



	This safety data sheet complies with the requirements of: 29CFR1910.1200		
Issue Date 11-May-2015	Revision Date 20-May-2015	Version 1	
<u>Product identifier</u> Product Name	Mule-Hide SEBS Roof Coating		
<u>Other means of identification</u> Product Code Synonyms	None		
Recommended use of the chemica			
Recommended Use	A, white, elastomeric, solvent-based coating intended for the repair and restoration of metal roofs.		
Uses advised against	For exterior use only. Do not use indoors.		
Details of the supplier of the safety Manufacturer Address	y data sheet R.M. Lucas Company Supplier Address	Mule-Hide Products, Co., Inc. 1195 Prince Hall Drive	
	3211 South Wood Street Chicago, Illnois 60608 (773) 523-4300	Beloit, Wi 53511 (800) 786-1492	
<u>Emergency telephone number</u> Emergency Telephone	Call CHEMTREC Day or Night: Within USA and Canada: 1-800 424-9300 Outside USA and Canada: 1-703-527-3887		

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Carcinogenicity	Category 2
Specific target organ toxicity (repeated exposure)	Category 1
Aspiration toxicity	Category 1
Flammable liquids	Category 3

Label elements

Emergency Overview

Danger

Hazard statements

Suspected of causing cancer Causes damage to organs through prolonged or repeated exposure May be fatal if swallowed and enters airways Flammable liquid and vapor



Appearance Viscous

Physical state Liquid

Odor Solvent (Mineral Spirits)

Precautionary Statements - Prevention

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Use personal protective equipment as required Do not breathe dust/fume/gas/mist/vapors/spray Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Keep away from heat/sparks/open flames/hot surfaces. Keep container tightly closed when product is not in use. Ground/bond container and receiving equipment Use explosion-proof electrical/ventilating/lighting/equipment Use only non-sparking tools Take precautionary measures against static discharge

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician Do NOT induce vomiting In case of fire: Use CO2, dry chemical, or foam for extinction

Precautionary Statements - Storage

Store locked up Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal

Disposal should be in accordance with applicable local, regional, national and international laws and regulations.

Hazards not otherwise classified (HNOC)

Not applicable

Other Information

Causes mild skin irritation

- Toxic to aquatic life with long lasting effects
- Harmful to aquatic life
 Unknown acute toxicity

29% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

<u>Mixture</u> This product is a mixture. This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Common name	White Roof Coating.
Synonyms	None.
Chemical nature	Organic solvents and additives.

Chemical Name	CAS No.	Weight-%	Trade Secret
Mineral Spirits (with < 0.1% Benzene)	8052-41-3	20 - 30%	*
Aromatic Naptha (with <0.1% Benzene)	64742-95-6	20 - 30%	*
Hydrocarbon Resin	69430-35-9	10 - 20%	*
Styrene/Butadiene Copolymer	66070-58-4	10 - 20%	*
Calcium Carbonate	471-34-1	10 - 20%	*
1,2,4 Trimethylbenzene	95-63-6	0 - 10%	*
Titanium Dioxide	13463-67-7	0 - 10%	*
Hydrated Aluminum-Magnesium Silicate	12174-11-7	0 - 10%	*

(Attapulgite)

4. FIRST AID MEASURES

Description of first aid measures

General advice	Contains petroleum distillate. Harmful or fatal if swallowed.Vapor harmful. May affect the brain or central nervous system causing dizziness, headache, or nausea. Reports have associated repeated and prolonged occupational exposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.		
Eye contact	In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.		
Skin contact	Wash thoroughly with soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse. In the case of skin irritation or allergic reactions see a physician.		
Inhalation	Move to fresh air in case of accidental inhalation of vapors. If continued difficulty with breathing is experienced, get medical attention immediately.		
Ingestion	Not an expected route of exposure. If swallowed, do not induce vomiting. Get medical attention immediately.		
Self-protection of the first aider	First aider: Pay attention to self-protection!.		
Most important symptoms and effe	fects, both acute and delayed		
Symptoms	May cause skin irritation. May cause eye irritation.		
Indication of any immediate medica	immediate medical attention and special treatment needed		
Note to physicians	Treat symptomatically.		

