

MATERIAL SAFETY DATA SHEET

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

Date Revised: 03/25/09

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)**

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

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