

Material Safety Data Sheet

Mule-Hide Black Splice Adhesive

Date of Preparation: 09/01/2008

Section 1 - Chemical Product and Company Identification

Product/Chemical Name: MULE-HIDE BLACK SPLICE ADHESIVE

Chemical Formula: Mixture **General Use:** Splicing Adhesive

Supplier: Mule-Hide Products Co., Inc. 1195 Prince Hall Dr, Beloit, WI 53511, Phone : 800-786-1492

Manufacturer: Carlisle SynTec Incorporated, 1285 Ritner Highway, Carlisle, PA, 17013 , Phone: 800-479-6832

Emergency Phone Number: CHEMTREC(USA): 800-424-9300

Section 2 - Hazards Identification

☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

Danger – Highly flammable liquid and vapor

Warning – Causes skin irritation

Warning – Causes eye irritation

Warning – May be harmful if swallowed and enters airways

Warning – Suspected of damaging fertility or the unborn child

Warning – May cause an allergic skin reaction

Warning – May cause drowsiness and dizziness

Warning – May cause damage to organs (liver, kidney) through prolonged or repeated exposure

Potential Health Effects

HMIS

H 1

F 4

R 0

PPE†

†Sec. 8

Emergency and Hazards Overview:

Mixture contains flammable components and the vapors may ignite explosively. Vapors are heavier than air and may travel to distant sources of ignition and flash back. Harmful if swallowed or inhaled. Overexposure to vapors may cause dizziness, headache or central nervous depression. May cause irritation to the eyes, skin and respiratory tract.

Primary Entry Routes: Skin contact, skin absorption, eye contact, inhalation, ingestion.

Acute Effects

Inhalation: May cause irritation of the nose, throat and respiratory tract. At very high concentrations, breathing vapors may cause pulmonary edema, anorexia, nausea and vomiting.

Eye: May cause eye irritation on short-term exposure to liquid or vapor.

Skin: May cause skin irritation on short-term exposure to liquid or vapor. Solvents may be absorbed through the skin in toxic amounts.

Ingestion: Ingestion may cause symptoms similar to those of inhalation. The oral toxicity is estimated to be low, therefore not expected to be harmful in small amounts.

Carcinogenicity: IARC, NTP, and OSHA do not list this product as a carcinogen.

Medical Conditions Aggravated by Long-Term Exposure: Respiratory symptoms associated with pre-existing lung disorders and pre-existing heart disorders may be aggravated by exposure to this material. Prolonged skin contact with this product may defat skin leading to irritation or dermatitis resulting in itching, redness and rash.

Chronic Effects: Overexposure may result in headache, dizziness, fatigue, nausea and loss of consciousness.

Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Chronic exposure may cause reversible kidney and liver injury.

Section 3 – Ingredient Information

Hazardous Ingredients	CAS Number	% wt
Methyl Ethyl Ketone	78-93-3	60 – 100
Additional Ingredients	CAS Number	% wt
Nitrile Rubber, Alkylphenolic Resin	Not available	
Calcium Carbonate	471-34-1	

Section 4 - First Aid Measures

Inhalation: Move victim to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get medical attention immediately.

Eye Contact: Immediately flush eyes with running water for at least 15 minutes. Get medical attention.

Skin Contact: Immediately flush skin with running water and remove contaminated clothing. Wash exposed area with soap and water. Get medical attention.

Ingestion: DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Note to Physicians: This product contains Methyl Ethyl Ketone (MEK).

Special Precautions/Procedures: Whenever possible, remove the victim from the source of contamination.

Section 5 - Fire-Fighting Measures

Flash Point: -6°C (22°F)

Flash Point Method: SETA

Autoignition Temperature: 516°C (961°F)

LEL: 2.0% by volume

UEL: 11.5% by volume

Flammability Classification: Division 2

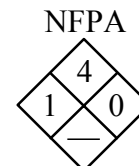
Extinguishing Media: In case of fire, use dry chemical, carbon dioxide, or foam. Water may not be effective as an extinguishing agent. Water fog or spray may be used to provide a smothering effect on fire and to cool fire-exposed containers and surrounding combustibles. Do not use a solid stream of water because it can scatter and spread the fire.

Unusual Fire or Explosion Hazards: Extremely flammable. Store and use away from all sources of heat, flame, or sparks. Do not smoke while applying. Vapors are heavier than air and may travel along ground or may be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electrical motors, static discharge, or other ignition sources at locations distant from material handling point and flash back. All containers should be grounded when material is transferred.

Hazardous Combustion Products: Toxic gases or vapors, such as carbon monoxide or carbon dioxide, various hydrocarbons, nitrogen compounds, and hydrogen cyanide may be released in a fire.

Fire-Fighting Instructions: This product contains solvents that are dangerous fire and explosion hazards when exposed to heat or flame. Fire fighters should wear a self-contained breathing apparatus and full protective clothing with a full face piece operated in the positive-pressure demand mode.

