

**MATERIAL SAFETY DATA SHEET**

Mule Hide Products Co., Inc.  
 P.O. Box 1057  
 Beloit, WI 53512-1057  
 800-786-1492

Revised: April 2009

MSDS SHEET EPDM-020

**SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

|                        |  |                 |  |
|------------------------|--|-----------------|--|
| <b>Product Name</b>    | Mule-Hide Acrylic Water Base Bonding Adhesive  | <b>Supplier</b> | Mule-Hide Products Co., Inc.                           |
| <b>Chemical Name</b>   | Mixture  | <b>Address</b>  | P.O. Box 1057  |
| <b>Manufacturer</b>    | Henkel Corporation   |                 | Beloit, WI 53512-1057                                  |
| <b>Address</b>         | 9 Furman Hall Court<br>Greenville, SC 29609  | <b>Phone</b>    | 608-365-3111   |
| <b>Phone</b>           | 864-232-3893   | <b>Internet</b> | <a href="http://www.mulehide.com">www.mulehide.com</a> |
| <b>Internet</b>        | <a href="http://www.henkel.com">www.henkel.com</a>   |                 |  |
| <b>Emergency Phone</b> | 800-424-9300 Chemtrec  |                 |  |
| <b>MSDS Number</b>     | EPDM-020   |                 |  |
| <b>Effective Date</b>  | October 16, 2001   |                 |  |
| <b>NFPA Rating</b>     | Health 1, Flammability 0, Reactivity 0<br>0-least, 1-slight, 2-moderate, 3-high, 4-extreme |                 |  |

**SECTION 2 - PRODUCT INGREDIENTS**

| Ingredient Name                | Common Name | CAS Number  | % Weight | Exposure Limit (OSHA)     | Exposure Limit (ACGIH)    |
|--------------------------------|-------------|-------------|----------|---------------------------|---------------------------|
| Vinyl Acetate*                 |             | 108-05-4    | < 0.3    | TWA 10 ppm<br>STEL 20 ppm | TWA 10 ppm<br>STEL 10 ppm |
| Dispersion Stabilizer System** |             | Proprietary | N/R      | N/D                       | N/D                       |
|                                |             |             |          |                           |                           |
|                                |             |             |          |                           |                           |

NOTES:  
 This product contains the following components subject to the reporting requirements of Sara Title III Section 313 and 40 CFR Part 372 in quantities greater than the "de minimis" level: VINYL ACETATE.  
 LEGEND:  
 \*Vinyl acetate has been listed as a possible human carcinogen by IARC. The ACGIH has designated vinyl acetate as an "A3-Animal Carcinogen" (see Section VI). NIOSH recommends a 4-PPM 15-min TWA ceiling limit.  
 \*\*Supplier has withheld the chemical name (s) and CAS number (s).

**SECTION 3 - PHYSICAL/CHEMICAL DATA**

| Properties                  | Unit                  | Data                            |
|-----------------------------|-----------------------|---------------------------------|
| Appearance                  | N/A                   | White Emulsion Liquid           |
| Boiling point               | (Deg. F)              | 212*                            |
| Evaporation Rate            | (N-Butyl Acetate = 1) | 0.2*                            |
| Flash Point                 | deg F                 | N/A                             |
| Melting Point               | (Deg. c~)             | N/A                             |
| Odor                        | N/A                   | N/A                             |
| Ph (undiluted product)      | N/A                   | 6.0-7.0                         |
| Saturation in air           | %                     | N/A                             |
| Solids Content              | N/A                   | N/A                             |
| Specific gravity            | g/cc                  | 8.45 lbs/gal                    |
| Vapor Density               | Air = 1               | 0.62*                           |
| Vapor Pressure              | (MM HG § 68°F)        | 17*                             |
| Viscosity                   | cP                    | N/A                             |
| VOC                         | g/liter               | N/A                             |
| Volatility                  | %                     | 40 (water)                      |
| Water solubility            | %                     | Not soluble - water dispersible |
| *Values for water component |                       |                                 |

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### SECTION 4 - FIRE AND EXPLOSION DATA

#### **Flammability Properties**

|                                    |     |
|------------------------------------|-----|
| Flashpoint                         | N/A |
| Lower Flammable Limit (STP in Air) | N/A |
| Upper Flammable Limit (STP in Air) | N/A |

#### **Fire Extinguishing Media**

Liquid material is non-flammable. Water, foam, carbon dioxide and dry chemical are suitable for use on dry solids fire.

