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**SECTION 1: COMPANY AND PRODUCT IDENTIFICATION****Manufacturer:** Choice Brands Adhesives666 Redna Terrace  
Cincinnati, OH 45215**Emergency Contact Number:** 800-424-9300 (CHEMTREC)**Information Telephone Number:** 513-772-1234**Supplier:** Mule-Hide Products Co., Inc.1910 Prince Hall Drive  
Beloit, WI 53511**(800) 786-1492****Product Name:** Mule-Hide FR Adhesive**Product use:** Adhesive

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**SECTION 2: HAZARDS IDENTIFICATION****GHS Signal Word:** WARNING!Possible Eye Irritant  
Possible Skin Irritant

Safety Glasses



Gloves

**Emergency overview:** Contact with this material can cause irritation to the skin, eyes and mucous membranes**Potential health effects**

**Eyes** Direct eye contact with the product may cause irritation

**Skin** Prolonged or repeated contact with liquid product may cause irritations.

**Inhalation** Exposure to vapors in poorly ventilated areas may cause irritation of the nose, throat, And respiratory tract.

**Ingestion** Ingestion causes irritation of upper respiratory system and gastrointestinal disturbance. Do not ingest.

**Fire & explosion** This product will not ignite under normal situations but can be ignited in the extreme heat associated with a fire. In a fire situation, exposed containers may build up pressure and burst explosively spewing hot material. Irritating and potentially harmful vapors may be released in a fire or spill situation.

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**SECTION 3: COMPOSITION INFORMATION**

Component	CAS-No.	Concentration
Vinyl acetate	108-05-4	Less than 0.5%

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**SECTION 4: FIRST AID MEASURES****First aid procedures**

**Eye contact** If product contacts eye, flush with water for at least 15 minutes and seek medical attention immediately.

<b>Skin contact</b>	If product contacts skin, wash affected area with soap and water. Seek medical attention if irritation develops or persists. Launder contaminated clothing before reuse.
<b>Inhalation</b>	Move subject to fresh air in case of accidental inhalation of vapors or decomposition products. If symptoms persist, get medical attention promptly.
<b>Ingestion</b>	If ingested, get immediate medical attention. Do not induce vomiting unless instructed to do so by medical personnel. Never give anything by mouth to victim who is unconscious or is having convulsions.

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## **SECTION 5: FIRE FIGHTING MEASURES**

### **Hazardous combustion products**

Incomplete combustion can yield carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

### **Extinguishing media**

<b>Suitable extinguishing media</b>	Dry chemical, CO <sub>2</sub> , water spray or regular foam. Avoid using a direct stream of water.
<b>Fire fighting equipment/instructions</b>	Firefighters should wear full protective clothing including self contained breathing apparatus.
<b>Dust explosion hazard</b>	None Known
<b>Sensitivity to static discharge</b>	None Known
<b>Unusual fire &amp; explosion hazards</b>	There is the possibility of pressure buildup in closed containers when heated. Water spray may be used to cool the containers/
<b>Flash point</b>	Non flammable

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## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

<b>Emergency action</b>	Wear appropriate protective equipment and clothing during clean-up. Follow all Local, State, Federal and Provincial regulations for disposal.
<b>Containment procedures</b>	Isolate spill area. Stop discharge if safe to do so. Dike, if necessary, contain spill with inert absorbent. Collect and contain for salvage or disposal. Keep spilled product from contaminating soil or from entering sewers, watersheds or water streams.
<b>Reporting</b>	See Federal reporting requirements listed in Section 15. We recommend you contact local authorities to determine if there may be other local reporting requirements.

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## **SECTION 7: HANDLING & STORAGE**

For Commercial Use Only - Not Packaged or Labeled for Home Use!

<b>Handling</b>	Avoid contact with skin and eyes. Wash thoroughly after handling. Avoid breathing fumes if this product is used at high temperatures. Use this product with adequate ventilation.
<b>Storage</b>	Protect from freezing – product stability may be affected.
<b>Empty container precaution</b>	Attention! Follow label warnings even after container is emptied since empty containers may retain product residues. In storage, monomer vapors will migrate from the emulsion and establish an equilibrium between the headspace in the storage container and the liquid emulsion. Levels in excess of acceptable exposures can accumulate in non –vented headspaces above the emulsion. All procedures appropriate for a confined space entry should be completed prior to performing any work in a bulk storage tank. Do not reuse empty container without professional cleaning for food, clothing, or products for human or animal consumption, or where skin contact can occur.

