MATERIAL SAFETY DATA SHEET

SECTION 1: PRODUCT & COMPANY IDENTIFICATION

Product Name: ACC4844

MANUFACTURER'S NAME:
Clifton Adhesive, Inc.
48 Burgess Place
Wayne, NJ 07470

Information and Emergency Phone Number: 973-694-0845
Manufacturer's Phone Number: 973-694-0845

In case of spill or leak involving this material, call Chemtrec 24 hours a day:
(USA) 1-800-424-9300
(International) (703) 527-3884

SECTION 2: COMPOSITION

<table>
<thead>
<tr>
<th>Chemical Name / CAS No</th>
<th>OSHA Exposure Limits</th>
<th>ACGIH Exposure Limits</th>
<th>Other Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLYMETHYLENE POLYPHENYL ISOCYANATE 9016-87-9</td>
<td>Not listed</td>
<td>Not listed</td>
<td></td>
</tr>
<tr>
<td>DIPHENYLMETHANE</td>
<td>0.02ppm (CEILING)</td>
<td>0.005ppm (TWA)</td>
<td></td>
</tr>
<tr>
<td>DIISOCYANATE (MDI) 101-68-8</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Potential eye irritant. Potential skin irritant. Potential respiratory tract irritation. May cause allergic skin reaction. May cause allergic respiratory reaction. May cause lung injury. Sprayed or heated material harmful if inhaled. Toxic flammable gases, fumes, and heat are released under decomposition (fire situations). Reacts slowly with water, releasing gases which can cause pressure buildup and rupture of closed containers. Elevated temperatures accelerate this reaction and can cause hazardous polymerization. Keep upwind of spills and isolate the area.

HMIS Rating: 2 - 1 - 1 - B

PRIMARY ROUTES OF ENTRY:
- Inhalation
- Skin Contact
- Eye Contact
- Ingestion

TARGET ORGANS: Overexposure may cause damage to the following target organs or systems:
- N/A

ACUTE EFFECTS
- May cause moderate eye irritation or slight temporary corneal injury. May cause respiratory irritation or allergic respiratory response, especially if heated.

CHRONIC
- May cause skin irritation. Tissue injury in the upper respiratory tract and lungs has been observed in laboratory animals after repeated excessive exposure to MDI/Polymere MDI aerosols.

OVEREXPOSURE
- Irritation to eyes. Irritation to skin. May cause allergic respiratory response. Symptoms may include coughing, difficulty breathing, and a feeling of tightness in the chest.
CARCINOGENICITY: The following components comprise 0.1% or more of this mixture and are listed and/or classified as carcinogens by the National Toxicology Program (NTP), the International Agency for Research on Cancer (IARC), the Occupational Safety and Health Administration (OSHA) or the American Conference of Governmental and Industrial Hygienists (ACGIH):

Lung tumors have been observed in laboratory animals exposed to aerosol droplets of MDI/Polymeric MDI (6 mg/m3) for their lifetime. Tumors occurred concurrently with respiratory irritation and lung injury. Current exposure guidelines are expected to protect against these effects reported for MDI.

SECTION 4: FIRST AID MEASURES

INHALATION: Move person to fresh air. If the affected person is not breathing perform CPR. If signs/symptoms develop, call a physician.

EYES: Immediately flush eyes with large amounts of water for at least 15 minutes. Get immediate medical attention.

SKIN: Remove contaminated clothing and shoes. Immediately flush skin with large amounts of water for at least 15 minutes. For minor exposures, wash thoroughly with soap and clean water. Get medical attention if irritation persists.

INGESTION: If this material is swallowed, get immediate medical attention or advice. DO NOT INDUCE VOMITING. If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration.

SECTION 5: FIRE FIGHTING MEASURES

LEL: N/A
UEL: N/A
FLASH POINT: >203.9°C/399°F
AUTOIGNITION: 464°F is the lowest known value

EXTINGUISHING MEDIA: Carbon dioxide, dry chemical, or foam. Alcohol resistant foams are preferred if available.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Product reacts with water. Reaction may produce heat and/or gases. Reaction may be violent. Container may rupture from gas generation in a fire situation. Violent steam generation or eruption may occur upon application of direct water stream to hot liquid. Dense smoke is produced when product burns. Do not reseal contaminated containers as pressure build-up may rupture them.

HAZARDOUS COMBUSTION PRODUCTS: Refer to Section X (10).

