

Material Safety Data Sheet

Mule-Hide WHITE SPLICE ADHESIVE

Date of Preparation: 09/15/2008

Section 1 - Chemical Product and Company Identification

Product/Chemical Name: MULE-HIDE WHITE SPLICE ADHESIVE
Chemical Formula: Mixture **General Use:** Contact 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 serious eye irritation
Warning – May be harmful if swallowed and enters airways
Danger – May damage fertility or the unborn child
Warning – May cause an allergic skin reaction
Warning – Suspected of causing genetic defects (skin)
Warning – May cause drowsiness and dizziness
Warning – May cause damage to organs (liver, kidney, ear) through prolonged or repeated exposure

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PPE†

†Sec. 8

Potential Health Effects

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

Target Organs:

Acute Effects

Inhalation: Nose and throat irritation on short-term exposure to liquid or vapor. Aspiration into lungs can cause chemical pneumonitis, which can be fatal.

Eye: Irritation on short-term exposure to liquid or vapor.

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

Ingestion: Ingestion can cause irritation of gastrointestinal tract

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.

Chronic Effects: Overexposure may result in headache, dizziness, fatigue, nausea and loss of consciousness, even asphyxiation. Moderate irritation of skin, eyes and mucous membranes of upper respiratory tract on prolonged/repeated contact. Dermatitis and defatting of the skin. 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
Toluene	108-88-3	40-70
Heptane	142-82-5	10-30
Polymeric Isophorone Diisocyanate	53880-05-0	1-5
Titanium Oxide	13463-67-7	1-5
Additional Ingredients	CAS Number	% wt
Halogenated Butyl Rubber	Proprietary	
Butyl Rubber	Proprietary	
Hydrocarbon Resin	Proprietary	

Section 4 - First Aid Measures

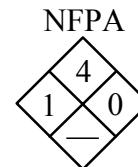
Inhalation: Remove victim to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get medical attention immediately.

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. Get medical attention immediately.
Note to Physicians: This product contains several organic solvents (Toluene and Heptane).
Special Precautions/Procedures: Whenever possible, remove the worker from the source of contamination.

Section 5 - Fire-Fighting Measures

Flash Point: 8 °F (-13 °C)
Flash Point Method: CC
Autoignition Temperature: 223 °C (433°F)
LEL: 1.0% v/v
UEL: 7.0% v/v
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 container 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 location 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, carbon dioxide, or oxides of nitrogen 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 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.
Large Spills
Containment: For large spills, dike far ahead of liquid spill for later disposal. Do not release into sewers or waterways.
Cleanup: Clean-up spill as soon as possible. Collect any excess material with absorbent pads, sand or other inert non-combustible absorbent materials. Place into appropriate waste containers for later disposal. Comply with all federal and local laws and regulations.
Regulatory Requirements: Follow applicable OSHA regulations (29 CFR 1910.120).

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 that 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	
Toluene	200 ppm	150 ppm	20 ppm (skin)	None estab.	100 ppm	150 ppm	500 ppm
Heptane	500 ppm	500 ppm	400 ppm	500 ppm	85 ppm	440 ppm	750 ppm
Polymeric Isophorone Diisocyanate	None estab.	None estab.	None estab.	None estab.	None estab.	None estab.	None estab.
Titanium Oxide	15 mg/m3 (as dust)	None estab.	10 mg/m3 (as dust)	None estab.	None estab.	None estab.	5000 mg/m3 (as dust)

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 vapor concentration below 100 ppm.

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.

Administrative Controls:

Respiratory Protection: A NIOSH approved respirator must be used if vapor concentration is 100 ppm or above.

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

Safety Stations: Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

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.

Section 9 - Physical and Chemical Properties

Physical State: Liquid

Appearance and Odor: white liquid with strong hydrocarbon odor

Odor Threshold(ppm): Not available.

Vapor Pressure: 36.7-45.0 mm Hg

Vapor Density (Air=1): 3.1-3.7

Specific Gravity (H₂O=1, at 4°C/39°F): 0.890

pH: N/A

Water Solubility: Negligible

Other Solubilities:

Boiling Point(°C): 98-110 (208.4 – 230.0°F)

Freezing/Melting Point(°C): -47 (-52.6°F)

% Volatile: 74.0

Evaporation Rate: 2.0-4.8

VOC: 637 gpl

Flash Point: -13°C (8°F)

Flash Point Method: CC

Autoignition Temperature: 223°C (433.4°F)

LEL: 1.0% v/v

UEL: 7.0% v/v

Section 10 - Stability and Reactivity

Stability: Stable.

Possibility of Hazardous Reactions: Will not occur.

