

1. COMPANY AND PRODUCT IDENTIFICATION

Company: Choice Brands Adhesives
666 Redna Terrace
Cincinnati, OH 45215

Supplier: Mule-Hide Products Co., Inc.
1910 Prince Hall Drive
Beloit, WI 53511
(800) 786-1492

Emergency Contact Number: 800-424-9300 (CHEMTREC)

Information Telephone Number: 513-772-1234

Product Name: Mule-Hide FR Adhesive

Product use: Adhesive
General description: Synthetic resin based product in water

2. HAZARDS IDENTIFICATION

GHS Signal Word: WARNING!



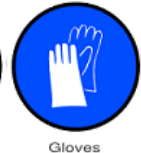
Suspected of Causing Cancer



Possible Eye Irritant
Possible Skin Irritant



Safety Glasses



Gloves

Emergency overview: Suspected of causing cancer.

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 and dermatitis.

Inhalation Exposure to vapors in poorly ventilated areas may cause irritation of nose, throat And respiratory tract, nausea, vomiting, headache, dizziness, fatigue, and Unconsciousness.

Ingestion Ingestion causes irritation of upper respiratory system and gastrointestinal disturbance. May cause nausea, vomiting. 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.

3. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

Component	CAS-No.	Concentration
Vinyl Acetate	108-05-4	Less than 0.70%

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.

Skin contact	If product contacts skin, wash affected area with soap and water. Seek medical attention if irritation develops or persists. Launder contaminated clothing before reuse.
Inhalation	Move subject to fresh air in case of accidental inhalation of vapors or decomposition products. If symptoms persist, get medical attention promptly.
Ingestion	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.

5. FIRE FIGHTING MEASURES

Hazardous combustion products

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

Extinguishing media

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

6. ACCIDENTAL RELEASE MEASURES

Emergency action	Wear appropriate protective equipment and clothing during clean-up. Follow all Local, State, Federal and Provincial regulations for disposal.
Containment procedures	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.
Reporting	See Federal reporting requirements listed in Section 15. We recommend you contact local authorities to determine if there may be other local reporting requirements.

7. HANDLING AND STORAGE

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

Handling	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.
Storage	Protect from freezing – product stability may be affected.
Empty container precaution	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.

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.

9. PHYSICAL & CHEMICAL PROPERTIES

Flash Point	Not Applicable/ non flammable
Upper Flammable Limit	Not Determined
Lower Flammable Limit	Not Determined
Autoignition Point	Not Determined
Explosion Data	Material does not have explosive properties
Vapor Pressure	NA
PH	4.0 – 7.0
Specific Gravity	1.20
Bulk Density	8.0 – 9.2 lbs/ gallon
Water Solubility	Miscible
Percent Solid	Approx. 60 - 65%
Percent Volatile	Approx. 35%
% Volatile Organic Compounds	Less than 1.00% by weight
VOC g/L	Less than 25 g/L
Vapor Density	< 1 Air = 1
Evaporation Rate	< 1 Butyl Acetate = 1
Odor	Slight
Appearance	Pink Liquid
Viscosity	Approx. 11,000 cps. @ 80F
Odor Threshold	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

10. CHEMICAL STABILITY & REACTIVITY INFORMATION

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.

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 or dermatitis. 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, nausea, vomiting, drowsiness, dizziness, unconsciousness,
Dermal Toxicity	Not established
Inhalation Toxicity	Exposure to vapors in poorly ventilated areas may cause irritation of the nose, throat, and Respiratory tract, nausea, vomiting, drowsiness, dizziness, unconsciousness.
Oral Toxicity	Not established. Ingestion of this material may cause gastrointestinal irritations, nausea, vomiting.

-CHRONIC EXPOSURE-

Chronic Toxicity	No data available to indicate product is a chronic health hazard.
Carcinogenicity	Vinyl acetate has been shown to cause tumors in laboratory tests with animals and is categorized by the IARC as a group 2 carcinogen, and may probably be carcinogenic to humans. Overexposure may increase cancer risk.
Mutagenicity	No data available to indicate product is mutagenic or genotoxic.
Reproductive Toxicity	No data available to indicate product may cause reproductive toxicity.
Tetratogenicity	No data available to indicate product may cause birth defects.

12. ECOLOGICAL INFORMATION

There is no data available for this product

13. DISPOSAL CONSIDERATIONS

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.

14. TRANSPORT INFORMATION

DOT

Not regulated as hazardous goods.

IATA

Not regulated as hazardous goods.

IMDG

Not regulated as hazardous goods.

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 0.7%

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)
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 does not include any of the 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 - June 16, 2015
- March 8, 2010 - December 16, 2015
- June 18, 2010 - June 20, 2016
- October 14, 2010 - January 12, 2017
- December 15, 2010 - July 7, 2017
- June 20, 2011
- December 19, 2011
- February 17, 2012
- June 18, 2012
- December 19, 2012
- June 20, 2013

HMIS Ratings

Health:	1
Flammability:	1
Reactivity:	0
Personal protection:	B

16. OTHER INFORMATION

Issue date 012318.1

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.