

**MATERIAL SAFETY DATA SHEET**

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

Date Prepared: 1/01/2007  
 Date Printed: 101/2007

MSDS SHEET ISO-001

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

**Product Name** Mule-Hide Poly Iso 2™ (flat or tapered) Insulation  
**Chemical Name** Mixture  
**Manufacturer** Mule-Hide Products Co., Inc.  
**Address** P.O. Box 1057  
 Beloit, WI 53512-1057  
**Phone** 608-365-3111  
**Internet** [www.mulehide.com](http://www.mulehide.com)  
**Emergency Phone** 800-424-9300 Chemtrec  
**MSDS Number** ISO-001  
**Effective Date** April 1, 2003

**SECTION 2 - PRODUCT INGREDIENTS**

Ingredient Name	Common Name	CAS Number	Exposure Limit (OSHA)	Exposure Limit (OSHA)	Other Recommended (Source)
Polyisocyanurate Foam (as nuisance dust)	Same	None	(15 mg/M <sup>3</sup> )	(10 mg/M <sup>3</sup> )	(None)
Fibrous Glass (respirable nuisance dust)	Fiberglass	65997-17-3	(5 mg/M <sup>3</sup> )	(10 mg/M <sup>3</sup> )	(3x10 <sup>6</sup> fiber/M <sup>3</sup> NIOSH)
Carbon (respirable nuisance dust)	Carbon Black	133-86-4	(3.5 mg/M <sup>3</sup> )	(3.5 mg/M <sup>3</sup> )	(None)

**LEGEND:**

(+) This chemical is subject to the reporting requirements of SARA Title III Section 313 and 40 CFR Part 372, and is potentially at the maximum concentration listed.

(++) SARA Title III Section 302 Extremely Hazardous Substance

(+++)  
 CERCLA Hazardous Substance

{00000-00-0} Chemical Abstracts Services Registry Number

If no marks appear with a listed ingredient, then the ingredient is not included in any of the regulatory categories appearing in the Legend of this Material Safety Data Sheet.

**SECTION 3 - PHYSICAL/CHEMICAL DATA**

Properties	Unit	Data
Appearance		White or cream colored foam with a black fiberglass facing
Boiling point	(Deg. c/mm)	N/A
Evaporation Rate	(nBuAc=1)	N/A
Flash Point	deg F	N/A
Melting Point	(Deg. c~)	N/A
Odor	N/A	No odor
Ph (undiluted product)	N/A	N/A
Saturation in air	%	N/A
Solids Content	N/A	N/A
Specific gravity	g/cc	Not determined
Vapor Density	Air = 1	N/A
Vapor Pressure	(mm/deg. C)	N/A
Viscosity	cP	N/A
VOC	g/liter	N/A
Volatility	%	N/A
Water solubility	%	Insoluble

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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
Auto-Ignition Temperature	N/A

#### Fire Extinguishing Media

In case of fire, use dry chemical, carbon dioxide, foam or water fog.

#### Personal Protection for Fire Fighting

Fire fighters should wear self-contained breathing apparatus.

#### Unusual Fire and Explosion Hazards

This product will burn and should not be left exposed. Under certain fire conditions, combustible gases can be generated creating rapidly spreading, high intensity flames and dense, black smoke.

### SECTION 5 - HAZARD IDENTIFICATION

#### Toxicity:

Follow all federal, state, and local regulations.

#### Routes and Effects of Exposure:

Inhalation, skin and eyes

#### Eyes Contact – Fibrous Glass and Polyisocyanurate Foam

Acute: Mechanical irritation

Chronic: None known

#### Skin Contact – Fibrous Glass and Polyisocyanurate Foam

Acute: Transient mechanical irritation

Chronic: None known

#### Inhalation – Fibrous Glass

Acute: Mechanical irritation of the mouth, nose and throat.

Chronic: No chronic health effects are known to be associated with exposure to continuous filament fiberglass. Results from epidemiological studies have not shown any increase in respiratory cancer. The International Agency for Research on Cancer (IARC) has classified continuous filament fiberglass "Not Classifiable as to Carcinogenicity to Humans" (Group 3; i.e., IARC-3)

#### Inhalation – Polyisocyanurate Foam

Acute: Dust will cause respiratory tract irritation.

Chronic: There is no evidence that polyisocyanurate foam dust causes disease in humans.

### SECTION 6 - FIRST AID PROCEDURES

#### Inhalation

None required.

#### Skin Contact

Wash with soap and cool running water.

#### Eye Contact

Flush with running water for at least 15 minutes.

### SECTION 7 - STABILITY/REACTIVITY DATA

#### Stability

Material is stable under normal conditions.

#### Conditions to Avoid

Avoid exposure to Acetone, methyl ethyl ketone, tetrahydrofuran, chlorine, chloroform, hydrogen peroxide, ethylene dichloride, dimethyl sulfoxide and dimethyl formamide. Avoid ignition sources.

#### Hazardous Decomposition Products

Primarily CO, CO<sub>2</sub>. Some HCN possible under certain conditions.

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

**Procedures for Spills/Leaks**  
N/A

**Handling and Storage**  
No special procedures required

**Waste Disposal Method**  
Dispose of in accordance with all local, state, and federal regulations. The primary method of disposal is in a municipal or industrial landfill.

**EPA Hazardous Waste Number**  
N/A – This material is not regulated under the "RCRA" hazardous waste regulations.

### SECTION 9 - EXPOSURE CONTROL/PERSONAL PROTECTION

**Eye**  
Safety glasses with side shields or goggles recommended.

**Ventilation**  
Ambient

**Respiratory**  
If irritation occurs or exposure limit is exceeded, use a respirator such as 3M Model 9900, Model 8710, or equivalent for protection against nuisance dust.

**Protective Clothing**  
If excessive dust is generated during cutting operation, wear long sleeved, loose fitting clothing, long pants and gloves, to reduce irritation.

### SECTION 10 - TRANSPORTATION

**Shipping Name**  
Not regulated by DOT

**Labeling**  
N/A

**Labeling Required**  
None

**Hazard Class**  
N/A

### SECTION 11 - MISCELLANEOUS INFORMATION

**Additional Information**  
Contact Mule-Hide at 608-365-3111

**MSDS Revision Summary**  
Revision Date        January 2005  
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