BASIC FIRE FIGHTING PROCEDURES: NIOSH/MSHA approved self-contained breathing apparatus and full protective equipment should be worn. Water is not recommended, but may be applied in very large quantities as a fine spray when other extinguishing agents are not available. Use water spray to cool fire exposed containers and fire affected zone until fire is out. DO NOT use direct water stream as it may spread fire.

FIRE EQUIPMENT: Wear full protective clothing, including helmet, NIOSH/MSHA approved, self-contained breathing apparatus and face mask.

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Contain spilled material if possible. Releases and/or spills should be handled by operators trained to handle hazardous materials. Wear protective clothing and equipment during clean up.

CONTAINMENT PROCEDURES (SMALL RELEASES): Absorb spill with sawdust, vermiculite, dirt, sand, clay, or cob grit. Do not use absorbent material such as cement powder (may generate heat). Collect in suitable and properly labeled opened containers. Do not use sealed containers. Suitable containers include metal drums, plastic drums, polylined fiber packs. Wash the spill area with large quantities of water. Attempt to neutralize by adding suitable decontaminate solution: 5-10% sodium carbonate, 0.2-2% liquid detergent and water to make up to 100%.

Dispose of in accordance with federal, state, and local waste disposal regulations.
CONTAINMENT PROCEDURES (LARGE RELEASE): Cleanup should be performed by operators trained to handle hazardous materials, wearing the appropriate protective equipment. Dike spills to prevent runoff. Follow recommended containment procedures (small releases) shown above. Dispose of in accordance with federal, state and local waste disposal regulations.

SECTION 7: HANDLING & STORAGE

HANDLING: Avoid breathing vapor. Avoid contact with eyes, skin, and clothing. Use with adequate ventilation. Wash skin thoroughly after handling. Keep container tightly closed. Protect from freezing. For Industrial Use Only.

EMPTY CONTAINER PRECAUTION: Containers may be hazardous when empty due to residuals present. Keep away from heat, sparks, flames or sources of ignition. DO NOT cut, drill, puncture, weld or grind on or near full, partially full, or empty product containers. Observe label and MSDS precautions listed until container has been commercially cleaned and reconditioned or destroyed.

STORAGE: Keep container tightly closed. Store in a dry place out of direct sunlight. Storage temperature is 10-32 deg C (50-90 deg F). Protect from atmospheric moisture. Do not store product contaminated with water to prevent potentially hazardous reaction. Note: Nitrogen may be used to fill head space with inert gas to maximize shelf life once container has been opened. Protect from freezing.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Provide local and general exhaust ventilation to effectively remove and prevent buildup of any vapors or mists generated from handling this product.

VENTILATION: Remove vapors to maintain exposure levels below recommended limits.

GENERAL: Eyewash fountains and emergency showers should be readily available. Use good industrial hygiene practices in handling this material.

EYE PROTECTION: Splash goggles or safety glasses compliant with OSHA regulations. Contact lenses should not be worn.

SKIN PROTECTION: Impervious solvent resistant rubber gloves and protective clothing as required to prevent skin contact.

RESPIRATORY PROTECTION: Avoid breathing vapors or mists of this product. Use NIOSH approved atmosphere supplying or air purifying respirator for hazardous material vapors as required to maintain exposure levels below recommended limits. Refer to Section 2 for exposure limits.

SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

Numerical values represent best estimates from available component data. Test values for the finished product are not available.

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odor</td>
<td>Characteristic solvent odor</td>
</tr>
<tr>
<td>Physical State</td>
<td>Brown liquid</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>0.000001 mmHg @ (25°C)</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not available</td>
</tr>
<tr>
<td>Specific Gravity (SG)</td>
<td>1.240</td>
</tr>
<tr>
<td>Formula Lb / Gal</td>
<td>10.35</td>
</tr>
<tr>
<td>Lbs VOC/Gallon less water less exempts</td>
<td>0.00</td>
</tr>
<tr>
<td>Gms VOC/ Liter less water less exempts</td>
<td>0.00</td>
</tr>
</tbody>
</table>

SECTION 10: STABILITY & REACTIVITY
CONDITIONS TO AVOID: Avoid temperature above 41 deg C (105 deg F) and temperatures below 20 deg C (68 deg F). Avoid heat, open flames, sparks, and hot surfaces. Product can decompose at elevated temperatures. Generation of gas during decomposition can cause pressure in closed systems. Pressure build-up can be rapid. Avoid moisture. Material reacts slowly with water releasing carbon dioxide and heat which can cause pressure build-up and rupture of closed containers. Elevated temperatures accelerate this reaction. Avoid contact with polyols. The reaction of polyols and isocyanates generate heat.

