Material Safety Data Sheet

V350 IN-SEAM SEALANT **MSDS No. 302188**

Date of Preparation: 09/01/2008 Revision: 012

Section 1 - Chemical Product and Company Identification

Product/Chemical Name: V-350 IN-SEAM SEALANT
Chemical Formula: Mixture
General Use: In-Seam Seal
Manufacturer: Versico, LLC, 1285 Ritner Highway, Carlisle, PA 17013, Phone: 800-992-7663
24-Hour 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 is swallowed and enters airways
Danger – May damage fertility and 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

HMIS	
H	1
F	4
R	0
PPE†	--

†Sec. 8

Potential Health Effects

Primary Entry Routes: Eye contact, ingestion, inhalation, skin contact.

Acute Effects

Inhalation: May cause skin, eye, nose, and/or throat irritation on short-term exposure to vapor. Aspiration into lungs can cause chemical pneumonitis, which can be fatal. Overexposure may result in headache, dizziness, fatigue, nausea, possible unconsciousness, and even asphyxiation.

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.

Ingestion: Ingestion can cause gastrointestinal irritation.

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

Medical Conditions Aggravated by Long-Term Exposure:

Chronic Effects: 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. Repeated exposure to Toluene has been associated with high frequency hearing loss based on animal tests.

Section 3 – Ingredient Information

Hazardous Ingredients	**CAS Number**	**% wt**
Toluene	108-88-3	10-30
Aliphatic Petroleum Distillate	64742-89-8	7-13
Calcium Carbonate (Limestone)	1317-65-3	>3
Additional Ingredients	**CAS Number**	**% wt**
Ethylene-Butylene Terpolymer	66070-58-4	
Hydrated Amorphous Silica	63231-67-4	
Hydrocarbon Resin	Proprietary	
Hydrous Clay	Proprietary	
Paraffinic Process Oil	Proprietary	
Severely Hydrotreated Naphthenic Process Oil	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 material contains Toluene.
Special Precautions/Procedures: Whenever possible, remove the worker from the source of contamination.

Section 5 - Fire-Fighting Measures

Flash Point: 40°F (4.4°C)
Flash Point Method: TCC
Autoignition Temperature: >1000°F (>537°C)
LEL: 1.0
UEL: 7.0

Flammability Classification: Ignition can occur when this product is exposed to heat, Division 2 sparks, or flame.
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: 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 flashback. 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-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

Personal Precautions: Use personal protection recommended in Section 8.
Spill /Leak Procedures: Remove all sources of ignition. Avoid breathing vapors. Use self-contained breathing apparatus in enclosed areas. Ventilate area. Contain and remove with inert absorbent materials and non-sparking tools. For large spills, dike far ahead of liquid spill for later disposal. Do not release into sewers or waterways.
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, which may contain residual product and solvent vapors that may ignite explosively.

Section 8 - Exposure Controls / Personal Protection

Hazardous Ingredients:

	OSHA PEL		ACGIH TLV		NIOSH REL		NIOSH
Ingredient	**TWA**	**STEL**	**TWA**	**STEL**	**TWA**	**STEL**	**IDLH**
Toluene	200 ppm	150 ppm	50 ppm	None estab.	100 ppm	150 ppm	500 ppm
Aliphatic Petroleum Distillate	300 ppm	400 ppm	300 ppm	None estab.	350 ppm	None estab.	None estab.
Calcium Carbonate (Limestone)	15, 5 mg/m^3 [a]	None estab.	10 mg/m [b]	None estab.	10, 5 mg/m^3 [a]	None estab.	None estab.

[a] Total dust; Respirable fraction, respectively.
[b] Inhalable (total) particulate matter containing no asbestos and <1% crystalline silica.

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.
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 sealant contact. Long sleeves, long trousers to protect skin from sealant 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: Paste
Appearance and Odor: Neutral color paste, solvent odor
Odor Threshold: Not available
Vapor Pressure: 22 mm Hg at 20°C (77°F)
Vapor Density (Air=1): 3.2
Specific Gravity (H_2O=1, at 4°C/39°F): 1.11 – 1.14

pH: Not available
Water Solubility: <0.10 @ 20°C (77°F)
Boiling Point(°C): 111°C (231.8°F)
Freezing/Melting Point(°C): -139°C (-218.2°F)
% Volatile: 20-24
Evaporation Rate(nBuAc=1): 2
VOC: 230 – 255 gpl
Flash Point: 40°F (4.4°C)
Flash Point Method: TCC
Autoignition Temperature: >1000°F (>537°C)
LEL: 1.0
UEL: 7.0

Section 10 - Stability and Reactivity

Stability: Stable under normal conditions.
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: Toxic gases or vapors, such as carbon dioxide or oxides of nitrogen, may be released in a fire.

