



SAFETY DATA SHEET

Revision Date: 8/27/2015
SDS Type: Butyl Tape

Section 1 – Identification

Product Name: **VB100**

Product Description: Heat Curable, Butyl Sealant Tape

Recommended Use: Primarily designed for use in sealing plastic films to molds during vacuum forming of composite parts.

Manufacturer: **deVan Sealants, Inc.**
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Section 2 – Hazard Identification

GHS Classification:	Skin irritation:	Category 2
	Eye irritation:	Category 2A
	Carcinogenicity :	Category 1B
	Specific target organ toxicity	
	– repeated exposure (eyes, skin):	Category 2
	Short-term (acute) aquatic hazard:	Category 3
	Long-term (chronic) aquatic hazard:	Category 3

GHS Label Element:



Signal Word: **Danger**

Hazard Statements: H315 Causes skin irritation.
H319 Causes serious eye irritation.
H350 May cause cancer via inhalation.
H373 May cause damage to organs (eyes, skin) through prolonged or repeated exposure.
H402 Harmful to aquatic life.
H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements: Prevention:
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P264 Wash hands and skin contact areas thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P273 Hazardous to the aquatic environment, acute and long-term hazard.
P280 Wear protective gloves.

Response:
P301 + P312 + P330 + P331 IF SWALLOWED: Call a doctor if you feel unwell. Rinse mouth. Do not induce vomiting.
P302 + P313 + P332 + P352 + P362 + P364 IF ON SKIN: Get medical advice. If skin irritation occurs: Get medical attention. Wash with plenty of soap and water. Difficult to remove material may require the use of mineral spirits to remove residue. Take off contaminated clothing and wash it before reuse.
P305 + P337 + P338 + P351 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
P308 + P313 if exposed or concerned, get medical advice.
P314 Get medical attention if you feel unwell.

Storage:
P405 Store locked up.

Disposal
P501 Dispose of contents in accordance with local/regional/national regulations (see Section 13 for specifics).

Other Hazards: None known.

Section 3 – Composition / Information on Ingredients

Chemical Name	CAS Number	Weight %
Limestone	1317-65-3	30-40%
Butene, homopolymer	9003-29-6	20-30%
Phenolic resin	Proprietary	1-5%
Calcium oxide	1305-78-8	<2%
Zinc oxide	1314-13-2	<2%
Titanium dioxide	13463-67-7	<2%

Section 4 – First Aid Measures

Eye:	Flush with water for 15-minutes. Seek medical attention if mechanical irritation occurs.
Skin:	Remove from skin and wash with soap and water. Difficult to remove material may require the use of mineral spirits to remove residue. Get medical attention if irritation develops.
Inhalation:	Not applicable.
Ingestion:	Do not induce vomiting. Get medical attention immediately.
Most important symptoms and effects, acute and delayed:	May cause eye and skin irritation. May cause damage to skin through prolonged or repeated exposure.
Physicians:	Treat according to the patient's condition and specifics of exposure.

Section 5 – Fire Fighting Measures

Suitable extinguishing media:	For small fires use carbon dioxide (CO ₂), dry chemical or water spray. For large scale fires, use dry chemical, foam or water spray.
Hazardous combustion products:	Carbon monoxide, carbon dioxide, isobutene and other combustion products are possible.
Protective equipment and precautions:	Self-contained breathing apparatus and protective clothing should be worn in fighting large fires. Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep exposed containers cool.

Section 6 – Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:	Use personal protective equipment. Follow safe handling advice and personal protective equipment recommendations.
Environmental precautions:	Prevent further spillage if safe to do so. Keep from discharging into the environment.
Containment / Clean-up:	Wipe or scrape up and contain for salvage or disposal. Dispose of according to state and local laws.

Section 7 – Handling and Storage

Handling:	Wash hands or exposed areas thoroughly after handling and prior to eating, drinking or smoking. Use personal protective equipment
Storage:	Normal warehouse conditions are acceptable. Keep containers dry.

Section 8 – Exposure Controls / Personal Protection

Exposure Guidelines:

Chemical Name	CAS Number	Type	Value
Limestone	1317-65-3	ACGIH	10 mg/m ³ total dust 3 mg/m ³ respirable fraction
		OSHA PEL	15 mg/m ³ total dust 5 mg/m ³ respirable fraction
Butene, homopolymer	9003-29-6	ACGIH	No established limits
		OSHA	No established limits
Phenolic resin	Proprietary	ACGIH TWA	No established limits
		OSHA PEL	No established limits
Calcium oxide	1305-78-8	ACGIH TWA	2 mg/m ³
		OSHA PEL	5 mg/m ³
Zinc oxide	1314-13-2	ACGIH TWA	2 mg/m ³ respirable fraction
		OSHA PEL	5 mg/m ³ respirable fraction
Titanium dioxide	13463-67-7	ACGIH TLV	10 mg/m ³
		OSHA PEL	15 mg/m ³ total dust

Engineering Controls: Local and general ventilation are recommended.