STABILITY: Stable under recommended storage conditions.

HAZARDOUS POLYMERIZATION: May occur at elevated temperatures. Polymerization can be catalyzed by strong bases or water.

INCOMPATIBLE PRODUCTS (Avoid Contact with):
Note: 1. The reaction of polyols and isocyanates generates heat. The rate of reaction increases with temperature as well as increased contact. These reactions can become violent. Contact is increased by stirring.
2. Reaction with water will generate carbon dioxide and heat. Generation of gas can cause pressure build-up in closed systems.

- Strong oxidizers
- Glycols
- Moisture
- Moist air
- Aluminum
- Brass
- Copper or copper alloys
- Galvanized metals
- Moist organic absorbents
- Tin
- Zinc
- Acids
- Water
- Amines
- Alkalis (bases)
- Alcohols
- Ammonia
- Polyols

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS CONDITIONS DURING COMBUSTION: Gases are released during decomposition.

- Oxides of Carbon.
- Oxides of nitrogen.

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL DATA: See data listed under Hazards Identification (Section 3).

SECTION 12: ECOLOGICAL INFORMATION

ENVIRONMENTAL IMPACT: No data is currently available for the impact of this mixture of components on the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of in accordance with federal, state, and local regulations. The user is responsible for proper waste identifications, transportation, and disposal based on the characteristics supplied as received. Any processing, use, or contamination of the product invalidates this information.
SECTION 14: TRANSPORT INFORMATION

TRANSPORTATION INSTRUCTIONS: Ship in compliance with federal, state and local regulations based on hazards listed:

<table>
<thead>
<tr>
<th>Agency</th>
<th>UN Number</th>
<th>Proper Shipping Name</th>
<th>HazardClass</th>
<th>Packing Group</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT</td>
<td>Non-Regulated Materials, N.O.S.</td>
<td>101-68-8 DIPHENYLMETHANE DIISOCYANATE (MDI)</td>
<td>9016-87-9 POLYMETHYLENE POLYPHENYL ISOCYANATE</td>
<td>Non-Regulated Materials, N.O.S.</td>
</tr>
</tbody>
</table>

SECTION 15: REGULATORY INFORMATION

The user of this product is responsible for the determination of local regulatory requirements for the use, handling and labeling of the product based on the information provided.

Top five components by weight:
101-68-8 DIPHENYLMETHANE DIISOCYANATE (MDI)
9016-87-9 POLYMETHYLENE POLYPHENYL ISOCYANATE
TSR13972500025514P

New Jersey Right To Know:
101-68-8 DIPHENYLMETHANE DIISOCYANATE (MDI)
9016-87-9 POLYMETHYLENE POLYPHENYL ISOCYANATE

PROP 65: This product contains chemicals known to the state of California to cause cancer, birth defects and/or reproductive harm.
- None

SARA 313: Contains the following items above the reportable limits under SARA Title III Section 313:
DIPHENYLMETHANE DIISOCYANATE (MDI)  101-68-8
POLYMETHYLENE POLYPHENYL ISOCYANATE  9016-87-9

TSCA (TOXIC SUBTANCES CONTROL ACT): The ingredients in this product are listed with the following exceptions:

- None

SARA 313: This product contains the following items above the reportable limits under SARA Title III Section 313:
101-68-8 DIPHENYLMETHANE DIISOCYANATE (MDI)
9016-87-9 POLYMETHYLENE POLYPHENYL ISOCYANATE

SECTION 16: OTHER INFORMATION

DISCLAIMER LIABILITY: Since conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of this product. The information contained in this MSDS is believed to be true and accurate but all statements or suggestions are made without warranty, express or implied regarding the accuracy of the information. The hazards connected with the use of the product or the results to be obtained from the use thereof. Compliance with all Federal, state and local laws and regulations remains the responsibility of the user.

USER'S RESPONSIBILITY: This MSDS cannot cover all possible situations which the user may experience during processing. You should examine each aspect of your operation and determine if additional precautions should be taken. All health and safety information contained in this MSDS should be provided to your employees or customers. It is your responsibility to use this information to develop appropriate work practice guidelines and employee training programs for your operation.