

Material Safety Data Sheet

Versico's Cold Applied Adhesive

MSDS No. 307780

Date of Preparation: 03/01/2010

Revision: 001

Section 1 - Chemical Product and Company Identification

Product/Chemical Name: Versico's Cold Applied Adhesive
Chemical Formula: Asphalt modified silyl terminated polyether
CAS Number: Mixture
Other Designations:
General Use: Roofing Adhesive
Manufacturer: Versico, P.O. Box 1289, Carlisle, PA 17013 (800)-992-7663
 Chemtrec (800)-424-9300

Section 2 - Composition / Information on Ingredients

Ingredient Name	CAS Number	% wt or % vol
Amino Silane	1760-24-3	Prop
Asphalt	8052-42-4	Prop

Trace Impurities:

Ingredient	OSHA PEL		ACGIH TLV		NIOSH REL		NIOSH IDLH
	TWA	STEL	TWA	STEL	TWA	STEL	
Amino Silane	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Asphalt	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Section 3 - Hazards Identification

☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

HMIS	
H	1
F	0
R	0
PPE[†] B	
[†] Sec. 8	

Potential Health Effects

Primary Entry Routes: Eyes and Skin

Acute Effects

Inhalation: Short-term harmful effects are not expected from vapors generated at ambient temperatures.
Eye: Contact can cause severe irritation. Repeated or prolonged direct contact may cause chemical burns to the eyes
Skin: May cause irritation. Repeated or prolonged direct contact may cause dermatitis
Ingestion: May be harmful if ingested

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

Medical Conditions Aggravated by Long-Term Exposure: Preexisting skin or eye disorders may be aggravated by exposure to this product

Chronic Effects: Repeated or prolonged contact with eyes may cause chemical burns to the eyes.

Section 4 - First Aid Measures

Inhalation: If irritation, headache, nausea, or drowsiness occurs, remove to fresh air. Get medical attention if breathing becomes difficult or respiratory irritation persists.

Eye Contact: Irrigate immediately with plenty of clean water for 15 minutes. Seek medical attention if irritation persists

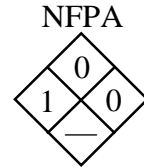
Skin Contact: Clean product from affected area with ethyl alcohol; then wash with soap and water

Ingestion: Not a likely route of entry. Contact a physician.

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

Section 5 - Fire-Fighting Measures

Flash Point: Not Established
Flash Point Method: N/A
Autoignition Temperature: Not Established
LEL: N/A
UEL: N/A



Extinguishing Media: Foam, CO₂, dry chemical or water fog.

Unusual Fire or Explosion Hazards: Under some conditions, sulfur compounds in hot asphalt may evolve H₂S or SO₂. Adding water to hot asphalt presents an explosion hazard.

Hazardous Combustion Products: CO, CO₂, H₂S, SO₂

Fire-Fighting Instructions: Do not release runoff from fire control methods to sewers or waterways.

Fire-Fighting Equipment: Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full facepiece operated in pressure-demand or positive-pressure mode. Use of water on asphalt above 100°C (212°F) can cause product to expand with explosive force.

Section 6 - Accidental Release Measures

Spill /Leak Procedures:

Small Spills: Collect spill with absorbent material and dispose of properly.

Large Spills

Containment: For large spills, dike far ahead of liquid spill for later disposal. Do not release into sewers or waterways.

Cleanup: Collect remainder of the spill with absorbent material and place the material into a container approved for waste disposal.

Regulatory Requirements: Follow applicable OSHA regulations (29 CFR 1910.120).

Section 7 - Handling and Storage

Handling Precautions: Use appropriate personal protective equipment. Avoid contact with eye, skin, and clothing.

Storage Requirements: Store in a cool, dry area away from incompatible materials.

Regulatory Requirements: None

Section 8 - Exposure Controls / Personal Protection

Engineering Controls:

Ventilation: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

Administrative Controls:

Respiratory Protection: Not ordinarily required. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved respirator. Seek professional advice prior to respirator selection and use. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. For emergency or nonroutine operations (cleaning spills, reactor vessels, or storage tanks), wear an SCBA. *Warning! Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.* If respirators are used, OSHA requires a written respiratory protection program that includes at least: medical certification, training, fit-testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.

