

Material Safety Data Sheet

PVC CUT-EDGE SEALANT

MSDS 10-3410

Date of Preparation: 4/20/09

Section 1 - Chemical Product and Company Identification

Product/Chemical Name: PVC CUT -EDGE SEALANT

Chemical Formula: Mixture

CAS Number: None Assigned

Other Designations:

General Use: To Seal Cut Edges of Reinforced PVC Membrane

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: 800-4SYNTEC
Emergency Phone Number: CHEMTREC (USA) 800-424-9300

Section 2 - Hazards Identification

☆☆☆☆☆ **Emergency Overview** ☆☆☆☆☆

Danger- Extremely flammable liquid and vapor

Warning- Causes skin irritation

Warning- Causes eye irritation

Warning- May be harmful if swallowed and enters airways

Warning- May cause damage to heart, lungs, kidney, liver and central nervous system through prolonged or repeated exposure.

Potential Health Effects

Primary Entry Routes: inhalation, skin and eye contact

Target Organs: skin, eye, lungs, central nervous system (CNS), heart, kidney, liver

Acute Effects

Inhalation: may cause upper respiratory irritation

Eye: irritation

Skin: irritation

Ingestion: gastrointestinal irritation, vomiting, diarrhea.

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

Medical Conditions Aggravated by Long -Term Exposure: Pre-existing respiratory and skin disorders; CNS, heart liver and/or kidney disease.

Chronic Effects: Prolonged, excessive exposure to vapors may cause nervous system, heart, lungs, kidney, and liver damage, and repeated or prolonged exposure will defat the skin, causing drying, cracking and dermatitis.

HMIS

H 2

F 3

R 0

PPE†

†Sec. 8

Section 3 - Ingredient Information

Hazardous Ingredients	CAS Number	% wt
Tetrahydrofuran	109-99-9	40-70
Cyclohexane	108-94-1	7-13
Additional Ingredients	CAS Number	% wt

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. Respiratory symptoms associated with pre-existing lung disorders, skin allergies, and pre-existing heart disorders may be aggravated by exposure to this material.

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.

After first aid, get appropriate in-plant, paramedic, or community medical support.

Note to Physicians: Skin contact may aggravate existing dermatitis.

Special Precautions/Procedures: 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.

Section 5 - Fire-Fighting Measures

Flash Point: 1°F (-17°C)
Flash Point Method: TCC
Burning Rate: N/A
Autoignition Temperature: 321°C
LEL: 2%
UEL: 11.8%



Flammability Classification: Division 3
Extinguishing Media: Water, spray, fog, carbon dioxide (CO₂), dry chemical, foam
Unusual Fire or Explosion Hazards: Vapor may form flammable atmosphere in confined spaces or low areas. Pressure build-up may also occur in closed, heated containers. Water spray or fog should be used to keep containers cool.
Hazardous Combustion Products: Carbon monoxide and carbon dioxide.
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

Containment Procedures: Remove all sources of ignition. Evacuate and ventilate spill area. Dam spill area with sand, earth or other suitable absorbent. Prevent entry of materials into sewers, other water sources, or land areas. Wear full protective clothing and respiratory protection during clean-up as required to maintain exposures below the applicable exposure limit. Shovel absorbed material into containers in well-ventilated area.
Disposal: This product is classified as ignitable hazardous waste by the Resource Conservation and Recovery Act (RCRA 40 CFR 261: Waste # D001). Dispose of spilled material in accordance with federal, state and local regulations in a hazardous waste facility. Incineration is the preferred method of disposal. Empty containers must be handled with care due to product residue. Decontaminate empty containers prior to disposal. Do not heat or cut empty containers with electric or gas torch. If you are unsure of the regulations, contact your local Public Health Department, or the local office of the Environmental Protection Agency (EPA).

