# SAFETY DATA SHEET

Revision Date: 8/28/2015
SDS Type: Silicone

## Section 1 – Identification

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| Product Name: | **195 Silicone** |
| Product Description: | Neutral Cure Silicone Sealant |
| Recommended Use: | A neutral cure silicone for bonding and sealing a variety of substrates including aluminum, wood, glass, rubber, coated surfaces and most common construction materials. |
| Manufacturer: | **deVan Sealants, Inc.**<br>**6301 Prescott Avenue**<br>**P.O. Box 470375**<br>**St. Louis, Missouri 63147**<br>**USA** |
| Phone: | +1 314-383-1941 |
| Fax: | +1 314-383-6491 |
| 24-hour Emergency Contact: | ChemTel<br>USA: 800-255-3924<br>International: +01 813-248-0585 |

## Section 2 – Hazard Identification

GHS Classification:

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|---|---|
| Eye irritation: | Category 2 |
| Skin sensitization: | Category 1 |
| Reproductive toxicity: | Category 2 |
| Specific target organ toxicity – repeated exposure (cardiovascular, hematological): | Category 2 |

GHS Label Element:

Signal Word: Warning

Hazard Statements:

H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H361 Suspected of damaging fertility or the unborn child.
H373 May cause damage to organs (cardiovascular, hematological) through prolonged or repeated exposure.

Precautionary Statements:

Prevention:
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P261 Avoid breathing dust and fumes.
P264 Wash hands and skin contact areas thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves, clothing and eye protection.

Response:
P302 + P313 + P333 + P352 + P362 + P364 IF ON SKIN: Get medical advice. If skin irritation or rash 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.
P304 + P311 + P340 IF INHALED: Call a doctor. Remove person to fresh air and keep comfortable for breathing.
P305 + P313 + P337 + P338 + P351 IF IN EYES: Get medical advice. 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 % |
|---|---|---|
| Methyloximesilane | Proprietary | 1-3% |
| Vinyloximesilane | Proprietary | <1% |
| Alkoxysilane | Proprietary | <1% |
| Methylethylketoxime (impurity) | 96-29-7 | <1% |
| Octamethylcyclotetrasiloxane (impurity) | 556-67-2 | <1% |

## Section 4 – First Aid Measures

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| Eye: | Flush with water for 15-minutes. Remove contact lenses if present and easy to do. Get medical attention if irritation develops and persists. |
| Skin: | Remove from skin and wash with soap and water. If skin irritation or rash occurs, get medical advice/attention. Take off contaminated clothing and wash before reuse. |
| Inhalation: | Move to fresh air. Call a physician if symptoms develop or persist. |
| Ingestion: | Rinse mouth. Do not induce vomiting. Get medical attention immediately. |
| Most important symptoms and effects, acute and delayed: | Dermatitis. Rash. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling and blurred vision. May cause an allergic skin reaction. Prolonged exposure may cause chronic effects. |
| Physicians: | Treat according to the patient's condition and specifics of exposure. |

## Section 5 – Fire Fighting Measures

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| 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: | Nitrogen oxides 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

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| Personal precautions, protective equipment and emergency procedures: | Use personal protective equipment. Follow safe handling advice and personal protective equipment recommendations. Keep unnecessary personnel away. Do not touch or walk through spilled material. |
| 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: Do not handle until all safety precautions have been read and understood. Provide adequate ventilation. Do not breathe mist or vapor. Avoid contact with eyes or skin. Use care in handling and storage. Obtain special instructions before use. Use personal protective equipment. Wash hands or exposed areas thoroughly after handling and prior to eating, drinking or smoking.

Storage: Normal warehouse conditions are acceptable. Keep containers dry and tightly closed.

## Section 8 – Exposure Controls / Personal Protection

Exposure Guidelines:

| Chemical Name | CAS Number | Type | Value |
|---|---|---|---|
| Methyloximesilane | Proprietary | | Not established |
| Vinyloximesilane | Proprietary | | Not established |
| Alkoxysilane | Proprietary | | Not established |
| Methylethylketoxime (impurity) | 96-29-7 | WEEL TWA | 10 ppm |
| Octamethylcyclotetrasiloxane (impurity) | 556-67-2 | | Not established |

Engineering Controls: Provide adequate local and general ventilation. Provide eyewash station.