Protective Clothing/Equipment: Wear chemically protective gloves, boots, long pants and long sleeves to prevent prolonged or repeated skin contact. Wear protective eyeglasses or chemical safety goggles, per OSHA eye- and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

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. This product is only for industrial use. Do not use this product for such applications as food, pharmaceuticals, and cosmetics, which have the possibility of direct ingestion or exposure to the human body.

Section 9 - Physical and Chemical Properties

Physical State: Liquid Appearance and Odor: Dark, brown and thick Vapor Pressure: N/A Vapor Density (Air=1): N/A Density: 11.4 lbs/gallon Specific Gravity (H₂O=1, at 4 °C): 1.38	Water Solubility: Negligible Boiling Point: N/A Viscosity: 25,000-30,000 cps % Volatile: N/A Evaporation Rate: N/A VOC (gpl): Negligible
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Section 10 - Stability and Reactivity

Stability: Cold Applied Adhesive is stable at room temperature in closed containers under normal storage and handling conditions.

Polymerization: Hazardous polymerization will not occur.

Chemical Incompatibilities: Material polymerizes with contact to water and moisture. Avoid strong oxidants

Conditions to Avoid: N/A

Hazardous Decomposition Products: Thermal decomposition may produce toxic fumes of CO and/or CO₂. Under some conditions, sulfur compounds in hot asphalt may evolve H₂S or SO₂.

Section 11- Toxicological Information

Toxicity Data:*

Eye Effects:

Amino Silane-Severe irritation, causes corneal injury

Acute Inhalation Effects:

Human, inhalation, TC_{Lo}: N/A

Acute Dermal Effects:

Amino Silane
LD₅₀: >2,000 mg/kg

Acute Oral Effects:

Amino Silane
Rat, oral, LD₅₀: >2,000 mg/kg
Asphalt
Rat, oral, LD₅₀: >5,000 mg/kg

Section 12 - Ecological Information

Ecotoxicity: Not Established

Environmental Fate: Not Established

Environmental Degradation: Not Established

Soil Absorption/Mobility: Not Established

Section 13 - Disposal Considerations

Disposal: If this product becomes a waste, it would not be hazardous by RCRA criteria. Place in an appropriate disposal facility in compliance with federal, state and local regulation. This product becomes a firm, synthetic rubber when cured.

Disposal Regulatory Requirements:

Container Cleaning and Disposal: Follow all local, state and federal guidelines.

Section 14 - Transport Information

DOT Transportation Data (49 CFR 172.101):

Shipping Name: Not Regulated
Adhesive

Shipping Symbols: N/A

Hazard Class: Not Regulated

ID No.: N/A

Packing Group: N/A

Label: N/A

Special Provisions (172.102):N/A

Packaging Authorizations

a) **Exceptions:** 173. N/A

b) **Non-bulk Packaging:** 173.N/A

c) **Bulk Packaging:** 173.N/A

Quantity Limitations

a) **Passenger, Aircraft, or Railcar:** N/A

b) **Cargo Aircraft Only:** N/A

Vessel Stowage Requirements

a) **Vessel Stowage:** N/A

b) **Other:** N/A

Section 15 - Regulatory Information**EPA Regulations:**

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

RCRA Hazardous Waste Classification (40 CFR 261.): N/A

CERCLA Hazardous Substance (40 CFR 302.4) unlisted specific per RCRA, Sec. 3001; CWA, Sec. 311 (b)(4); CWA, Sec. 307(a), CAA, Sec. 112

CERCLA Reportable Quantity (RQ), N/A

SARA 311/312 Codes: Immediate (Acute) Health Hazard. (Possible Irritant)

SARA Toxic Chemical (40 CFR 372.65): Not listed

SARA EHS (Extremely Hazardous Substance) (40 CFR 355): Not listed,

OSHA Regulations:

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

OSHA Specifically Regulated Substance (29CFR 1910.)N/A

OSHA (29 CFR 1910.1200): Irritant

State Regulations:

California Proposition 65: This product contains no levels of listed substances, which the state of California has found to cause cancer, birth defects, or other reproductive harm.

Section 16 - Other Information

Prepared By: Research and Development

Revision Notes: Added VOC content to section 9.

Additional Hazard Rating Systems:

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