Section 1 - Chemical Product and Company Identification

PRODUCT NAME: Vinyl Acetate  
CAS NUMBER: 108-05-4  
CHEMICAL NAME: Same  
MSDS NUMBER: 7697  
CHEMICAL FORMULA: $C_4H_6O_2$  
FORMULA WT.: 86.9

MONOMER-POLYMER & DAJAC LABORATORIES  
4667 SOMERTON RD.  
TREVOSE, PA  19053

EMERGENCY TELEPHONE NUMBER (CHEMTREC): (800) 424-9300 or (703) 527-3887  
INFORMATION TELEPHONE NUMBER: (215) 364-1155

PREPARED BY: Michael A. Burns  
March 14, 2011

SUPERSEDES: 2-12-2001

Section 2 - Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>CAS NUMBER</th>
<th>HAZARDOUS COMPONENT</th>
<th>NTP</th>
<th>IARC</th>
<th>SUB-PART Z</th>
<th>SARA 313</th>
<th>OSHA PEL</th>
<th>ACGIH TLV-TWA</th>
<th>OTHER LIMITS</th>
<th>PERCENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>108-05-4</td>
<td>Vinyl Acetate</td>
<td>N</td>
<td>2B</td>
<td>Yes</td>
<td>1.0%</td>
<td>2 mg/m³</td>
<td>10 ppm</td>
<td>N/D</td>
<td>99.9%</td>
</tr>
</tbody>
</table>

Section 3 - Hazards Identification

ROUTE(S) OF ENTRY: Eyes, skin, inhalation and ingestion

HEALTH HAZARDS (ACUTE AND CHRONIC):

EYES: May cause eye irritation.

SKIN: May cause skin irritation with redness or discoloration, itching, burning, pain or blistering. May cause skin sensitization in humans.

INHALATION: May cause respiratory system irritation. Be prepared to observe for potential accumulation of fluid in the lungs (pulmonary edema).

INGESTION: May be irritating to the mouth, throat and stomach.

SIGNS OF OVEREXPOSURE: Respiratory irritation, dizziness, nausea, loss of consciousness
OTHER HEALTH WARNINGS: None noted

**Section 4 - First Aid Measures**

**EYE CONTACT:** Remove contact lenses immediately. Wash with copious amounts of water for at least 15 minutes. Do not rub eyes. Seek medical attention immediately.

**SKIN CONTACT:** Wash thoroughly with soap and water. Remove contaminated clothing. Get immediate medical attention.

**INHALATION:** Move to fresh air. Seek medical attention.

**INGESTION:** If swallowed, immediately drink a large quantity of milk or water and call a physician.

**Section 5 - Fire-Fighting Measures**

**FLASH POINT:** 17.6°F (-8°C)  **FLAMMABLE LIMITS:** N/D  **LEL:** 2.6%  **UEL:** 13.4%

**EXTINGUISHING MEDIA:** Dry chemical, foam, carbon dioxide. Water fogs should be used to cool containers exposed to extreme heat.

**SPECIAL FIRE FIGHTING PROCEDURES:** Cool fire-exposed containers with water. Use self-contained breathing apparatus in confined areas.

**UNUSUAL FIRE FIGHTING PROCEDURES:** N/D

**Section 6 - Accidental Release Measures**

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:**

**FOR LARGE SPILLS:** Eliminate ignition sources. Add dry material to absorb spill (If large spill, dike to contain). Using recommended protective equipment, pick up bulk of spill and containerize for recovery or disposal. Flush area with water to remove residues.

**FOR SMALL SPILLS:** Pick up with flame retardant treated absorbant and dispose of according to all applicable regulations.

**Section 7 - Handling and Storage**

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** Use safety goggles and chemical resistant rubber gloves and clothes. Wear appropriate NIOSH/MSHA-approved respirator with organic vapor cartridge N/A
with local exhaust. Store in a tightly closed container in a dry, cool(<30*C (86*F)) area. Always open containers slowly to allow any excess pressure to vent. Avoid initiators, heat or UV-light. Avoid contact with the material. Avoid prolonged or repeated exposure. Lab should equipped with a safety shower and an eye wash station. Wash thoroughly after handling material. Keep away from heat and open flames. Material should only be handled by qualified, experienced professionals.

OTHER PRECAUTIONS: Store at the temperature below 86°F in tightly closed containers. Avoid exposure to heat, sunlight and Ultra-violet.

Section 8 - Exposure Controls / Personal Protection

VENTILATION REQUIREMENTS: Ventilation should be designed in accordance with good engineering practices.

PERSONAL PROTECTIVE EQUIPMENT:

RESPIRATORY PROTECTION: Wear appropriate NIOSH/MSHA-approved respirator with organic vapor cartridge N/A with local exhaust.

EYE PROTECTION: Splashproof goggles or face shield (ANSI Z87.1 or approved equivalent).

DERMAL PROTECTION: Protect all exposed skin from contact. Use impermeable gloves made of chemically inert material. Use chemically resistant apron or other chemically impervious clothing to avoid prolonged or repeated skin contact.

OTHER: Eyewash and safety showers should be available in areas where this product is handled.