#### **Personal Protection for Fire Fighting**

Wear self-contained breathing apparatus when fighting fires. Water may be used to keep fire-exposed containers cool until fire is out.

#### **Unusual Fire and Explosion Hazards:**

Product will not burn but may spatter if the temperature exceeds the boiling point of water.

The solids portion of product is combustible and will decompose during combustion or under pyrolysis conditions giving off toxic fumes.

Closed containers may rupture if exposed to extreme heat or fire.

### SECTION 5 - HAZARD IDENTIFICATION

#### **Toxicity:**

Follow all federal, state, and local regulations.

#### **Routes and Effects of Exposure:**

##### **Eyes**

Direct eye contact with the liquid can cause irritation. Eye effects may be accentuated if material is not promptly removed.

##### **Skin**

Contact can cause slight irritation and may cause skin sensitization or allergenic reaction in people with predisposition.

##### **Inhalation**

Excessive inhalation of vapors or mists can cause nasal and respiratory irritation.

Respiratory irritation from vinyl acetate may occur above 4 PPM in sensitive individuals and generally above 20 PPM. Exposure to mice and rats for 6 hours / day, 5 days / week over a two year period resulted in marked irritation to the respiratory tract at 600 PPM, slight irritation to the respiratory tract at 200 PPM, and no treatment related effects at 50 PPM.

##### **Ingestion**

May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

#### **Effects of Chronic Overexposure:**

This product contains a small amount of vinyl acetate (Monomer). An inhalation study using laboratory animals exposed to high concentrations (600 PPM, 200 PPM) of vinyl acetate for 6 hours per day, 5 days per week over a two year period has shown that such exposure resulted in the development of nasal tumors. Some of these tumors were shown to be carcinomas. There should be minimal risk when this product is used with ventilation adequate to maintain the atmospheric concentrations of vinyl acetate below the OSHA permissible and ACGIH recommended exposure limits.

Vinyl acetate has been listed by IARC (International Agency for Research on Cancer) as a possible human carcinogen (group 2B). Vinyl acetate is not listed by OSHA or NTP (National Toxicology Program) as a potential or proven human carcinogen. The ACGIH has designated vinyl acetate as an "A3-Animal Carcinogen". This designation refers to an agent, which is carcinogenic in experimental animals at relatively high dose, by route (s) of administration, at site (s), of histological type (s), or by mechanism (s) that are not considered relevant to worker exposure. Available epidemiological studies do not confirm and increased risk of cancer in exposed humans. Available evidence suggests that vinyl acetate is not likely to cause cancer in humans except under uncommon or unlikely routes or levels of exposure.

May provoke asthmatic response in persons with asthma who are sensitive to airway irritants.

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### SECTION 6 - FIRST AID PROCEDURES

#### **Inhalation**

If affected, remove individual to fresh air. If breathing is difficult, administer oxygen. Get medical attention.

#### **Skin Contact**

Remove contaminated clothing. Thoroughly wash exposed skin areas with soap and water. Launder contaminated clothing before re-use. See a physician if irritation or injury develops.

#### **Ingestion**

If material has been confined to mouth, rinse out mouth with water. Do not swallow water used for rinsing purposes. If material has been swallowed, immediately drink two glasses of water. Never give anything by mouth to an unconscious person. Do not induce vomiting. Get medical attention immediately.

#### **Eye Contact**

Flush with large quantities of water, lifting upper and lower eyelids occasionally. Get medical attention.

### SECTION 7 - STABILITY/REACTIVITY DATA

#### **Stability**

Stable under normal conditions.

#### **Conditions to Avoid**

Coagulation may occur following freezing-thawing, boiling, or the addition of chemicals.

#### **Materials to Avoid**

Avoid contact with water sensitive materials and strong oxidizers.

#### **Hazardous Combustion and Decomposition Products**

Carbon monoxide, carbon dioxide, acrid (choking) smoke and fumes, acetic acid, acrolein, acetaldehyde, crotonaldehyde, acetone, other unidentified organic compounds and toxic substances.

### SECTION 8 - HANDLING, USE, AND DISPOSAL

#### **Procedures for Spills/Leaks**

Wear appropriate skin and eye protection during cleanup. Use respiratory protection if needed.

**Small Spills:** Absorb liquid on paper, rags, vermiculite, floor absorbent or other absorbent material and transfer to appropriately marked container.