Section 7 - Handling and Storage

Storage/Handling: Use protective equipment as described in section 8 of this material safety data sheet when handling uncontained material. Warehouse storage should be in accordance with package directions, if any. Material should be kept cool and dry and protected from the elements. Store in tightly closed containers to prevent contamination. Handle with non-sparking tools. Store at 15.5-32.2°C (60-90°F) and out of the sun.
Conditions to Avoid: Keep away from ignition sources, such as heat, sparks, pilot lights, static electricity and open flames. Containers exposed to elevated temperatures may develop pressure buildup and rupture.

Section 8 - Exposure Controls / Personal Protection

Hazardous Ingredients:

Ingredient	OSHA PEL		ACGIH TLV		NIOSH REL		NIOSH IDLH
	TWA	STEL	TWA	STEL	TWA	STEL	
Tetrahydrofuran	200 ppm	250 ppm	200 ppm	250 ppm	200 ppm	250 ppm	2000 ppm
Cyclohexane	300 ppm		300 ppm		300 ppm		1300 ppm

Summary: Protective equipment should be provided as necessary to prevent inhalation of vapors, prolonged skin contact, and to keep exposure levels below the applicable exposure limits identified in Section 2.
Ventilation: Local exhaust or general dilution ventilation may be required to maintain exposures below the applicable exposure limits. The need for ventilation systems should be evaluated by a professional industrial hygienist, while the design of specific ventilation systems should be conducted by a professional engineer.
Respiratory Protection: Use a NIOSH approved organic respirator to protect against inhalation of vapors. A respirator should be used if ventilation is unavailable, or is inadequate for keeping vapor levels below the applicable exposure limits.
Eye: Chemical goggles or a face shield is recommended.
Skin: Nitrile gloves should be used to help prevent excessive skin contact.
Other: Chemical apron, eye bath, and safety shower.

Special Considerations for Repair/Maintenance of Contaminated Equipment. Use personal protective equipment as discussed above.

Section 9 - Physical and Chemical Properties

Physical State: Liquid.

Appearance and Odor: White, clear, or gray liquid with chemical odor.

Odor Threshold: Not determined

Vapor Pressure: Not determined

Vapor Density (Air=1):>1

Formula Weight:

Density:

Specific Gravity (H₂O=1, at 4 °C): 0.92

pH: Not determined

Water Solubility: Not determined

Other Solubilities:

Boiling Point: 66-156°C/151-312°F

Freezing/Melting Point(°C): Not determined.

Viscosity: Not determined

% Volatile: 81.6

Evaporation Rate(nBuAc=1): Not determined

Flash Point: 1°F (-17°C)

Flash Point Method: TCC

Burning Rate: N/A

Autoignition Temperature: 321°C

LEL: 2%

UEL: 11.8%

Section 10 - Stability and Reactivity

Stability: Stable

Possibility of Hazardous Reactions: Will not occur.

Chemical Incompatibilities: Strong oxidizing agents, acids and bases.

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

Hazardous Decomposition Products: Carbon monoxide, and carbon dioxide.

Section 11- Toxicological Information

This product has not been tested as a separate entity. Therefore, the hazards must be evaluated on the basis of the individual ingredients, and those hazards must be assumed to be additive in the absence of complete information. The hazards described in this document have been evaluated based on a threshold of 1.0% for all hazardous ingredients and 0.1% for all carcinogens.

Acute Effects: Excessive exposure to the vapor from this product is irritating to the eyes, skin, and respiratory tract. It may cause fatigue, weakness, confusion, headache, dizziness, and drowsiness. Very high concentrations are anesthetic and may have other central nervous system effects, including death. Repeated or prolonged exposure will defat the skin, causing drying, cracking, and dermatitis and may cause blistering.

Chronic Effects: Prolonged, excessive exposure to vapors may cause nervous system, heart, kidney and liver damage.