Fire-Fighting Equipment: Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full-face piece operated in pressure-demand or positive-pressure mode.



Section 6 - Accidental Release Measures

Spill /Leak Procedures: Remove all sources of ignition. Avoid breathing vapors. Use self-contained breathing apparatus in enclosed area. Ventilate area. Contain and remove with inert absorbent materials and non-sparking tools.

Personnel Safeguards: Immediately evacuate all non-essential personnel to safe areas. Emergency responders should wear proper protective gear before entering the affected area. Observe all precautions noted above.

Regulatory Notifications: Waste of this product is defined as hazardous according to U.S. EPA. Spill reporting requirements and reportable quantities vary by region. Consult all applicable state and local regulations.

Containment and Cleanup: Remove all sources of ignition. Do not use metal shovels or other tools which could create sparks. Prevent liquids from entering sewers, drains or waterways by diking with sand or earth. Absorb with vermiculite or other absorbent material and remove for disposal.

Section 7 - Handling and Storage

Handling Precautions: Use away from all sources of heat, flame, or sparks. Do not smoke while using. Handling equipment must be grounded to prevent sparking. Handle with non-sparking tools. Wash with soap and water before eating or drinking. Launder contaminated clothing. KEEP OUT OF REACH OF CHILDREN.

Storage Requirements: Keep containers cool, dry, and store away from all sources of heat, flame, and sparks. Keep containers tightly closed and store with adequate ventilation. Do not pressurize, cut, weld, or grind the containers or empty containers which may contain residual product and solvent vapors that may ignite explosively.

Section 8 - Exposure Controls / Personal Protection

Hazardous Ingredients:

Ingredient	OSHA PEL		ACGIH TLV		NIOSH REL		NIOSH IDLH
	TWA	STEL	TWA	STEL	TWA	STEL	
Methyl Ethyl Ketone	200 ppm	300 ppm	200 ppm	300 ppm	200 ppm	300 ppm	3000 ppm

Engineering Controls: Do not use in enclosed areas without proper explosion-proof ventilation. General and local exhaust ventilation must be sufficient to control vapor concentrations and keep the PEL below TLV/TWA. Use explosion proof ventilation equipment. Take care not to draw vapors into non-explosion proof or spark generating equipment.

Ventilation: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs. Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

Respiratory Protection: Provide adequate ventilation to maintain vapors below TLV/TWA. If vapor levels are exceeded, use NIOSH approved respirator, both during and immediately after application, until vapor levels are below limits.

Protective Clothing/Equipment: Permeation resistant gloves (that meet ANSI/ISEA 105-2005) REQUIRED. Protective glasses or goggles recommended. Industrial boots to protect feet from adhesive contact. Long sleeves, long trousers to protect skin from adhesive contact. Protective skin creams or emollients useful.

Safety Stations: Source of clean water should be available in the work area for flushing skin and eyes.

Contaminated Equipment: Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment.

Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics. KEEP OUT OF REACH OF CHILDREN!

Section 9 - Physical and Chemical Properties

Physical State: Liquid

Appearance and Odor: Tan liquid with strong ketone odor.

Odor Threshold: Not available

Vapor Pressure: 70.0mm Hg at 20°C (77°F)

Vapor Density (Air=1): 2.4

Specific Gravity (H₂O=1, at 4°C/39°F): 0.883

pH: N/A

Water Solubility: Negligible

Boiling Point: 79.6°C (175°F)

Freezing/Melting Point: 85.9°C (187°F)

% Volatile: 75.0

Evaporation Rate: 3.8

VOC: 625 – 670 gpl

Flash Point: -6°C (22°F)

Flash Point Method: SETA

Autoignition Temperature: 516°C (961°F)

LEL: 2.0% by volume

UEL: 11.5% by volume

Section 10 - Stability and Reactivity

Stability: Stable under normal conditions.

Possibility of Hazardous Reactions: Will not occur.

Chemical Incompatibilities: Strong oxidizing agents, strong acids, or bases, alkali metals and halogens.

Conditions to Avoid: Heat, sparks, flames and other sources of ignition.

Hazardous Decomposition Products: Toxic gases or vapors such as carbon monoxide and carbon dioxide, may be released in a fire. Contact with strong oxidizing agents may cause fire and explosions.

Section 11- Toxicological Information

Toxicity Data:

Eye Effects: Irritating

Skin Effects: Irritating

Acute Inhalation Effects: Product toxicity has not been determined.

Following are the component data:

Methyl ethyl ketone: Rat, inhalation, LC₅₀: > 8000 ppm / 8 hr

Acute Oral Effects: Product toxicity has not been determined.

Following are the component data:

Methyl ethyl ketone: Rat, oral, LD₅₀: 2.9 gm/kg

Acute Dermal Effects: Product toxicity has not been determined.