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Dry chemical. Carbon dioxide (CO2). Sand. Use foam or water FOG as a last resort.

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical

Sealed container may rupture/burst when heated or exposed to excessive heat.

Hazardous combustion products Thermal decomposition (burning) may release irritating, corrosive and/or toxic gases, vapors and fumes.

Explosion data Sensitivity to Mechanical Impact Not sensitive. Sensitivity to Static Discharge May be ignited by heat, sparks or flames.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions

No action should be taken involving any personal risk or without suitable training. Use

	personal protective equipment as required.		
Other Information	Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area).		
For emergency responders	Use personal protection recommended in Section 8.		
Environmental precautions			
Environmental precautions	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent product from entering sewers, drains, or waterways. Local authorities should be advised if significant spillages can not be contained. See Section 12 for additional ecological information.		
Methods and material for containm	ent and cleaning up		
Methods for containment	Contain spillage with non-combustible absorbent material, e.g. sand, earth, diatomaceous earth, vermiculite.		
Methods for cleaning up	Pick up the absorbed material (described just above) and transfer to properly labeled containers for disposal according to local / national regulations (see Section 13).		
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.		
	7. HANDLING AND STORAGE		
Precautions for safe handling			
Advice on safe handling	Use personal protective equipment as required. Remove all sources of ignition. Use only outdoors.		
Conditions for safe storage, including any incompatibilities			
Storage Conditions	Keep containers tightly closed in a cool, dry, well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition.		
Incompatible materials	Strong acids. Strong oxidizing agents.		
8. EXPOSURE CONTROLS/PERSONAL PROTECTION			

Control parameters

Exposure Guidelines

No ACGIH or OSHA PEL is assigned to this mixture.

Exposure limits for the component materials are shown below.

This product, as supplied, is not believed to contain any hazardous material that exceeds exposure limits established by OSHA.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Mineral Spirits (with < 0.1%	TWA: 100 ppm	TWA: 500 ppm	IDLH: 20000 mg/m ³
Benzene)		TWA: 2900 mg/m ³	Ceiling: 1800 mg/m ³ 15 min
8052-41-3		(vacated) TWA: 100 ppm	TWA: 350 mg/m ³
		(vacated) TWA: 525 mg/m ³	
Calcium Carbonate	-	-	TWA: 10 mg/m ³ total dust
471-34-1			TWA: 5 mg/m ³ respirable dust
1,2,4 Trimethylbenzene	-	-	TWA: 25 ppm
95-63-6			TWA: 125 mg/m ³
Titanium Dioxide	TWA: 10 mg/m ³	TWA: 15 mg/m ³ total dust	IDLH: 5000 mg/m ³
13463-67-7		(vacated) TWA: 10 mg/m ³ total dust	
Hydrated Aluminum-Magnesium	TWA: 1 mg/m ³ respirable fraction	-	-
Silicate (Attapulgite)			
12174-11-7			

Appropriate engineering controls

Engineering Controls

Use natural cross ventilation, local (mechanical) pick-up, and/or general area mechanical cross ventilation. Ventilation pattern should be designed to prevent accumulation of asphalt

vapors. Ventilation must be sufficient to maintain asphalt vapor concentrations below the TWA limits outlined above.

Individual protection measures, such as personal protective equipment

Eye/face protection	Wear safety glasses with side shields (or goggles).	
Skin and body protection	Wear protective gloves and protective clothing that is resistant to chemical penetration.	
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, a NIOSH/MSHA approved respiratory protection should be worn.	
General Hygiene Considerations	Wash face, hands and any exposed skin thoroughly after handling. Wash contaminated clothing before reuse.	