Section 9 - Physical and Chemical Properties

<table>
<thead>
<tr>
<th>SOLUBILITY IN WATER @ 20°C</th>
<th>2.3%</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPECIFIC GRAVITY (H2O = 1)</td>
<td>0.934</td>
</tr>
<tr>
<td>APPEARANCE AND ODOR:</td>
<td>Colorless, clear liquid with sweetish odor.</td>
</tr>
<tr>
<td>BOILING POINT</td>
<td>162.86°F</td>
</tr>
<tr>
<td>VAPOR PRESSURE @ 20°C</td>
<td>89.1 mm Hg</td>
</tr>
<tr>
<td>VAPOR DENSITY @ 20°C</td>
<td>2.97</td>
</tr>
<tr>
<td>EVAPORATION RATE:</td>
<td>8.9 (n-Butyl Acetate = 1)</td>
</tr>
<tr>
<td>MELTING POINT</td>
<td>-135.04°F</td>
</tr>
</tbody>
</table>

Section 10 - Stability and Reactivity

STABILITY: Stable at room temperature

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Carbon monoxide and carbon dioxide.

HAZARDOUS POLYMERIZATION: May polymerize under high temperature or in contact with strong oxidants and free radicals generators.
INCOMPATIBILITY:

MATERIALS TO AVOID: Oxidizers, peroxides, acids, bases and free radical generators.

Section 11 - Toxicological Information

<table>
<thead>
<tr>
<th>EFFECTS</th>
<th>VALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACUTE EYE EFFECTS</td>
<td>N/E</td>
</tr>
<tr>
<td>ACUTE DERMAL EFFECTS</td>
<td>LD50 (rabbit) 2300-7500 mg/kg</td>
</tr>
<tr>
<td>ACUTE INHALATION EFFECTS</td>
<td>LC50 (rat) 3680-4490 ppm</td>
</tr>
<tr>
<td>ACUTE ORAL EFFECTS</td>
<td>Oral LD50 (rat) 2900-3700 mg/kg</td>
</tr>
</tbody>
</table>

Section 12 - Ecological Information

Vinyl Acetate exhibits slightly acute toxicity to aquatic species. The 24-, 48- and 96 hr. LC50 values for various fish species (bluegill sunfish, fathead minnows, guppies, goldfish, carp, golden orfe) are in the 14-44 ppm range. The 24 hr. EC50 for the water flea is 52 ppm and for brine shrimp is 45 ppm. In the alga Scenedesmus quadricauda, cell multiplication was inhibited after 8 days exposure to 370 ppm.

Section 13 - Disposal Considerations

WASTE DISPOSAL METHOD: If reclamation is not possible, dispose of material in accordance with all Federal, State and Local regulations. DO NOT HEAT OR CUT THE EMPTY CONTAINERS WITH ELECTRIC OR GAS TORCH.

Section 14 - Transport Information

DOT TRANSPORTATION DATA:

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>VALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>PROPER SHIPPING NAME</td>
<td>Vinyl Acetate, inhibited</td>
</tr>
<tr>
<td>HAZARD CLASS</td>
<td>3</td>
</tr>
<tr>
<td>IDENTIFICATION NUMBER</td>
<td>UN1301</td>
</tr>
<tr>
<td>PACKING GROUP</td>
<td>PG II</td>
</tr>
<tr>
<td>LABEL</td>
<td>Flammable Liquid</td>
</tr>
<tr>
<td>SPECIAL PROVISIONS</td>
<td>N/A</td>
</tr>
</tbody>
</table>
CERCLA REPORTABLE QUANTITY:  Not reportable at the size we sell under 40 CFR Part 302.4

RCRA STATUS:  Meets the requirements for the Characteristic of Ignitability and has an EPA Hazardous Waste Code of D001.

SARA TITLE III STATUS:
SECTION 311/312:  Hazard Classifications: Immediate (acute), Fire
SECTION 313:  This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Wt.%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vinyl Acetate</td>
<td>108-05-4</td>
</tr>
</tbody>
</table>

TSCA
This product or its components are listed in or exempt from the TSCA inventory requirements. This product contains the following non-proprietary substances subject to export notification under Section 12(b) of TSCA:

None

State Regulations

New Jersey
This product contains the following non-hazardous components subject to disclosure under New Jersey Right-To-Know legislation:

None

Pennsylvania
This product contains the following non-hazardous components subject to disclosure under Pennsylvania Right-To-Know legislation:

None

Massachusetts
This product contains the following substances known to the Massachusetts Substance List

Vinyl Acetate  CAS No.  108-05-4

California (Proposition 65)
This product contains the following substances known to the State of California to cause cancer:

None

This product contains the following substances known to the State of California to cause adverse reproductive effects:
None

International Regulations

Summary of International Chemical Inventory Status

- Canada: On inventory
- Europe: On inventory
- Japan: On inventory
- South Korea: On inventory
- Australia: On inventory

Section 16 - Other Information

Ratings Key: 4 = Highest hazard, 0 = Lowest hazard

ADDITIONAL MANUFACTURER WARNINGS:

- Store only in closed, properly labeled containers.
- Do not use cutting or welding torches on drums which contained this product unless they have been properly cleaned and purged.
- Use only with adequate ventilation.
- Do not eat, drink or smoke in work areas. Wash hands with soap and water prior to eating or using toilet facilities and at the end of the work shift. Launder contaminated clothing prior to reuse.

OTHER PRECAUTIONS AND COMMENTS: N/E

PREVIOUS REVISION DATE: N/E

N/A = Not Applicable
N/AV= Not available
N/D = Not Determined
N/E = Not Established
S = Suspected
ST = Short Term Exposure Limit

Information contained herein is correct and accurate to the best of Monomer-Polymer & Dajac Laboratories knowledge and pertains only to materials purchased from Monomer-Polymer and Dajac Labs. Monomer-Polymer & Dajac Labs makes no warranty, oral or written, expressed or implied, of merchantability or fitness for a particular purpose regarding this product or its use. Purchaser assumes all risks of use, application, and handling.
**** END MSDS ****