part B)

Hazard Communication: This SDS has been prepared in accordance with the federal OSHA Hazard Communication Standard.

To the best of our knowledge, the information contained herein is accurate. However, Adhesives Technology Corp. does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Additional information is available upon request.