**Large Spills:** Persons not wearing protective equipment should be excluded from area of spill until clean up has been completed. Stop spill at source, dike area of spill to prevent spreading, pump liquid to salvage container. Remaining liquid may be taken up on sand, clay, earth, floor absorbent or other absorbent material and shoveled into containers. Prevent run-off to sewers, streams or other bodies of water. If run-off occurs, notify proper authorities as required, that a spill has occurred.

#### **Storage and Handling**

Handle with reasonable care. Keep product containers cool, dry and away from sources of ignition. Use and store this product with adequate ventilation. Avoid breathing spray mist. Avoid prolonged or repeated breathing of vapors. Avoid eye contact and prolonged or repeated skin contact. Keep product containers tightly closed when not in use. Minimize contact with air to prevent inoculation with microorganisms, which can cause decomposition and moldy over-growth. When opening containers, remove top slowly to relieve any pressure build-up. Do not allow product to freeze. D Practice safe working procedures and good personal hygiene.

Use protective equipment when necessary, wash thoroughly after handling and before eating, drinking, and smoking or using toilet facilities. Do not transfer product to unmarked container. For industrial use only.

This product contains a small amount of Residual Vinyl Acetate (Monomer), vapors of which will accumulate in the unvented or poorly ventilated headspace above stored product. Residual monomer vapors are liberated during open handling, hot processing, specific applications, and drying processes. Increased monomer concentrations are also likely to occur in the headspace of drums, storage and waste material containers, and near the product surface in general. Drums should be opened in a well-ventilated space. Thermal processing equipment should be ventilated to control gasses and fumes given off during processing. Environmental controls should be sufficient to ensure that airborne levels of monomer vapors do not approach or exceed the OSHA permissible or ACGIH recommended exposure limits.

Product may corrode, degrade, or otherwise react with some metals and plastics upon prolonged contact. Consult with equipment supplier for proper construction materials for storage tanks, mixers, fittings, pipes and other storage and handling equipment.

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### SECTION 8 - HANDLING, USE, AND DISPOSAL (CONT)

Containers of this material may be hazardous when emptied, because emptied containers retain residues (vapors, liquids and/or solids), all hazard precautions given in this data sheet must be observed.

#### **Waste Disposal Method**

Dispose of material in accordance with applicable local, county, state and federal regulations. As produced, this material is a product and not a waste.

### SECTION 9 - EXPOSURE CONTROL/PERSONAL PROTECTION

#### **Eye**

Safety glasses, chemical goggles and/or face shields are recommended to safeguard against potential eye contact, irritation or injury.

#### **Ventilation**

General mechanical ventilation and/or local exhaust recommended.

Monomer vapors and/or other irritating and toxic vapors and fumes can be evolved when product is heated during processing operations (application, drying, curing), in such a case, use local exhaust ventilation at the point of monomer evolution of sufficient velocity to remove vapors and/or fumes.

#### **Respiratory**

Not normally required: However, if the product is heated during processing operations (application, drying, curing), or if the product is used in such a manner as to generate particulates (fume, dust, mist), a NIOSH approved respirator is advised in the absence of proper environmental control (see your safety equipment supplier), engineering or administrative controls should be implemented to reduce exposure.

#### **Protective Clothing**

The use of impermeable gloves is advised to prevent skin irritation in sensitive individuals (see your safety equipment supplier).

For operations where contact can occur, coveralls, apron and rubber foot covering are recommended. A safety shower and eyewash facility should be available.

### SECTION 10 - TRANSPORTATION

#### **Shipping Name**

#### **Labeling**

#### **Labeling Required**

#### **Hazard Class**

### SECTION 11 - MISCELLANEOUS INFORMATION

#### **Other Health Information**

Any proposed used of this product in elevated-temperature processes or in spray applications should be thoroughly evaluated to assure that safe operating conditions are established and maintained.

#### **Additional Information**

Contact Mule-Hide at 608-365-3111

#### **MSDS Revision Summary**

Revision Date        April 1, 2004  
Reason for Change    New format

#### **Disclaimer**

The responsibility to provide a safe workplace is with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and to develop work practices and procedures for a safe environment.

The information herein has been compiled from sources believed to be reliable, and is accurate to the best of our knowledge. However, Mule-Hide Products Co., Inc. cannot give any guarantees regarding information from other sources, and expressly does not make any warranties, nor assume any liability for its use.

This is the end of MSDS