## SECTION 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure Limit(s)** Exposure limits are listed below, if they exist

Component	Regulation	Type of Listing	Value
Vinyl Acetate monomer	ACGIH	TLV	15 ppm
	ACGIH	TWA	10 ppm
	OSHA	STEL	20 ppm

**Engineering controls** Ventilation should be sufficient to effectively remove and prevent buildup of any dusts or fumes that may be generated during handling or thermal processing.



Safety Glasses



Gloves

### Personal protective equipment

- Eye protection** Wear safety glasses to reduce the potential for eye contact. Chemical safety goggles are appropriate if splashing is likely. Have eye washes available where eye contact can occur.
- Skin and body Protection** Prevent prolonged or repeated contact by using rubber gloves and appropriate protective clothing. Launder contaminated clothing before reuse.
- Respiratory Protection** Not normally required. When fumes are generated and ventilation is not sufficient to effectively remove them, appropriate NIOSH/MSHA approved respiratory protection must be provided.
- General** Eye wash fountain and emergency showers are recommended.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Flash Point</b>	Not Applicable/ non flammable
<b>Upper Flammable Limit</b>	Not Determined
<b>Lower Flammable Limit</b>	Not Determined
<b>Autoignition Point</b>	Not Determined
<b>Explosion Data</b>	Material does not have explosive properties
<b>Vapor Pressure</b>	NA
<b>PH</b>	4.0 -7.0
<b>Specific Gravity</b>	1.20
<b>Bulk Density</b>	8.0 - 9.2 lbs/ gallon
<b>Water Solubility</b>	Miscible
<b>Percent Solid</b>	Approx. 60 - 65%
<b>Percent Volatile</b>	Approx. 35%
<b>% Volatile Organic Compounds</b>	Less than 0.60% by weight
<b>Vapor Density</b>	< 1 Air = 1
<b>Evaporation Rate</b>	< 1 Butyl Acetate = 1
<b>Odor</b>	Slight
<b>Appearance</b>	Pink Liquid
<b>Viscosity</b>	Approx 11000 cps @ 80F
<b>Odor Threshold</b>	Not Determined

**Boiling Point** 100°C, 212°F (Typical)  
**Pour Point Temperature** Not Determined  
**Melting / Freezing Point** ~ 0°C, ~ 32°F

*The above data are typical values and do not constitute a specification. Vapor pressure data are calculated unless otherwise noted*

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## **SECTION 10: STABILITY AND REACTIVITY**

### **Hazardous reactions/decompositions products**

Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

**Hazardous polymerization** Will not occur.  
**Conditions to avoid** Not established  
**Stability** Stable under normal conditions. This product may react with strong acids, bases and oxidizing agents.

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## **SECTION 11: TOXICOLOGICAL INFORMATION**

### **-ACUTE EXPOSURE-**

**Eye Irritation** May cause eye irritation.  
**Skin Irritation** Not expected to be a primary skin irritant. Repeated or prolonged skin contact may cause irritation. Pre-existing skin conditions may be aggravated by prolonged or repeated exposure.  
**Respiratory Irritation** Exposure to vapors in poorly ventilated areas may cause irritation of the nose, throat, and respiratory tract.  
**Dermal Toxicity** Not established  
**Inhalation Toxicity** Exposure to vapors in poorly ventilated areas may cause irritation of the nose, throat, and respiratory tract.  
**Oral Toxicity** Not established. Ingestion of this material may cause gastrointestinal irritations

### **-CHRONIC EXPOSURE-**

**Chronic Toxicity** No data available to indicate product or components present at greater than 1% are chronic health hazards.  
**Carcinogenicity** Vinyl acetate has been shown to cause cancer in tests with laboratory animals. Overexposure can increase risk. Overexposure should not occur under normal handling and use.  
**Mutagenicity** No data available to indicate product is mutagenic or genotoxic.  
**Reproductive Toxicity** No data available to indicate product may cause reproductive toxicity.  
**Teratogenicity** No data available to indicate product may cause birth defects.