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Appearance Color	Liquid Viscous White	Odor Odor threshold	Solvent (Mineral Spirits) 1-30 PPM. Odor thresholds vary greatly. Do not rely on odor threshold alone to determine potentially hazardous substances.
Property_	<u>Values</u>	Remarks • Method	
pH	Not applicable		
Melting point/freezing point	None / -70 °C None / -94 °F	Melting Point is not appl shown.	icable. Freezing points are
Boiling point / boiling range	> 154 °C / 310 °F		
Flash point	> 40.5 °C / > 105 °F	Setaflash	
Evaporation rate	0.1	Butly acetate = 1	
Flammability (solid, gas)	No information available		
Flammability Limit in Air		Flammable above 105 c C.	legrees F and 40.5 degrees
Upper flammability limit:	7.0		
Lower flammability limit:	1.6	_	
Vapor pressure	0.3 (kPa)	@ 20 °C	
Vapor density	5.3	Where: Air = 1 at 68 deg	grees F (20 degrees C)
Specific Gravity	1.10	Water = 1g/ml	
Water solubility	Insoluble		
Solubility in other solvents	Soluble in aromatic and aliphatic solvents.		
Partition coefficient	No information available	No data available.	
Autoignition temperature	330 °C / 626 °F		
Decomposition temperature	No information available		
Kinematic viscosity	No information available		
Dynamic viscosity	No information available	valada if izvaitad	
Explosive properties	Vapor accumulation could flash or ex None	piode if ignited.	
Oxidizing properties	None		
Other Information			
Softening point Molecular weight VOC Content (%) Density Bulk density	Not applicable No information available Less than 550 g/l. 9.0 to 9.4 10lb/gal Not applicable		

10. STABILITY AND REACTIVITY

Reactivity Not applicable

Not applicable

Chemical stabilityStable.Possibility of Hazardous ReactionsNone under normal use.Hazardous polymerizationHazardous polymerization does not occur.

<u>Conditions to avoid</u> Avoid static discharge. Avoid heat, sparks, and open flame. <u>Incompatible materials</u> Strong acids. Strong oxidizing agents. <u>Hazardous Decomposition Products</u> Combustion may produce carbon monoxide, carbon dioxide, and other asphyxiants.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information	Toxicological testing has not been conducted for this product overall. Available toxicological data for individualingredients are summarized below.					
Inhalation	Avoid breathing vapors or	mists.				
Eye contact	Avoid contact with eyes.	Contact with eyes may cause irrita	ition.			
Skin contact	May cause irritation.					
Ingestion	If swallowed, do not induc route of exposure.	If swallowed, do not induce vomiting. Get medical attention immediately. Not an expected route of exposure.				
Component Information	The IARC Monograph (Vol 93, 2010, Carbon Black, Titanium Dioxide, Talc) states: "No significant exposure to primary particles of Titanium Dioxide is thought to occur during the use of products in which Titanium Dioxide is bound to other materials, such as in paints." * No significant exposure to Crystalline Silica (Quartz) is thought to occur during the use of products in which Crystalline Silica (Quartz) is bound to other materials, such as in paints and coatings. As one reference, see California Office of Health Hazard Assessment at: http://www.oehha.org/prop65/CRNR_notices/safe_use/sylicasud2.html					
Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50			
Aromatic Naptha (with <0.1% Benzene) 64742-95-6	= 8400 mg/kg (Rat) > 2000 mg/kg (Rabbit) = 3400 p		= 3400 ppm (Rat)4 h			
Calcium Carbonate 471-34-1	= 6450 mg/kg (Rat)					
1,2,4 Trimethylbenzene 95-63-6	= 3400 mg/kg(Rat)	= 3400 mg/kg (Rat) > 3160 mg/kg (Rabbit) = 18 g/m ³ (Rat) 4 h				
Titanium Dioxide 13463-67-7	> 10000 mg/kg (Rat)	-	-			

Information on toxicological effects

Symptoms

Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	Can cause skin irritation.	
Serious eye damage/eye irritation	Irritating to eyes.	

Irritation	Irritating to ey	Irritating to eyes, respiratory system and skin.					
Corrosivity	Not classified	Not classified.					
Sensitization	May cause se	May cause sensitization of susceptible persons.					
Germ cell mutagenicity	This product	This product does not contain any ingredients that cause germ cell mutagenicity.					
Carcinogenicity	The table bel	The table below indicates whether each agency (ACGIH, IARC, NTP, or OSHA) has listed					
	any ingredier	any ingredient as a carcinogen.					
Chemical Name	ACGIH	ACGIH IARC NTP OSHA					

Chemical Name	ACGIH	IARC	NTP	OSHA
Hydrated	-	Group 2B	-	Х
Aluminum-Magnesium		Group 3		
Silicate (Attapulgite)		-		
12174-11-7				

Legend

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2A - Probably Carcinogenic to Humans

Group 2B - Possibly Carcinogenic to Humans

Group 3 - Not classifiable as a human carcinogen.