Personal Protective Equipment:



Eye protection: Safety glasses recommended.

Skin and body protection: Gloves recommended to reduce exposure. Suitable gloves include cotton, leather, nitrile rubber, natural rubber or neoprene rubber. Wear appropriate clothing such as long sleeves and pants to reduce exposure

Respiratory protection: None required if local ventilation is adequate. Where concentrations are above recommended limits as determined by air sampling or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators.

Section 9 – Physical and Chemical Properties

Appearance: Yellow colored, tacky solid

Odor: Faint, mild odor

Odor threshold: Not determined

pH: Not determined

Freezing/melting point:	Not determined
Boiling point and range:	Not determined
Flash point:	Not determined
Evaporation rate:	Not determined
Flammability:	Not classified as a flammable hazard
Lower / Upper flammability:	Not determined
Vapor pressure @ 25°C:	Not determined
Vapor density:	Not determined
Specific gravity:	1.20 g/cm ³
Solubility:	Not determined
Partition coefficient (n-octanol/water):	Not determined
Autoignition temperature:	Not determined
Decomposition temperature:	>205°C (400°F)
Viscosity:	Not determined

Section 10 – Stability and Reactivity

Reactivity:	Not reactive.
Chemical stability:	Stable
Hazardous reaction possibility:	Hazardous reactions or polymerization will not occur.
Conditions to Avoid:	None.
Incompatible materials:	Avoid contact with strong oxidizers.
Hazardous decomposition products:	Carbon monoxide, carbon dioxide, isobutene and other combustion products are possible.

Section 11 – Toxicological Information

Likely routes of exposure: Skin contact
Eye contact
Ingestion

Acute toxicity: Product (mixture calculation method)
Oral: LD₅₀ >9000 mg/kg
Dermal: LD₅₀ >10,000 mg/kg
Inhalation: LD₅₀ >15 mg/L

Ingredients

Limestone

Oral: LD₅₀ 6450 mg/kg
Dermal: LD₅₀ No data
Inhalation: LD₅₀ No data

Butene, homopolymer

Oral: LD₅₀ >34,600 mg/kg
Dermal: LD₅₀ >10,250 mg/kg (rabbit)
Inhalation: LD₅₀ >17.3 mg/L (mist)

Phenolic resin

Oral: LD₅₀ No data
Dermal: LD₅₀ No data
Inhalation: LD₅₀ No data

Calcium oxide

Oral: LD₅₀ No data
Dermal: LD₅₀ No data
Inhalation: LD₅₀ No data

Zinc oxide

Oral: LD₅₀ 15,000 mg/kg
Dermal: LD₅₀ No data
Inhalation: LD₅₀ >5.7 (mouse)

Titanium dioxide

Oral: LD₅₀ >24,000 mg/kg
Dermal: LD₅₀ >10,000 mg/kg (rabbit)
Inhalation: LD₅₀ >6.82 mg/L

Skin corrosion / irritation: Product
No data available.

Ingredients

Butene, homopolymer

Causes mild skin irritation.

Phenolic resin
Causes mild skin irritation.

Calcium oxide
Causes severe skin burns and eye damage.

Titanium dioxide
Causes mild skin irritation.

Eye damage / irritation:

Product
No data available.

Ingredients
Butene, homopolymer
Causes eye irritation.

Phenolic resin
Causes eye irritation.

Calcium oxide
Causes serious eye damage.

Zinc oxide
Causes eye irritation.

Titanium dioxide
Causes eye irritation.

Respiratory / skin sensitization: Not classified based on available information.

Mutagenicity: Not classified based on available information.

Carcinogenicity:

Product
No data available.

Ingredients
Phenolic resin
Phenolic resin contains trace amounts of formaldehyde which is classified as a carcinogen by OSHA. It is listed as a Group 2A (possibly carcinogenic) to humans by IARC. NTP classifies formaldehyde gas as reasonably anticipated to be a human carcinogen. This product as a whole contains <25 ppm formaldehyde.

Titanium dioxide
Suspected of causing cancer via inhalation.
This product contains >0.1% titanium dioxide which is listed as a Group 2B (possibly carcinogenic) by IARC. Not classified by NTP or OSHA.

Reproductive toxicity: Not classified based on available information.

STOT – single exposure: Not classified based on available information.

STOT – repeated exposure: Product
No data available.

