

**MATERIAL SAFETY DATA SHEET**

Mule Hide Products Co., Inc.  
P.O. Box 1057  
Beloit, WI 53511  
800-786-1492

Date Revised: 10/14/2008  
Date Printed: 10/14/2008

MSDS SHEET SA-APP01

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

**Product Name** Modified Asphalt Roofing Membrane  
**Chemical Name** Mixture

**Trade Name** **SA-APP Cap Sheet (granules), SA-APP Cap Sheet (FR), SA-APP KoolCap®**

**Manufacturer Address** Mule-Hide Products Co., Inc.  
P.O. Box 1057  
Beloit, WI 53511  
608-365-3111

**Phone**  
**Internet** [www.mulehide.com](http://www.mulehide.com)

**Emergency Phone** 800-424-9300 Chemtrec  
**MSDS Number** SA-APP01  
**Effective Date** November 1, 2002  
**NFPA Rating** Health 1, Reactivity 1, Flammability 0  
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)
Petroleum Asphalt	Asphalt	8052-42-4	38.0 - 55.2	5 mg/m3 PEL	5 mg/m3 TLV (as fume)
Calcium Carbonate	Limestone	1317-65-3	4.3 - 23.8	5 mg/m3 PEL (Respirable) 15 mg/m3 PEL (Total)	3 mg/m3 TLV (Respirable) 10 mg/m3 TLV (Total)
Calcium Borate	Colemanite	None assigned	0 - 17.6	Not established	Not established
Polyethylene	Polyethylene	9002-88-4	0 - 1.3	5 mg/m3 PEL (Respirable) 15 mg/m3 PEL (Total)	3 mg/m3 TLV (Respirable) 10 mg/m3 TLV (Total)
Polypropylene	Polypropylene	9003-07-0	0 - 3.9	Not Established	Not Established
Ethylene Propylene Copolymer	Copolymer	9010-79-1	0 - 3.0	5 mg/m3 PEL (Respirable) 15 mg/m3 PEL (Total)	10 mg/m3 TLV (Total)
Styrene Butadiene Styrene	SBS Rubber	9003-55-8	1.8 - 7.1	Not established	Not established
Styrene Isoprene Styrene	SIS Rubber	25038-32-8	1.8 - 2.7	Not established	Not established
Petroleum Hydrocarbon Resin	Resin	68527-25-3	5.0 - 7.6	Not established	Not established
Non-woven Polyester	Polyester mat	None assigned	0 - 6.0	Not established	Not established
Crushed Mineral	Roofing granules	None assigned	0 - 28.0	Not established	Not established

**SECTION III - PHYSICAL/CHEMICAL DATA**

Properties	Unit	Data
Appearance	N/A	Black roll
Boiling point	deg F	>650
Evaporation Rate	N/A	N/A
Flash Point	deg F	>430
Melting Point	deg F	>200
Odor	N/A	Mild asphalt/petroleum odor
Ph (undiluted product)	N/A	N/A
Saturation in air	%	N/A
Solids Content	N/A	N/A
Specific gravity	g/cc	1.02 - 1.30
Vapor Density	Air = 1	N/A
Vapor Pressure	N/A	N/A
Viscosity	cP	N/A
VOC	g/liter	N/A
Volatility	%	< 0.1
Water solubility	%	< 0.1

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### SECTION 4 - FIRE AND EXPLOSION DATA

#### **Flammability Properties**

Flashpoint >430 deg F (ASTM D92)  
Lower Explosive Limit Undetermined  
Upper Explosive Limit Undetermined

#### **Recommended Extinguishing media**

Dry chemical, foam, water fog, CO2

#### **Unusual Fire or Explosion Hazards**

Burning will produce black smoke

#### **Special Fire Fighting Procedures**

Wear self-contained breathing apparatus

### SECTION 5 - HAZARD IDENTIFICATION

#### **Acute Health Effects**

Irritations of eye, nose, throat, and skin

#### **Chronic Health Effects**

Insufficient evidence of cancer induced by exposure to asphalt fumes. The International Agency for Research on Cancer (IARC) considered Crystalline Silica as a human carcinogen. Prolonged exposure to Crystalline Silica containing dust can lead to Silicosis. Continuous filament glass fibers are not classified as Carcinogens. However no significant health hazards are likely to occur due to the product form and nature of use.

Upper respiratory system

#### **Medical Conditions, Which May Be Aggravated**

Pre-existing respiratory conditions

#### **Signs/Symptoms of Overexposure**

Inhalation	Headache, nausea, coughing, irritation of the upper respiratory system
Skin Contact	Burns caused by contact with hot material
Skin absorption	Not applicable
Ingestion	Not intended to be ingested
Eye Contact	Irritation/ redness may occur

### SECTION 6 - FIRST AID PROCEDURES

#### **Inhalation**

Remove affected person to fresh air

#### **Skin Contact**

Rinse with cool water

#### **Skin Absorption**

Not applicable

#### **Ingestion**

Do not induce vomiting. Treat symptomatically.

#### **Eye Contact**

Flush with copious quantities of water. Consult a physician if irritation persists.

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### SECTION 7 - STABILITY/REACTIVITY DATA

#### **Summary**

Material is stable. Hazardous polymerization will not occur.

#### **Chemical Incompatibilities**

Strong oxidizing agents, strong acids and alkalines.

#### **Conditions to Avoid**

Strong oxidizing agents at elevated temperatures and uncontrolled fumes.

#### **Thermal Stability**

Stable

### SECTION 8 - HANDLING, USE AND DISPOSAL

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

Not applicable

#### **Waste Disposal Method**

Standard refuse disposal. Wastes are classified as non-hazardous by U. S. Environmental Protection Agency (EPA) and as per definition by Resource Conservation and Recovery Act (RCRA). Follow all local, state, and federal regulations governing waste disposal.

Use protective equipment as described in Section IX. Keep away from heat or flame and protect from the elements.

#### **Hygienic Practice**

Wash after any skin contact.

### SECTION 9 - EXPOSURE CONTROL/PERSONAL PROTECTION

#### **Eye**

Wear safety glasses with side shields.

#### **Skin**

Wear leather or cotton gloves (impervious)

#### **Ventilation**

Although normal conditions of product use does not warrant any special ventilation, use in well ventilated area.

#### **Respiratory**

None required unless used with hot asphalt. Use breathing apparatus (only NIOSH approved) when PEL/TLV is exceeded.

#### **Other Practices**

None

### SECTION 10 - TRANSPORTATION

<b>Shipping name</b>	Not regulated as a hazardous material for transport
<b>Labeling</b>	Not applicable
<b>Labeling Required</b>	None required
<b>Hazard Class</b>	Not applicable

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### SECTION 11 - MISCELLANEOUS INFORMATION

#### Comments

Sand is applied as an anti-sticking agent to the membrane. Calcium carbonate is used as a compound stabilizer and is encased in the asphaltic matrix. Fibrous glass filaments are encapsulated in modified asphalt coating. Due to the nature of the specific use of these products, hazardous exposures are highly unlikely; however all relevant data has been provided for reference.

#### Additional Information

Contact Mule-Hide at 608-365-3111.

#### MSDS Revision Summary

Revision Date	November 1, 2002
Reason for Change	New format

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This is the end of MSDS