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

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| Appearance: | Colorless, translucent, viscous liquid prior to cure. An elastomeric solid after curing. |
| Odor: | Faint, mild odor while wet. None when cured. |
| Odor threshold: | Not determined |
| pH: | Not determined |
| Freezing/melting point: | Not determined |
| Boiling point and range: | Not determined |
| Flash point: | 204.8°F (96°C), closed cup |
| Evaporation rate: | <1 (butyl acetate = 1) |
| Flammability: | Not determined |
| Lower / Upper flammability: | Not determined |
| Vapor pressure @ 25°C: | Negligible |
| Vapor density: | >1 (air = 1) |
| Specific gravity: | 1.03 $g/cm^3$ |
| Solubility: | Not soluble |
| Partition coefficient (n-octanol/water): | Not determined |
| Autoignition temperature: | Not determined |
| Decomposition temperature: | Not determined |
| Viscosity: | ~500,000 cps |

## Section 10 – Stability and Reactivity

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| Reactivity: | Not reactive. |
| Chemical stability: | Stable |
| Hazardous reaction possibility: | Hazardous reactions or polymerization will not occur. |
| Conditions to Avoid: | None. |

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| Incompatible materials: | Avoid contact with strong oxidizers, water and moisture. |
| Hazardous decomposition products: | This product reacts with water, moisture and humid air to evolve methylethylketoxime. Thermal breakdown of this product during fire or very high heat conditions may evolve the following decomposition products: carbon oxides and traces of incompletely burned carbon compounds, silicon dioxide, nitrogen oxides, formaldehyde. |

## Section 11 – Toxicological Information

Likely routes of exposure:
Skin contact
Eye contact
Ingestion
Inhalation

Acute toxicity:

Product
No data available.

Ingredients
Alkoxysilane

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| Oral: | $LD_{50}$ 2995 mg/kg |
| Dermal: | $LD_{50}$ >2000 mg/kg (rabbit) |
| Inhalation: | $LD_{50}$ 1.49 – 2.44 mg/L |

Methylethylketoxime (impurity)

| | |
|---|---|
| Oral: | $LD_{50}$ 930 mg/kg |
| Dermal: | $LD_{50}$ 200 µg/kg (rabbit) |
| Inhalation: | $LD_{50}$ No data |

Skin corrosion / irritation: Not classified based on available information.

Eye damage / irritation:

Product
No data available.

Ingredients
Methyloximesilane
Causes serious eye damage.

Vinyloximesilane
Causes serious eye damage.

Alkoxysilane
Causes serious eye damage.

Methylethylketoxime (impurity)
Causes serious eye damage.

Octamethylcyclotetrasiloxane (impurity)
Causes serious eye damage.

| | |
|---|---|
| Respiratory / skin sensitization: | Product<br>No data available.<br><br>Ingredients<br>Methyloximesilane<br>May cause an allergic skin reaction.<br><br>Vinyloximesilane<br>May cause an allergic skin reaction.<br><br>Alkoxysilane<br>May cause an allergic skin reaction.<br><br>Methylethylketoxime (impurity)<br>May cause an allergic skin reaction. |
| Mutagenicity: | Not classified based on available information. |
| Carcinogenicity: | Not classified based on available information. |
| Reproductive toxicity: | Product<br>No data available.<br><br>Ingredients<br>Alkoxysilane<br>Suspected of damaging fertility or the unborn child.<br><br>Octamethylcyclotetrasiloxane<br>Suspected of damaging fertility or the unborn child via inhalation. |
| STOT – single exposure: | Not classified based on available information. |
| STOT – repeated exposure: | Product<br>No data available.<br><br>Ingredients<br>Methyloximesilane<br>May cause damage to organs (cardiovascular / hematological: hematopoiesis) through prolonged or repeated exposure.<br><br>Vinyloximesilane<br>May cause damage to organs (cardiovascular / hematological: hematopoiesis) through prolonged or repeated exposure. |
| Aspiration hazard: | Not classified based on available information. |

## Section 12 – Ecological Information

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| Ecotoxicity: | Not classified based on available information. |
| 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 ≥ 0.1%. |

## Section 13 – Disposal Considerations

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| 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

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| 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.

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| 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: | Acute health hazard<br>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: | This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. |

## Section 16 – Other Information

NFPA:


HMIS:

| | |
|---|---|
| HEALTH | 2 |
| 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
$LD_{50}$ – Lethal Dose for 50 percent of exposed individuals
MARPOL – International Convention for the Prevention of Pollution from Ships (Maritime Pollution)
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
STEL – Short Term Exposure Limit
STOT – Specific Target Organ Toxicity
TSCA – Toxic Substance Control Act of 1976
UN – United Nations
WEEL – Workplace Environmental Exposure Level

Prepared by: deVan Sealants, Inc.

Date: August 28, 2015

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.