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## **SECTION 12: ECOLOGICAL INFORMATION**

There is no data available for this product

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**SECTION 13: DISPOSAL CONSIDERATION**

**Environmental precautions:** CAUTION: keep spills and cleaning runoff out of municipal sewers and open bodies of water.

It is the obligation of each user of the product mentioned herein to determine and comply with the requirements of all applicable local, state and federal regulations.

**Waste disposal** Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

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**SECTION 14: TRANSPORT INFORMATION****DOT**

Not regulated as hazardous goods.

**IATA**

Not regulated as hazardous goods.

**IMDG**

Not regulated as hazardous goods.

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**SECTION 15: REGULATORY INFORMATION****Workplace Classification**

**OSHA:** This product is considered non-hazardous under the OSHA Hazard Communication Standard (29CFR1910.1200)

**WHMIS:** This product is not a “controlled product” under the Canadian Workplace Hazardous Materials Information System (WHMIS)

**SARA TITLE III: Section 311/312 Categorizations (40CFR370):**

This product is not a hazardous chemical under 29CFR 1910.1200, and therefore is not covered by Title III of SARA

**SARA TITLE III: Section 313 Information (40CFR372):**

This product does contain a chemical which is listed in Section 313 at or above de minimis concentrations.

Vinyl acetate	CAS # 108-05-4	Less than 0.5%
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**CERCLA Information (40CFR302.4):**

Releases of this material to air, land, or water are not reportable to the National Response Center under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or to state and local emergency planning committees under the Superfund Amendments and Reauthorization Act (SARA) Title III Section 304

**US. Toxic Substances Control Act (TSCA):**

All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

**State regulations** If this product contains any California Proposition 65 chemicals, they will be listed below. Unless a concentration is given, the chemicals listed below are present only in trace amounts (less than 0.1%)

Formaldehyde (CAS# 50-00-0)	Benzene (CAS# 71-43-2)
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SAFETY DATA SHEET  
MULE-HIDE FR ADHESIVE

SDS 10-2512

Methanol (CAS #67-56-1) 1,4-Dioxane (CAS# 123-91-1)  
Acetaldehyde (CAS #75-07-0) Ethylene Oxide (CAS# 75-21-8)

**Restriction of Hazardous Substances (RoHS)** The product(s) covered by this (M)SDS do not contain or are under the prescribed levels of prohibited substances listed under 2011/65/EU Hazardous Substances Restricted or Prohibited in Electrical Equipment, including lead (CAS # 7439-92-1), mercury (CAS # 7439-97-6), cadmium (CAS # 7440-43-9), hexavalent chromium (CAS # 7440-47-3), polybrominated biphenyls (PBB) and polybrominated diphenyl ethers (PBDE).

**International regulations** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and contains all the information required by the Controlled Products Regulations.

**REACH**

**Substances of Very High Concern (SVHC)**

The product(s) covered by this (M)SDS do not include a substances above a concentration of 0.1% weight by weight (w/w) in the Candidate List of Substances of Very High Concern (SVHC) for authorization published or proposed by ECHA on the following dates:

- October 28, 2008 - June 18, 2014
- August 31, 2009 - December 17, 2014
- January 13, 2010
- March 8, 2010
- June 18, 2010
- October 14, 2010
- December 15, 2010
- June 20, 2011
- December 19, 2011
- February 17, 2012
- June 18, 2012
- December 19, 2012
- June 20, 2013

Component	CAS #	Concentration
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<b>HMIS Ratings</b>	Health:	1
	Flammability:	0
	Reactivity:	0
	Personal protection:	B

**SECTION 16: OTHER INFORMATION**

Issue date 10/2016 VER Primary

All statements, information and data presented herein are to the best of our knowledge and belief accurate and reliable as of the date compiled. However, no representation, warranty or guarantee expressed or implied, is made as to its accuracy, reliability or completeness. It is the user's responsibility to determine the suitability and completeness of such information for the customer's particular end use. We do not accept liability for any loss or damage that may occur from the use of this information.