

MATERIAL SAFETY DATA SHEET

Business Hours: 8:00 a.m - 5:00 p.m. Mule-Hide Products Co., Inc. For Transportation Emergencies Call  
 Emergency Telephone Number: 800-786-1492 P.O. Box 1057 Chemtrec: 800/424-9300

Beloit, WI 53512

MSDS Date: 01/02/07 MSDS Rev #002 Supercedes All Previous Publications Page 1 of 2

SECTION I

PRODUCT NAME AND SYNONYMS: MULE-HIDE POLY ISO 1 PRODUCT USE: Insulation Board  
 CHEMICAL FAMILY: Polyisocyanurate Foam FORMULA: Not available

SECTION II(A) HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENT	CAS NUMBER	%	PEL (ppm)			SKIN DESIG- (SPECIFY SPECIES&ROUTE)	LD <sub>50</sub> OF INGREDIENT (mg/kg)	LC <sub>50</sub> OF INGREDIENT (ppm/4H)
			TWA	STEL	CEILING			
Polyisocyanurate Foam	None	<60	None	None	None	N/A	Not Available	Not Available
Proprietary Hydrocarbons								
Pentane	109-66-0	<10	600	600	None	N/A	Not Available	Not Available
Isopentane	78-78-4	<10	600	600	None	N/A	Not Available	Not Available
Cyclopentane	287-92-3	<10	600	600	None	N/A	Not Available	Not Available
Fibrous Glass	65997-17-3	<4	10	None	None	N/A	Not Available	Not Available
Cellulose	None	<26	10	None	None	N/A	Not Applicable	Not Applicable

U = Unknown N/A = Not Applicable H = Hour

SECTION II(B) ADDITIONAL INGREDIENTS (>3%)

Ingredients: None

SECTION III PHYSICAL DATA

Physical State	Odor And Appearance	VOC (grams/liter)	Odor Threshold (ppm)	Vapor Pressure (mm Hg)
Solid	White or Cream Colored foam plastic - no odor with cellulose/glass fiber facings	N/A	N/A	N/A
Vapor Density (AIR=1)	Evaporation Rate (nBuAc=1)	Boiling Point (°C)	Freezing Point (°C)	pH
N/A	N/A	N/A	N/A	N/A
Specific Gravity	Coeff Water/Oil Dist	Solubility In Water	Volatiles By Wt (%)	Corrosivity
Nominal 2.0 lb/ft <sup>3</sup>	N/A	Not Soluble	N/A	N/A

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flammability: Yes X No - If Yes, Under Which Conditions? Can be ignited by open flame.  
 Division 4

Flashpoint (°C) & Method	Autoignition Temp (°C)	Lower Flammable Limit (% By Vol)	Upper Flammable Limit (% By Vol)
N/A	Not Available	N/A	N/A

Hazardous Combustion Products: Carbon monoxide, carbon dioxide.

EXPLOSION DATA:

Sensitivity To Impact: There is no evidence to show that this product is sensitive to physical shock.  
 Sensitivity To Static Discharge: There is no evidence to show that this product is sensitive to static discharge.  
 Extinguishing Media: In case of fire, use dry chemicals, carbon dioxide, foam, or water fog.

Special Fire Fighting Procedures: Fire fighters should wear self-contained breathing apparatus.

Unusual Fire And Explosion Hazards: Product will burn on exposure to open flame. Keep away from all open flames, welders torches, etc.

SECTION V - REACTIVITY DATA

Chemical Stability: Stable Hazardous Polymerization: Will not occur.  
 Conditions To Avoid: Sparks, flames and ignition sources.  
 Incompatibility (Materials To Avoid) Acetone, MEK, THF, chlorine, chloroform, hydrogen peroxide, ethylene dichloride, dimethyl sulfide, and dimethyl formamide.  
 Hazardous Decomposition Products: Toxic smoke or vapors, such as carbon monoxide or carbon dioxide, may be released in a fire.

=====**SECTION VI - TOXICOLOGICAL PROPERTIES**=====

Route Of Entry: Skin Contact X Skin Absorption Eye Contact X Inhalation X Ingestion

Effects Of Acute Exposure To Product: Temporary mechanical irritant to skin, eyes, and upper respiratory system (especially when material is fabricated or cut).

Effects Of Chronic Exposure: Possible allergic reactions of respiratory system and skin with repeated exposure to this product.

Exposure Limits	Irritancy Of Product	Sensitization To Product	Carcinogenicity	
N/A	N/A	Possible respiratory and skin	No evidence	
Teratogenicity	Reproductive Toxicity	Mutagenicity	Synergistic Products	Tumorigenicity
No evidence	No evidence	No evidence	None known	No evidence

=====**SECTION VII - PREVENTIVE MEASURES**=====

PERSONAL PROTECTIVE EQUIPMENT:

- Gloves: Protective
- Respirator: OSHA approved respirator or dust mask, especially when cutting.
- Eye: Safety glasses or goggles, especially when cutting.
- Footwear: Protective
- Clothing: Protective
- Other: None

Engineering Controls (EG., Ventilation, Enclosed Process): Sufficient ventilation (when cutting) to keep exposure to nuisance dust below 5 mg/m<sup>3</sup>.

Leak Or Spill Procedure: Normal housekeeping.

Waste Disposal: Dispose of in accordance with all local, state, and federal regulations.

Handling Procedures And Equipment: No special equipment required.

Storage Requirements: Protect from moisture.

Special Shipping Information: None.

=====**SECTION VIII - FIRST AID MEASURES**=====

Specific Measures:

- Inhalation: - Remove to fresh air.
- Eyes: - Flush with water for 15 minutes or until irritation ceases.
- Skin: - Wash with soap and water.  
Persons who develop symptoms of allergy, irritation, respiratory problems, or puffiness around the eyes should be examined by a physician as soon as possible.

Respiratory symptoms and dermatitis associated with pre-existing medical conditions may be aggravated by exposure to this material.

=====**SECTION IX - ADDITIONAL REGULATORY INFORMATION**=====

=====**SECTION X - PREPARATION INFORMATION**=====

Prepared By: Mule-Hide Products Co. Inc. Customer Service Dept.

Form Eff Date: 1/02/07 Form Rev #002  
Reason For Change: New Data Sheet