MATERIAL SAFETY DATA SHEET

Section 1 – Product and Company Identification

Company Identification
ADHESIVES TECHNOLOGY CORP.
450 East Copans Road
Pompano Beach, FL 33064

Emergency Phone
(800) 255 – 3924 (24 hours) CHEM-TEL
(800) 892-1880 (9:00 a.m. – 5:00 p.m. EST)

Contact Phone

Effective Date: 07/15/11 | Print Date: 07/15/11 | MSDS #: HS200

Product Name: HS-200 | Prepared By: Richard Boland (x107)

Section 2 – Composition/Information on Ingredients

Part A:
Component | CAS # | % By Weight | PEL | TLV | STEL
Diglycidyl Ether of Bisphenol A | 25085-99-8 | 30% – 60% | NE | NE | NE
Ethylene Glycol | 107-21-1 | < 5% | C 50 ppm | C 100 ppm | NE
Quartz Silica Sand (Crystalline Silica)* | 14808-60-7 | > 2% | 0.1 mg/m³ | 0.1 mg/m³ | NE
Non Hazardous proprietary ingredients | - | 0% – 20% | NE | NE | NE

Part B:
Component | % By Weight | PEL | TLV | STEL
n- aminoethylpiperazine | 140-31-8 | 10% – 40% | NE | NE | NE
Nonyl phenol- | 84852-15-3 | 10% – 40% | NE | NE | NE
Ethylene Glycol | 107-21-1 | < 5% | C 50 ppm | C 100 ppm | NE
Quartz Silica Sand (Crystalline Silica)* | 14808-60-7 | > 2% | 0.1 mg/m³ | 0.1 mg/m³ | NE
Non Hazardous proprietary ingredients | - | 0% – 20% | NE | NE | NE

Section 3 – Hazards Identification

Known Hazards: Part A: Skin and eye irritation. Sensitizer; Part B: Corrosive


Medical Conditions Aggravated by Exposure: Skin, eye, and respiratory conditions

Routes of Exposure: Dermal. Inhalation.

Carcinogenicity: IARC classifies crystalline silica as a Group I carcinogen based upon evidence among workers in industries where there has been long-term and chronic exposure (via inhalation) to silica dust. This product does not pose a dust hazard; therefore, this classification is not relevant unless the product is cured and sanded.*

Section 4 – First Aid Measures

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: Wash with mild soap and water. Launder contaminated clothing before reuse.

Ingestion: If conscious, give plenty of water; do not induce vomiting unless directed to by a physician. Call a physician.

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.

Section 5 – Fire Fighting Measures

Flash Point: Part A: > 300º F. Part B: > 200º F | Flammable Limits: N/A

Extinguisher Media: Carbon Dioxide, Dry Chemical, Water Spray, Foam

Special Fire Fighting Procedures: Use a self-contained breathing apparatus when fighting fires involving chemicals.

Unusual fire and Explosion Hazards: None known. Thermal decomposition products can be formed.

Section 6 – Accidental Release Measures

Avoid all personal contact, scoop up with spade and place in disposable metal container. Flush contaminated areas.

Section 7 – Handling and Storage

Avoid contact with eyes, skin and clothing. Avoid prolonged inhalation of vapors. Use with adequate ventilation. Wash thoroughly after handling. Store in a cool dry place out of direct rays of the sun. Keep from freezing. Recommended storage temperature range in between 40º and 95º F.

Section 8 – Exposure Control/Personal Protection
Respiratory Protection: None normally required. Use a NIOSH–approved organic vapor chemical cartridge respirator when air movement is inadequate to control vapor build-up.

Ventilation: General (natural or mechanical induced fresh air movements)

Eye Protection: Wear splash proof chemical goggles

Protective Gloves: Cloth or impermeable (neoprene or rubber) gloves

Other Protective Clothing or Equipment: Wear appropriate apparel to prevent skin contact

### Section 9 – Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Part A</th>
<th>Part B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>White Paste</td>
<td>Black Paste</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>Part A: 1.6</td>
<td>Part B: 1.4</td>
</tr>
<tr>
<td>Odor</td>
<td>Part A: Slight Odor; Part B: Slight Amine Odor</td>
<td>pH: N/D</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Non-volatile</td>
<td>Vapor Pressure: N/A</td>
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<tr>
<td>Solubility in Water</td>
<td>Insoluble</td>
<td>VOC Content: 11.02 g/l (when mixed)</td>
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<tr>
<td>Evaporation Rate</td>
<td>Non-volatile</td>
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</tbody>
</table>

### Section 10 – Stability and Reactivity

Hazardous Polymerization: Will not occur

Stability: Stable

Incompatibility: Strong acids, peroxides, and other oxidizing agents

Hazardous Decomposition Products: Thermal decomposition can yield CO, CO₂ and organic Nitrogen compounds.

Conditions to Avoid: Exposure to excessive heat and storage above 95°F will shorten shelf life

### Section 11 – Toxicological Information

For detailed toxicological information on the components of this material, contact the address listed in Section 1.

### Section 12 – Disposal Considerations

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

### Section 13 – Transport Information

DOT Shipping Information:

- **CARTRIDGE**: Consumer commodity, ORM-D
- **BULK**: Corrosive Solids, NOS (aminoethylpiperazine, nonylphenol), Class 8, UN 1759, PG III

IATA/ICAO Shipping name:

- **CARTRIDGE**: Corrosive Solids, NOS (aminoethylpiperazine, nonylphenol), Class 8, UN 1759, PG III
- **BULK**: Corrosive Solids, NOS (aminoethylpiperazine, nonylphenol), Class 8, UN 1759, PG III

### Section 14 – Regulatory Information

EPA Waste Code(s): Not regulated by EPA as a hazardous waste

SARA Title III, Section 313: This product contains 0 – 2% ethylene glycol which is subject to reporting under Section 313 of SARA Title III

<table>
<thead>
<tr>
<th>HMIS Rating</th>
<th>Part A</th>
<th>Part B</th>
<th>NFPA Hazard Rating</th>
<th>Part A</th>
<th>Part B</th>
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<tbody>
<tr>
<td>Health</td>
<td>2</td>
<td>3</td>
<td>Health</td>
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<tr>
<td>Flammability</td>
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<td>Flammability</td>
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<tr>
<td>Reactivity</td>
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<td>Reactivity</td>
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<tr>
<td>PPE</td>
<td>B</td>
<td>B</td>
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</tbody>
</table>

### Abbreviations:

- **PEL** = OSHA Permissible Exposure Limit
- **TLV** = ACGIH Threshold Limit Value
- **C** = Ceiling
- **STEL** = Short Term Exposure Limit
- **NE** = None Established
- **NA** = Not Applicable
- **ND** = Not Determined
- **ppm** = parts per million

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.