Following are the component data:

Methyl ethyl ketone: Rabbit, dermal, LD₅₀: > 5 mL/kg

Chronic Effects: May cause skin sensitization in some people.

Carcinogenicity: Not listed in IARC or NTP

Mutagenicity: No evidence

Teratogenicity: No evidence

Section 12 - Ecological Information

Ecotoxicity: Not known

Environmental Fate: Not known

Environmental Degradation: Not known

Soil Absorption/Mobility: Not known

Section 13 - Disposal Considerations

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

Disposal Regulatory Requirements: Consult all regulations (federal, state, provincial, local) or a qualified waste disposal firm when characterizing waste for disposal.

Container Cleaning and Disposal: Dispose of waste in accordance with all applicable regulations. Waste which results from the clean-up of spilled product, absorbed by a noncombustible absorbing media, would not be considered a hazardous waste once the methyl ethyl ketone has evaporated.

Section 14 - Transport Information

DOT Transportation Data (49 CFR 172.101):

Shipping Name: Adhesives, 3,
UN 1133, PGII

Shipping Symbols: Flammable
Hazard Class: 3

ID No.: UN1133

Packing Group: II

Label: red caution label required

Special Provisions (172.102):

149, B52, IB2, T4, TP1, TP8

Packaging Authorizations

a) Exceptions: 173.150

b) Non-bulk Packaging: 173.173

c) Bulk Packaging: 173.242

Quantity Limitations

a) Passenger, Aircraft, or Railcar: 5L

b) Cargo Aircraft Only: 60L

Vessel Stowage Requirements

a) Vessel Stowage: B

b) Other: ---

Section 15 - Regulatory Information

EPA Regulations:

RCRA Hazardous Waste Number (40 CFR 261.33): Methyl ethyl ketone, CAS #78-93-3, RCRA Code U159

RCRA Hazardous Waste Classification (40 CFR 261.31): F005 (methyl ethyl ketone)

RCRA Groundwater List:

Chemical Name	CAS	#	Meth	ods PQL
Methyl ethyl ketone	78-93-3			8015, 8240 10, 100

CERCLA Hazardous Substance (40 CFR 302.4) listed/unlisted specific per RCRA, Sec. 3001; CWA, Sec. 311 (b)(4); CWA, Sec. 307(a), CAA, Sec. 112: Methyl ethyl ketone, 78-93-3, RQ 5000 lb

SARA 311/312 Codes:

SARA Toxic Chemical (40 CFR 372.65): Methyl Ethyl Ketone, CAS#78-93-3, 60 – 100%

SARA EHS (Extremely Hazardous Substance) (40 CFR 355): Not listed, Threshold Planning Quantity (TPQ)

OSHA Regulations:

Clean Water Act Priority Pollutants: none listed

Clean Water Act Hazardous Substances: none listed

Clean Air Act SOCM Chemicals: Methyl ethyl ketone, CAS #78-93-3

Clean Air Act Hazardous Air Pollutants: Methyl ethyl ketone, CAS #78-93-3

Marine Pollutants: none listed

OSHA, IARC, NTP Carcinogens: none listed

Ozone Depleting Chemicals: none listed

State Regulations:

California Proposition 65 Chemicals: None listed

Delaware Air Quality Management List: Methyl ethyl ketone CAS #78-93-3 DRQ: 5000 State? N

Massachusetts Hazardous Substances List:

Chemical Name	CAS	#	Co	de
Methyl ethyl ketone	78-93-3			2, 4, 5, 6, F8, F9

Michigan Critical Materials Register: None listed

Minnesota Hazardous Substances List:

Chemical Name	CAS	#	Codes	Hazards	Carcinoge	n
Methyl ethyl ketone	78-93-3		ANO	--	No	

New Jersey RTK Hazardous Substance List:

Chemical Name	CAS #	Substance #	DOT #	TPQ	EHS
Methyl ethyl ketone	78-93-3	1	258 1	193 -	-

New York List of Hazardous Substances:

Chemical Name	CAS	#	RQ	Air RQ	Land	Note
Methyl ethyl ketone	78-93-3	5		000 1	-	-

Pennsylvania Hazardous Substances List:

Chemical Name	CAS	#	Co	de	Code	E = Environmental hazard
2-Butanone	78-93-3		E			

Washington Permissible Exposure Limits for Air Contaminants:

Chemical Name	CAS	#	TWA	TWA	STEL	STEL	Ceiling	Ceiling	Skin
Ppm				mg	ppm	mg	ppm	mg	
Methyl ethyl ketone	78-93-3		200 5	90 3	00 8	85 -	-	--	--

Section 16 - Other Information

Prepared By: Research & Development

Revision Notes: General Revision - Formatting Changes.

Additional Hazard Rating Systems:

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