Section 12 - Ecological Information

Ecotoxicity: This material is harmful to aquatic organisms

Environmental Fate: Not Determined

Environmental Degradation: Not Determined

Soil Absorption/Mobility: Not Determined

Section 13 - Disposal Considerations

Summary: This product is classified as ignitable hazardous waste by the Resource Conservation and Recovery Act (RCRA; 40 CFR 261: Waste # D001). Dispose of spilled material in accordance with federal, state and local regulations in a hazardous waste facility. Incineration is the preferred method of disposal. Empty containers must be handled with care due to product residue. Decontaminate empty containers prior to disposal. Do not heat or cut empty containers with electric or gas torch. If you are unsure of the regulations, contact your local Public Health Department, or the local office of the Environmental Protection Agency (EPA).

Section 14 - Transport Information

DOT Transportation Data (49 CFR 172.101):

Shipping Name: Flammable Liquid NOS 3 PGII
limited quantity

Hazard Class: 3

ID No.: UN1993

Packing Group: II limited quantity

Hazard Label: Flammable Liquid.

Section 15 - Regulatory Information

USA Regulations

Federal Regulations: The Occupational Safety and Health Administration (OSHA), National Toxicology Program (NTP), Internal Agency for Research on Cancer (IARC), and American Conference on Governmental Industrial Hygienists (ACGIH) have not classified this product as a carcinogen. The following is information on carcinogen classifications on this product's components:

IARC Group 3 Not Classifiable as to its carcinogenicity to humans: Cyclohexane

ACGIH A4 Not Classifiable as a human carcinogen: Cyclohexane

The Permissible Exposure Limits (PELs) reported in this MSDS are from the air contaminants standard OSHA issued in 1989. While an appeals court eventually vacated this standard, it was without authority to reverse state law under which states, operating with their own OSHA programs, has adopted the 1989 standard. Below is a list of states enforcing the 1989 standard. Please also refer to 29 CFR 1910.10000 and to relevant state statutes for other applicable exposure limits.

State Regulations:

States Enforcing 1989 Air Contaminants Standard: AK, CA, CT, ME, MI, MN, NM, TN, WA, WI

Component	CAS#	State(s)
Tetrahydrofuran	109-99-9	CA, MA, MN, NJ, PA, RI
Cyclohexane	108-94-1	CA, NJ, PA

Environmental Regulations:

Component	CAS #	Percent	SARA 313	SARA 302	CERCLA	CERCLA
				TPQ (lbs)		
Tetrahydrofuran	109-99-9	50-75	No	NA	Yes	1,000
Cyclohexane	108-94-1	5-20	No	NA	Yes	5,000

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA):

Under CERCLA and SARA Title III Section 304 emergency notification requirements, releases of the CERCLA hazardous substance(s) listed in the table above, in quantities equal to or greater than the reportable quantity (RQ), are subject to reporting to the National Response Center, and state and local emergency commissions.

Resource Conservation and Recovery Act (RCRA):

Pursuant to Resource Conservation and Recovery Act (RCRA; 40 CFR 261) regulations, this product is classified as an ignitable hazardous waste, code D001

Toxic Substances Control Act Inventory (TSCA 8(b)):

This product and its components are listed.

Other TSCA Requirements:

Tetrahydrofuran (109-99-9) is regulated under Section 4(e) dermal absorption testing; Section 8(a), PAIR and inventory update reporting; and Section 12(b), notification of export. Cyclohexanone (108-94-1) is regulated under Section 8(a), PAIR and inventory update reporting.

International Regulations

Canada Environmental Protection Act Domestic Substance List (Section 25(1) DSL): This product and its components are not listed.

Section 16 - Other Information

Prepared By: Research & Development

Revision Notes: Revised sections 2, 14 and 15.

Disclaimer: The information contained in this document is based upon data that was supplied to Mule-Hide by other companies & organizations. No warranty of merchantability or fitness for a particular purpose is expressed or implied regarding the accuracy or completeness of the data and/or information in this material safety data sheet.