Section 11- Toxicological Information

Toxicity Data:

This product has not been tested. No data available.

Section 12 - Ecological Information

Ecotoxicity: No data available
Environmental Fate: No data available
Environmental Degradation: No data available
Soil Absorption/Mobility: No data available

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
Shipping Symbols: Flammable
Hazard Class: 3
ID No.: UN1133
Packing Group: II
Label: Red Flammable Liquid label required for 5 gallon pails.
Special Provisions (172.102): 139, 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: 60 L

Vessel Stowage Requirements
a) Vessel Stowage: B
b) Other: --

Section 15 - Regulatory Information

EPA Regulations:

RCRA Hazardous Waste Number (40 CFR 261.33): Toluene, CAS #108-88-3, RCRA Code U220

RCRA Hazardous Waste Classification (40 CFR 261.31): Not classified

CERCLA Hazardous Substance (40 CFR 302.4): Toluene, CAS #108-88-3, RQ 1000 lb

CERCLA Reportable Quantity (RQ): Materials with a "listed" RQ may be reportable as an "unlisted hazardous substance". See 40 CFR 302.5 (b).

SARA 313 Components (40 CFR 372.65) Toluene, CAS #108-88-3, 10-30%

SARA Toxic Release Chemicals: Toluene, CAS #108-88-3, Concentration: 1.0%, Reporting Threshold: Standard

OSHA Regulations:

Clean Water Act Hazardous Substances: Toluene, CAS #108-88-3, RQ 1000 lb

Clean Air Act SOCMI Chemicals: Toluene, CAS #108-88-3

Clean Air Act Hazardous Air Pollutants: Toluene, CAS #108-88-3, HAP Code XOV

OSHA, IARC, NTP Carcinogens: Hydrous Clay, CAS #12174-11-7, IARC Rating: 2B – This agent is possibly carcinogenic to humans.

NIOSH Recommendations: Calcium Carbonate, CAS #1317-65-3, NIOSH/OSHA Guidelines: 95-121

State Regulations:

California Proposition 65 Chemicals:

Hydrous Clay, CAS #12174-11-7, Code: C
Toluene, CAS #108-88-3, Code: D

Delaware Air Quality Management List: Toluene, CAS #108-88-3, DRQ: 1000, State: Y

Massachusetts Hazardous Substances List:

Calcium Carbonate (Limestone), CAS #1317-65-3, Code: 4
Severely Hydrotreated Naphthenic Process Oil, CAS #64742-18-3, Codes: 1 *****E*C*
Toluene, CAS #108-88-3, Codes: 2, 4, 5, 6, F7, F8, F9

Michigan Critical Materials Register: Toluene, CAS #108-88-3, Report Code: --, Class: --

Minnesota Hazardous Substances List:

Calcium Carbonate (Limestone), CAS #1317-65-3, Code: A, Hazards: --, Carcinogen: No
Toluene, CAS #108-88-3, Codes: ANO, Hazards: Skin, Carcinogen: No

New Jersey RTK Hazardous Substances List: Toluene, CAS #108-88-3, Substance #: 1866, DOT #: 1294

New York List of Hazardous Substances: Toluene, CAS #108-88-3, RQ-Air: 1000, RQ-Land: 1, Notes: None

Pennsylvania Hazardous Substances List:

Calcium Carbonate (Limestone), CAS #1317-65-3, Code: --
Toluene, CAS #108-88-3, Code: E (Environmental Hazard)

Washington Permissible Exposure Limits for Air Contaminants:

Chemical Name	CAS #	TWA (ppm)	TWA (mg)	STEL (ppm)	STEL (mg)	Ceiling (ppm)	Ceiling (mg)	Skin
Calcium Carbonate (Limestone)	1317-65-3	--	10	--	--	--	--	--
Toluene	108-88-3	100	375	150	560	--	--	--

Section 16 - Other Information

Prepared By: Research & Development
Revision Notes: General Revision - Formatting Changes

Additional Hazard Rating Systems:

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