Chemical Incompatibilities: Strong oxidizing agents, acid, bases.

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

Hazardous Decomposition Products: Toxic gases or vapors such as carbon monoxide, carbon dioxide, or oxides of nitrogen may be released in a fire.

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:

TC₅₀:

Toluene: Rat > 26,700 ppm 1 hr; Mouse 400 ppm 24 hr

Heptane: Human TCLo: 1000 ppm/6 minutes

Acute Oral Effects: Product toxicity has not been determined.

Following are component data:

LD₅₀:

Toluene: Rat 5000 mg/kg

Heptane: Rat, ivn, 222 mg/kg

Chronic Effects: May cause skin sensitivity in some people.

Carcinogenicity: Not listed on IARC or NTP.

Mutagenicity: Some evidence in animal exposure to Toluene.

Teratogenicity: Some evidence in animal exposure to Toluene.

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.

Section 14 - Transport Information

DOT Transportation Data (49 CFR 172.101):

Shipping Name: Adhesives, 3, UN1133, II	Packaging Authorizations	Quantity Limitations
Shipping Symbols: Flammable	a) Exceptions: 173.150	a) Passenger, Aircraft, or Railcar: 5L
Hazard Class: 3	b) Non-bulk Packaging: 173.173	b) Cargo Aircraft Only: 60L
ID No.: UN 1133	c) Bulk Packaging: 173.242	
Packing Group: II		Vessel Stowage Requirements
Label: red caution label required		a) Vessel Stowage: B
Special Provisions (172.102): 149, B52, IB2, T4, TP1, TP8		b) Other: --

Section 15 - Regulatory Information

EPA Regulations:

RCRA Hazardous Waste Number (40 CFR 261.33): Not listed

RCRA Hazardous Waste Classification (40 CFR 261): Not classified

TSCA (Toxic Substances Control Act) Status:

TSCA (United States) – The intentional ingredients of this product are listed.

CERCLA Hazardous Substance RQ – 40 CFR 302.4 (a)

Component	R	Q (lbs)
Toluene		1000

CERCLA RQ – 40 CFR 302.4 (b)

Materials with a “listed” RQ may be reportable as an “unlisted hazardous substance”. See 40 CFR 302.5 (b).

SARA 311/312 Codes:

Immediate (X) Delayed (X) Fire (X) Reactive () Sudden Release of Pressure ()

SARA 313 Components (40 CFR 372.65):

Section 313 Component(s)	C	AS Number	%
Toluene		108-88-3	40 – 70

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

OSHA Regulations:

Air Contaminant (29 CFR 1910.1000, Table Z-1, Z-1-A): Not listed

OSHA Specifically Regulated Substance (29 CFR 1910): None listed

EPA Accidental Release Prevention (40 CFR 68): None listed

State Regulations:

California Proposition 65:

The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1986: This product contains the following substance(s) known to the State of California to cause reproductive harm:

Toluene

Delaware Air Quality Management List:

Chemical Name	DRQ:	State	?
Toluene	1000		Must be reported to the DRQ

Massachusetts Hazardous Substances List:

Chemical Name	CAS	#	Co	des
Toluene	1	08-88-3	2	, 4, 5, 6, F7, F8
Heptane	14	2-82-5	2,	4, 5, 6
Titanium Oxide	13	463-67-7	4	

Michigan Critical Materials Registry:

Chemical Name	CAS	#	Rep	ort	Class
Toluene	10	8-88-3	-	-	-

Minnesota Hazardous Substance:

Chemical Name	Codes	Hazards	Carcinoge	n?
Toluene	A NO	s kin	N o	
Heptane	AN O	--	No	
Titanium Oxide	A	--	No	

New Jersey RTK Label Information:

Chemical Name	CAS #	Substance #	DOT #	TPQ	EHS
Toluene	108-88-3	1866 1	294 -	-	

New York List of Hazardous Substances:

Chemical Name	RQ – Air	RQ – Land	Note
Toluene 1	000 1		none

Pennsylvania RTK Label Information

Chemical Name	CAS	#	Co	de
Benzene, Methyl		108-88-3		E
Heptane		142-82-5	-	-
Titanium Oxide	13	463-67-7	--	

Washington Air Contaminant:

TWA (ppm):	100 (Toluene)	
TWA (mg):	375 (Toluene)	10 (Titanium Oxide)
STEL (ppm):	150 (Toluene)	
STEL (mg):	560 (Toluene)	
Ceiling (ppm):	None listed	
Ceiling (mg):	None listed	
Skin:	None listed	

Section 16 - Other Information**Prepared By:** Research & Development**Revision Notes:** Section 8- Revised limits for Toluene and Heptane.

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