



# SAFETY DATA SHEET

Revision Date: 8/12/2015  
SDS Type: Butyl Tape

## Section 1 – Identification

Product Name: **810.11**

Product Description: Highway Reflector Adhesive

Recommended Use: A high-strength, instant grab adhesive used for attaching reflective lenses to pavement lane markers.

Manufacturer: **deVan Sealants, Inc.  
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P.O. Box 470375  
St. Louis, Missouri 63147  
USA**

Phone: +1 314-383-1941

Fax: +1 314-383-6491

24-hour Emergency Contact: ChemTel  
USA: 800-255-3924  
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## Section 2 – Hazard Identification

GHS Classification: Acute toxicity (dermal) Category 5  
Skin irritation: Category 3  
Eye irritation: Category 2B  
Specific target organ toxicity  
– repeated exposure (skin) Category 2

GHS Label Element:



Signal Word: Warning

Hazard Statements: H313 May be harmful in contact with skin.  
H316 Causes mild skin irritation.  
H320 Causes eye irritation.  
H373 May cause damage to organs (skin) through prolonged or repeated exposure.

Precautionary Statements: Prevention:  
P264 Wash hands and skin contact areas thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.

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.  
P314 Get medical attention if you feel unwell.

Storage:  
None

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	50-60%
Butene, homopolymer	9003-29-6	10-20%
Precipitated calcium carbonate	471-34-1	1-10%
Carbon black	1333-86-4	1-2%

### 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<sub>2</sub>), 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 <sup>3</sup> total dust 3 mg/m <sup>3</sup> respirable fraction
		OSHA PEL	15 mg/m <sup>3</sup> total dust 5 mg/m <sup>3</sup> respirable fraction

Butene, homopolymer	9003-29-6	ACGIH	No established limits
		OSHA	No established limits
Precipitated calcium carbonate	471-34-1	ACGIH TLV	10 mg/m <sup>3</sup>
Carbon black	1333-86-4	ACGIH TLV	3.0 mg/m <sup>3</sup> inhalable
		OSHA PEL	3.5 mg/m <sup>3</sup>

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:	Black, 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:	1.42 g/cm <sup>3</sup>
Solubility:	Not determined
Partition coefficient (n-octanol/water):	Not determined
Autoignition temperature:	Not determined
Decomposition temperature:	>200°C (392°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:	<u>Product</u> (mixture calculation method) Oral: LD <sub>50</sub> >6000 mg/kg Dermal: LD <sub>50</sub> >4300 mg/kg Inhalation: LD <sub>50</sub> >6 mg/L  <u>Ingredients</u> Limestone Oral: LD <sub>50</sub> 6450 mg/kg Dermal: LD <sub>50</sub> No data Inhalation: LD <sub>50</sub> No data

Butene, homopolymer  
Oral: LD<sub>50</sub> >34,600 mg/kg  
Dermal: LD<sub>50</sub> >10,250 mg/kg (rabbit)  
Inhalation: LD<sub>50</sub> >17.3 mg/L (mist)

Precipitated calcium carbonate  
Oral: LD<sub>50</sub> >5000 mg/kg  
Dermal: LD<sub>50</sub> No data  
Inhalation: LD<sub>50</sub> No data

Carbon black  
Oral: LD<sub>50</sub> >8000 mg/kg  
Dermal: LD<sub>50</sub> No data  
Inhalation: LD<sub>50</sub> No data

Skin corrosion / irritation: Product  
No data available.

Ingredients  
Butene, homopolymer  
Causes mild skin irritation.

Carbon black  
Causes mild skin irritation.

Eye damage / irritation: Product  
No data available.

Ingredients  
Butene, homopolymer  
Causes eye irritation.

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

Mutagenicity: Not classified based on available information.

Carcinogenicity: Not classified based on available information.

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.

Aspiration hazard: Not classified based on available information.

## Section 12 – Ecological Information

Ecotoxicity: No data available.

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 does not contain any chemical components with known CAS numbers that exceed the threshold (de minimis) reporting levels established by SARA, Title III, Section 313.
- California Proposition 65: **WARNING:** This product contains a chemical known to the State of California to cause cancer:  
Crystalline silica, CAS 14808-60-7, <0.06%

## Section 16 – Other Information

NFPA:



HMIS:

<b>HEALTH</b>	<b>1</b>
<b>FLAMMABILITY</b>	<b>1</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>

- 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
  - LD<sub>50</sub> – 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  
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.

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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.