Ingredients

Butene, homopolymer

May cause damage to organs (skin) through prolonged or repeated exposure.

Calcium oxide

Causes damage to organs through repeated exposure.

Aspiration hazard: Not classified based on available information.

Section 12 – Ecological Information

Ecotoxicity: Product
No data available on the product as a whole.
Based on classification of mixtures, the product would be classified:
Short-term: Acute 3, Harmful to aquatic life.
Long-term: Chronic 3, Harmful to aquatic life with long lasting effects.

Ingredients

Zinc oxide

Short-term: Very toxic to aquatic life.

Long-term: Very toxic to aquatic life with long lasting effects.

Persistence and degradability: No data available.

Bioaccumulative potential: No data available.

Mobility in soil: No data available.

Other adverse effects: This product does not contain any of the controlled substances listed in the Annexes to the Montreal Protocol at concentrations of $\geq 0.1\%$.

Section 13 – Disposal Considerations

Disposal methods: This product has been evaluated for RCRA hazard class (40 CFR 261) characteristics and does not meet the criteria of hazardous waste if discarded in its purchased form. Do not dispose material into any storm water or sewage system. State or local laws may impose additional regulatory requirements regarding disposal.

Packaging disposal: Packaging contaminated with butyl sealant should be disposed of in accordance with local regulations. Clean, empty packaging should be taken to an approved waste handling site for recycling or disposal.

Section 14 – Transport Information

DOT (49 CFR 172.101):	Not subject to DOT regulations.
UN number:	Not regulated as a dangerous good.
UN proper shipping name:	Not regulated as a dangerous good.
Hazard class:	Not applicable.
Packing group:	Not applicable.
Marine pollutant:	No.
Transport in bulk:	Not applicable for product as supplied, according to Annex II of MARPOL 73/78 and the IBC Code.
Ocean Shipment (IMDG):	Not subject to IMDG code.
Air shipment (IATA):	Not subject to IATA regulations.
Special precautions:	Not applicable.

Section 15 – Regulatory Information

Contents of this MSDS comply with OSHA Hazard Communication Standard 29 CFR 1910.1200.

TSCA Status:	All chemical substances in this product are either listed or exempt from listing on the TSCA Inventory.	
SARA 302:	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.	
SARA 304:	This material does not contain any extremely hazardous substances with SARA Title III, Section 304 reportable quantities.	
SARA 311/312 hazards:	Chronic health hazard	
SARA 313:	This material contains the following chemical components with known CAS numbers that exceed the threshold (de minimis) reporting levels established by SARA, Title III, Section 313:	
	Zinc oxide	CAS 1314-13-2 <2% by weight
California Proposition 65:	WARNING: This product contains a chemical known to the State of California to cause cancer:	
	Crystalline silica	CAS 14808-60-7 <0.05% by weight
	Ethyl benzene	CAS 100-41-4 <0.01% by weight
	Formaldehyde	CAS 50-00-0 <25 ppm
	Cadmium	CAS 7440-43-9 <15 ppm
	Lead	CAS 7439-92-1 <15 ppm

Section 16 – Other Information

NFPA:



HMIS:

HEALTH	1
FLAMMABILITY	1
PHYSICAL HAZARD	0

Abbreviations and acronyms:

ACGIH – American Conference of Governmental Industrial Hygienists
CAS – Chemical Abstracts Service
CFR – Code of Federal Regulations
DOT – Department of Transportation
GHS – Globally Harmonized System
HMIS – Hazardous Materials Identification System
IATA – International Air Transport Association
IARC – International Agency for Research on Cancer
IBC – Intermediate Bulk Container
IMDG – International Maritime Dangerous Goods
LD₅₀ – Lethal Dose for 50 percent of exposed individuals
MARPOL – International Convention for the Prevention of Pollution from Ships (Maritime Pollution)
mppcf – million parts per cubic foot
MSDS – Material Safety Data Sheet
MSHA – Mine Safety and Health Administration
NFPA – National Fire Protection Association
NIOSH – National Institute for Occupational Safety and Health
NTP – National Toxicology Program
OSHA – Occupational Safety and Health Administration
PEL – Permissible Exposure Level
ppm – Parts per million
RCRA – Resource Conservation and Recovery Act of 1976
SARA – Superfund Amendments and Reauthorization Act
SDS – Safety Data Sheet
STOT – Specific Target Organ Toxicity
TSCA – Toxic Substance Control Act of 1976
UN – United Nations

Prepared by:

deVan Sealants, Inc.

Date:

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These data are offered in good faith as typical values and not as product specifications. No warranty, either expressed or implied is made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate. It is the responsibility of the user to comply with all federal, state and local laws and regulations.