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive toxicity	None known.
Developmental Toxicity	None known.
Teratogenicity	None known.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Aspiration hazard	No information available.

Numerical measures of toxicity - No information available

The following values are calculated based on chapter 3.1 of the GHS document For exterior use only. Do not use indoors.

ATEmix (oral)	9,574.00
ATEmix (dermal)	5,132.00
ATEmix (inhalation-dust/mist)	11.83

12. ECOLOGICAL INFORMATION

Ecotoxicity

The following table lists information related to aquatic toxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Aromatic Naptha (with <0.1%	-	9.22: 96 h Oncorhynchus mykiss	6.14: 48 h Daphnia magna mg/L
Benzene) 64742-95-6		mg/L LC50	EC50
1,2,4 Trimethylbenzene 95-63-6	-	7.19 - 8.28: 96 h Pimephales promelas mg/L LC50 flow-through	6.14: 48 h Daphnia magna mg/L EC50

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Chemical Name	Partition coefficient
1,2,4 Trimethylbenzene	3.63
95-63-6	

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes

Disposal should be in accordance with applicable local, regional, national and international laws and regulations.

Contaminated packaging

Do not reuse container.

14. TRANSPORT INFORMATION

DOT	Regulated DOT Ground: Not regulated if shipped in containers < 119 gallons (450 liters). DOT Ground: Regulated if shipped in containers >119 gallons (450 liters).
Proper shipping name Hazard Class Packing Group	Combustible liquid, n.o.s (mineral spirits) 3 III
<u>TDG</u> UN/ID no. Proper shipping name Hazard Class Packing Group	Regulated NA 1993 Combustible liquid, n.o.s (mineral spirits) 3 III
<u>MEX</u> UN/ID no. Proper shipping name	Regulated NA 1993 Combustible liquid, n.o.s. (mineral spirits)
<u>ICAO (air)</u> UN/ID no.	Regulated 1993
IATA UN/ID no.	Regulated 1993
IMDGUN/ID no.	Regulated 1993
RID	Not applicable in the United States.
ADR	Not applicable in the United States.
ADN	Not applicable in the United States.
	15 REGULATORY INFORMATION

15. REGULATORY INFORMATION

TSCA

International Inventories

Act) Inventory or are exempt. All of the components of this product are listed on the DSL.

All of the components of this product are listed on the US TSCA (Toxic Substances Control

Legend:

DSL/NDSL

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
 DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
 EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
 ENCS - Japan Existing and New Chemical Substances
 IECSC - China Inventory of Existing Chemical Substances
 KECL - Korean Existing and Evaluated Chemical Substances
 PICCS - Philippines Inventory of Chemicals and Chemical Substances
 Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical

or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %
1,2,4 Trimethylbenzene - 95-63-6	1.0
SARA 311/312 Hazard Categories	
Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	Yes
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals

sition 65	
n	
Carcinogen	
<u> </u>	

U.S. State Right-to-Know Regulations

This product contains the following substances regulated by various State Right-to-Know regulations.

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Mineral Spirits (with < 0.1% Benzene) 8052-41-3	Х	Х	X
1,2,4 Trimethylbenzene 95-63-6	Х	Х	X
Titanium Dioxide 13463-67-7	Х	Х	Х

U.S. EPA Label Information EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

<u>NFPA</u>	Health hazards 2	Flammability 2	Instability 0	Physical and Chemical Properties -
HMIS Chronic Hazard Star Leger	Health hazards 2 nd *= Ch	Flammability 2 pronic Health Hazard	Physical hazards 0	Personal protection -

Prepared By	Prepared by Robert Barry
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Revision Note	
No information available	

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet