

Safety Data Sheet

Material Name: VG 181 White

Product #:304141-11 oz
304139-2 gal
304138-1 gal

Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name

VG 181 White

Synonyms

Sealant

Chemical Family

Water based mastic

Product Use

Duct sealant

Restrictions on Use

For industrial use only.

Manufacturer Information

Carlisle HVAC Products
900 Hensley Lane
Wylie, TX 75098
www.carlislehvac.com

Medical Emergency:

CHEMTREC (USA): (800) 424-9300

MSDS Assistance – 972-442-6545

Technical Assistance – 888-229-2199

Customer Service – 888-229-0199

Section 2 - HAZARDS IDENTIFICATION

Classification in accordance with paragraph (d) of 29 CFR 1910.1200.

Reproductive Toxicity - Category 1B

Specific Target Organ Toxicity - Single Exposure - Category 1 (body, central nervous system, systemic toxicity, eyes)

Specific Target Organ Toxicity - Repeated Exposure - Category 1 (eyes,central nervous system)

GHS Label Elements**Symbol(s)****Signal Word**

Danger

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Hazard Statement(s)

May damage fertility or the unborn child
Causes damage to organs
Causes damage to organs through prolonged or repeated exposure

Precautionary Statement(s)

Prevention

Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Wear protective gloves/protective clothing/eye protection/face protection
Do not breathe dust/fume/gas/mist/vapours/spray
Wash thoroughly after handling
Do not eat, drink or smoke when using this product

Response

If exposed: Call a POISON CENTER or doctor/physician
Get medical advice/attention if you feel unwell
Specific treatment (see label)

Storage

Store locked up

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations

Other Hazards

No additional information available.

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

| CAS | Component Name | Percent |
|--------------|--|---------|
| Trade Secret | De-foaming agent | 0.1-1 |
| Trade Secret | Nonylphenol polyethylene glycol ether | 0.1-1 |
| Mixture | Polymer, ethyl acrylate and methacrylic acid | 0.1-1 |
| Mixture | Acrylic polymer | 0.1-1 |
| Mixture | Polycarboxylate salt | 0.1-1 |
| 107-21-1 | Ethylene glycol | 0.1-1 |
| Mixture | Fuller's earth | 0.1-1 |
| 1317-65-3 | Limestone | 15-40 |

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| | | |
|--------------|-------------------------|---------|
| Trade Secret | Titanium dioxide | 0.5-1.5 |
| 67-56-1 | Methanol | 1-5 |
| Mixture | 4,4-Dimethyloxazolidine | 0.1-1 |
| 7664-41-7 | Ammonia | 0.1-1 |
| Trade Secret | Aluminium trihydroxide | 10-30 |
| Trade Secret | Polyester fibers | 0.1-1 |

Section 4 - FIRST AID MEASURES

Description of Necessary Measures

If exposed or concerned: Call a POISON CENTER or doctor/physician.

Inhalation

Remove person to fresh air and keep comfortable for breathing. Get medical attention, if needed.

Skin

Wash exposed skin with soap and water. Remove contaminated clothing and wash it before reuse. If skin irritation occurs, get medical advice/attention.

Eyes

Flush eyes with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

Ingestion

Do NOT induce vomiting. If swallowed, get medical attention.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically and supportively.

Most Important Symptoms/Effects

Acute

Causes damage to central nervous system, body, eyes, systemic toxicity.

Delayed

May damage fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure: eyes, central nervous system.

Note to Physicians

Contains. ethylene glycol, methanol

Section 5 - FIRE FIGHTING MEASURES

Extinguishing Media

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Suitable Extinguishing Media

Use dry chemical, carbon dioxide, alcohol-resistant foam or water spray.

Unsuitable Extinguishing Media

None reported.

Special Hazards Arising from the Chemical

Slight fire hazard. Sealed containers may rupture or explode if exposed to heat.

Hazardous Combustion Products

oxides of carbon, oxides of nitrogen, hydrocarbons

Special Protective Equipment and Precautions for Firefighters

Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure. Do not inhale any material or combustion by-products.

Fire Fighting Measures

Remove product from area of fire. Stay upwind and keep out of low areas.

Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Wear personal protective clothing and equipment, see Section 8.

Methods and Materials for Containment and Cleaning Up

Absorb with earth, sand or other non-combustible material and transfer to container. Dike for later disposal. Dispose in accordance with all applicable regulations.

Environmental Precautions

Avoid release to the environment.

Section 7 - HANDLING AND STORAGE

Precautions for Safe Handling

This product contains crystalline silica, which is a known carcinogen: Do not grind or sand. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. KEEP OUT OF REACH OF CHILDREN.

Conditions for Safe Storage, Including any Incompatibilities

Store locked up

Store in a well-ventilated place. Store above 0 C. Store below 45 C. When not in use, keep containers tightly closed. Do not cut, puncture, or weld on or near this container. Keep away from incompatible materials.

Incompatible Materials

Strong acids, strong oxidizing agents

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Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

| | | |
|----------------------------|--|-------------------------------|
| Ethylene glycol | 107-21-1 | |
| ACGIH: | 100 mg/m3 Ceiling aerosol only | |
| Europe: | 20 ppm TWA; 52 mg/m3 TWA | 40 ppm STEL; 104 mg/m3 STEL |
| | Possibility of significant uptake through the skin | |
| Mexico: | 100 mg/m3 Ceiling aerosol | |
| | | |
| Silica, crystalline | 14808-60-7 | |
| ACGIH: | 0.025 mg/m3 TWA respirable fraction | |
| NIOSH: | 0.05 mg/m3 TWA respirable dust | 50 mg/m3 IDLH respirable dust |
| OSHA (US): | ((30)/(%SiO ₂ + 2) mg/m3 TWA) total dust; ((250)/(%SiO ₂ + 5) mppcf TWA) respirable fraction; ((10)/(%SiO ₂ + 2) mg/m3 TWA) respirable fraction | |
| Mexico: | 0.1 mg/m3 TWA LMPE-PPT respirable fraction | |
| | | |
| Limestone | 1317-65-3 | |
| NIOSH: | 10 mg/m3 TWA total dust; 5 mg/m3 TWA respirable dust | |
| OSHA (US): | 15 mg/m3 TWA total dust; 5 mg/m3 TWA respirable fraction | |
| Mexico: | 10 mg/m3 TWA LMPE-PPT | 20 mg/m3 STEL [LMPE-CT] |
| | | |
| Titanium dioxide | Trade Secret | |
| ACGIH: | 10 mg/m3 TWA | |
| NIOSH: | 5000 mg/m3 IDLH | |
| OSHA (US): | 15 mg/m3 TWA total dust | |
| Mexico: | 10 mg/m3 TWA LMPE-PPT as Ti | 20 mg/m3 STEL [LMPE-CT] as Ti |
| | | |
| Methanol | 67-56-1 | |

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| | | |
|--------------------------|--|--|
| ACGIH: | 200 ppm TWA | 250 ppm STEL |
| | Skin - potential significant contribution to overall exposure by the cutaneous route | |
| NIOSH: | 200 ppm TWA; 260 mg/m ³ TWA | 250 ppm STEL; 325 mg/m ³ STEL |
| | Potential for dermal absorption | |
| | 6000 ppm IDLH | |
| Europe: | 200 ppm TWA; 260 mg/m ³ TWA | |
| | Possibility of significant uptake through the skin | |
| OSHA (US): | 200 ppm TWA; 260 mg/m ³ TWA | |
| Mexico: | 200 ppm TWA LMPE-PPT; 260 mg/m ³ TWA LMPE-PPT | |
| | 250 ppm STEL [LMPE-CT]; 310 mg/m ³ STEL [LMPE-CT] | |
| | Skin - potential for cutaneous absorption | |
| | | |
| Ammonia | 7664-41-7 | |
| ACGIH: | 25 ppm TWA | 35 ppm STEL |
| NIOSH: | 25 ppm TWA; 18 mg/m ³ TWA | 35 ppm STEL; 27 mg/m ³ STEL |
| | 300 ppm IDLH | |
| Europe: | 20 ppm TWA; 14 mg/m ³ TWA | 50 ppm STEL; 36 mg/m ³ STEL |
| OSHA (US): | 50 ppm TWA; 35 mg/m ³ TWA | |
| Mexico: | 25 ppm TWA LMPE-PPT; 18 mg/m ³ TWA LMPE-PPT | |
| | 35 ppm STEL [LMPE-CT]; 27 mg/m ³ STEL [LMPE-CT] | |
| | | |
| Silica, amorphous | 7631-86-9 | |
| NIOSH: | 6 mg/m ³ TWA | 3000 mg/m ³ IDLH |
| OSHA (US): | 20 mppcf TWA; ((80)/(% SiO ₂)) mg/m ³ TWA) | |

Biological limit value

There are no biological limit values for any of this product's components.

Engineering Controls

Provide adequate ventilation. Ensure compliance with applicable exposure limits.

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Individual Protection Measures, such as Personal Protective Equipment

Eye/face protection

Wear splash resistant safety goggles with a faceshield. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Skin Protection

Wear appropriate work clothing.

Respiratory Protection

A NIOSH approved air-purifying respirator with an appropriate cartridge or canister may be appropriate under certain circumstances where airborne concentrations are expected to exceed exposure limits.

Glove Recommendations

Wear protective gloves. Recommended material: Hycron(R), neoprene, nitrile.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|------------------------------|-----------------------|---|------------------------------------|
| Appearance | thick white paste | Physical State | solid |
| Odor | Slight, ammonia | Color | white |
| Odor Threshold | Not available | pH | 8 - 9 |
| Melting Point | Not available | Boiling Point | 212 °F |
| Freezing point | Not available | Evaporation Rate | 24 - 28 % volatile |
| Boiling Point Range | Not available | Flammability (solid, gas) | Not available |
| Autoignition | Not available | Flash Point | Not available |
| Lower Explosive Limit | Not available | Decomposition | Not available |
| Upper Explosive Limit | Not available | Vapor Pressure | 17 mmHg (@ 20 °C) |
| Vapor Density (air=1) | <1 | Specific Gravity (water=1) | Not available |
| Water Solubility | soluble | Partition coefficient: n-octanol/water | Not available |
| Viscosity | thixotropic (@ 77 °F) | Solubility (Other) | Not available |
| Density | 1.39 (relative) | VOC | 38 g/L (SCAQMD calculation method) |

Other Information

No additional information available.

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Section 10 - STABILITY AND REACTIVITY

Reactivity

No reactivity hazard is expected.

Chemical Stability

Stable under normal conditions of use.

Possibility of Hazardous Reactions

Hazardous polymerization will not occur.

Conditions to Avoid

Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials.

Incompatible Materials

strong acids, strong oxidizing agents

Hazardous decomposition products

Oxides of carbon, oxides of nitrogen, hydrocarbons

Section 11 - TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Inhalation

May cause adverse effects on the central nervous system.

Skin Contact

May cause mild skin irritation.

Eye Contact

May cause mild eye irritation.

Ingestion

Methanol can produce blindness with onset of symptoms being delayed for 18-24 hours.

Acute and Chronic Toxicity

Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and the following selected endpoints are published:

Ethylene-vinyl acetate copolymer (Trade Secret)

Oral LD50 Rat >2000 mg/kg

Epoxidized soybean oil (Trade Secret)

Oral LD50 Rat >5000 mg/kg

Dermal LD50 Rabbit >20 mL/kg

De-foaming agent (Trade Secret)

Oral LD50 >2000 mg/kg

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Nonylphenol polyethylene glycol ether (Trade Secret)
Oral LD50 Rat 2780 mg/kg

Chlorinated paraffins (Trade Secret)
Oral LD50 Rat >4000 mg/kg

Polymer, ethyl acrylate and methacrylic acid (Mixture)
Oral LD50 Rat >5000 mg/kg
Dermal LD50 Rabbit >5000 mg/kg

Acrylic polymer (Mixture)
Oral LD50 Rat >5000 mg/kg
Dermal LD50 Rabbit >5000 mg/kg

Polycarboxylate salt (Mixture)
Oral LD50 Rat >5000 mg/kg
Dermal LD50 Rabbit >2000 mg/kg

Ethylene glycol (107-21-1)
Oral LD50 Rat 4700 mg/kg
Dermal LD50 Rat 10600 mg/kg
Inhalation LC50 Rat >200 mg/m³ vapor 4 hr

Silica, crystalline (14808-60-7)
Oral LD50 Rat 500 mg/kg

Limestone (1317-65-3)
Oral LD50 Rat 6450 mg/kg

Titanium dioxide (Trade Secret)
Oral LD50 Rat >25 g/kg
Dermal LD50 Rabbit >10 g/kg
Inhalation LC50 Rat >6.82 mg/L 4 hr

Methanol (67-56-1)
Oral LD50 Rat 6200 mg/kg
Inhalation LC50 Rat 22500 ppm 8 h

4,4-Dimethyloxazolidine (Mixture)
Oral LD50 Rat 1037 mg/kg
Dermal LD50 Rabbit >2000 mg/kg
Inhalation LC50 Rat 1.1 mg/L 4 hr

Ammonia (7664-41-7)
Oral LD50 Rat 350 mg/kg
Inhalation LC50 Rat 2000 ppm 4 hr

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Aluminium trihydroxide (Trade Secret)
Oral LD50 Rat >5000 mg/kg

Silica, amorphous (7631-86-9)
Oral LD50 Rat >5000 mg/kg
Dermal LD50 Rabbit >2000 mg/kg
Inhalation LC50 Rat >2.2 mg/L 1 h

Immediate Effects

Causes damage to central nervous system, body, eyes, systemic toxicity.

Delayed Effects

May damage fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure: eyes, central nervous system.

Irritation/Corrosivity Data

May cause mild skin irritation. May cause mild eye irritation.

Respiratory Sensitization

No data available.

Dermal Sensitization

No data available.

Component Carcinogenicity

| | |
|------------------------------|---|
| Chlorinated paraffins | Trade Secret |
| IARC: | Monograph 48 [1990] (Group 2B (possibly carcinogenic to humans)) |
| DFG: | Category 3B (could be carcinogenic for man) |
| OSHA: | Present |
| Ethylene glycol | 107-21-1 |
| ACGIH: | A4 - Not Classifiable as a Human Carcinogen |
| Silica, crystalline | 14808-60-7 |
| ACGIH: | A2 - Suspected Human Carcinogen |
| IARC: | Monograph 100C [2012]; Monograph 68 [1997] (Group 1 (carcinogenic to humans)) |
| NTP: | Known Human Carcinogen (respirable size) |
| DFG: | Category 1 (causes cancer in man, alveola fraction) |

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| | |
|--------------------------|---|
| OSHA: | Present (respirable size) |
| | |
| Titanium dioxide | Trade Secret |
| ACGIH: | A4 - Not Classifiable as a Human Carcinogen |
| IARC: | Monograph 93 [2010]; Monograph 47 [1989] (Group 2B (possibly carcinogenic to humans)) |
| DFG: | Category 3A (could be carcinogenic for man, inhalable fraction with the exception of ultra small particles) |
| OSHA: | Present |
| | |
| Silica, amorphous | 7631-86-9 |
| IARC: | Monograph 68 [1997]; Supplement 7 [1987] (Group 3 (not classifiable)) |

Germ Cell Mutagenicity

No data available.

Reproductive Toxicity

May damage fertility or the unborn child.

Specific Target Organ Toxicity - Single Exposure

central nervous system, body, systemic toxicity, eyes

Specific Target Organ Toxicity - Repeated Exposure

central nervous system, eyes

Aspiration hazard

No data available.

Medical Conditions Aggravated by Exposure

No data available.

Additional Data

No additional information available.

Section 12 - ECOLOGICAL INFORMATION

Ecotoxicity

Avoid release to the environment.

Component Analysis - Aquatic Toxicity

| | |
|----------------------------------|--------------|
| Ethylene-vinyl acetate copolymer | Trade Secret |
|----------------------------------|--------------|

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| | |
|---|--|
| Fish: | LC50 96 hr Cyprinus carpio >1000 mg/kg |
| | |
| Epoxidized soybean oil | Trade Secret |
| Fish: | LC50 48 hr Fish 900 mg/L |
| Algae: | EC50 72 h Desmodesmus subspicatus 8 mg/L IUCLID |
| Invertebrate: | EC50 24 hr Daphnia >100 mg/L |
| | |
| Chlorinated paraffins | Trade Secret |
| Fish: | LC50 96 h Lepomis macrochirus >300 mg/L [static]; LC50 96 h Oncorhynchus mykiss >0.0109 mg/L [flow-through]; LC50 96 h Oncorhynchus mykiss 94.5 - 271 mg/L [static]; LC50 96 h Lepomis macrochirus >0.1 mg/L [flow-through]; LC50 96 h Pimephales promelas >100 mg/L [static] |
| Invertebrate: | EC50 48 hr Daphnia magna 0.0059 mg/L |
| | |
| Polymer, ethyl acrylate and methacrylic acid | Mixture |
| Fish: | LC50 96 hr Pimephales promelas >1000 mg/L |
| Invertebrate: | EC50 48 hr Daphnia magna >1000 mg/L |
| | |
| Ethylene glycol | 107-21-1 |
| Fish: | LC50 96 h Oncorhynchus mykiss 41000 mg/L; LC50 96 h Oncorhynchus mykiss 14 - 18 mL/L [static]; LC50 96 h Lepomis macrochirus 27540 mg/L [static]; LC50 96 h Oncorhynchus mykiss 40761 mg/L [static]; LC50 96 h Pimephales promelas 40000 - 60000 mg/L [static]; LC50 96 h Poecilia reticulata 16000 mg/L [static] |
| Algae: | EC50 96 h Pseudokirchneriella subcapitata 6500 - 13000 mg/L IUCLID |
| Invertebrate: | EC50 48 h Daphnia magna 46300 mg/L IUCLID |
| | |

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| | |
|--------------------------|--|
| Methanol | 67-56-1 |
| Fish: | LC50 96 h Pimephales promelas 28200 mg/L [flow-through]; LC50 96 h Pimephales promelas >100 mg/L [static]; LC50 96 h Oncorhynchus mykiss 19500 - 20700 mg/L [flow-through]; LC50 96 h Oncorhynchus mykiss 18 - 20 mL/L [static]; LC50 96 h Lepomis macrochirus 13500 - 17600 mg/L [flow-through] |
| Ammonia | 7664-41-7 |
| Fish: | LC50 96 h Cyprinus carpio 0.44 mg/L; LC50 96 h Lepomis macrochirus 0.26 - 4.6 mg/L; LC50 96 h Lepomis macrochirus 1.17 mg/L [flow-through]; LC50 96 h Pimephales promelas 0.73 - 2.35 mg/L; LC50 96 h Pimephales promelas 5.9 mg/L [static]; LC50 96 h Poecilia reticulata >1.5 mg/L; LC50 96 h Poecilia reticulata 1.19 mg/L [static] |
| Invertebrate: | LC50 48 h Daphnia magna 25.4 mg/L IUCLID |
| Silica, amorphous | 7631-86-9 |
| Fish: | LC50 96 h Brachydanio rerio 5000 mg/L [static] |
| Algae: | EC50 72 h Pseudokirchneriella subcapitata 440 mg/L IUCLID |
| Invertebrate: | EC50 48 h Ceriodaphnia dubia 7600 mg/L IUCLID |

Persistence and Degradability

No information available for the product.

Bioaccumulative Potential

No information available for the product.

Mobility

No information available for the product.

Other Toxicity

No additional information available.

Section 13 - DISPOSAL CONSIDERATIONS

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Disposal Methods

Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 14 - TRANSPORT INFORMATION

US DOT Information:

UN/NA #: Not regulated

IATA Information:

UN#: Not regulated

TDG Information:

UN#: Not regulated

Section 15 - REGULATORY INFORMATION

U.S. Federal Regulations

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.

| | |
|-----------------|--|
| Ethylene glycol | 107-21-1 |
| SARA 313: | 1 % de minimis concentration |
| CERCLA: | 5000 lb final RQ; 2270 kg final RQ |
| Methanol | 67-56-1 |
| SARA 313: | 1 % de minimis concentration |
| CERCLA: | 5000 lb final RQ; 2270 kg final RQ |
| Ammonia | 7664-41-7 |
| SARA 302: | 500 lb TPQ |
| SARA 313: | 1 % de minimis concentration (includes anhydrous Ammonia and aqueous Ammonia from water dissociable Ammonium salts and other sources, 10% of total aqueous Ammonia is reportable under this listing) |
| CERCLA: | 100 lb final RQ; 45.4 kg final RQ |
| OSHA (safety): | 10000 lb TQ anhydrous); 15000 lb TQ solution, >44% Ammonia by weight) |

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| | |
|-----------|-----------------|
| SARA 304: | 100 lb EPCRA RQ |
|-----------|-----------------|

SARA Section 311/312 (40 CFR 370 Subparts B and C)

Acute Health: Yes Chronic Health: Yes Fire: No Pressure: No Reactivity: No

U.S. State Regulations

The following components appear on one or more of the following state hazardous substances lists:

| Component | CAS | CA | MA | MN | NJ | PA |
|-----------------------|--------------|-----|-----|-----|-----|-----|
| Chlorinated paraffins | Trade Secret | No | Yes | No | No | No |
| Ethylene glycol | 107-21-1 | Yes | Yes | Yes | Yes | Yes |
| Silica, crystalline | 14808-60-7 | No | Yes | Yes | Yes | Yes |
| Limestone | 1317-65-3 | No | Yes | Yes | Yes | Yes |
| Titanium dioxide | Trade Secret | No | Yes | Yes | Yes | Yes |
| Methanol | 67-56-1 | Yes | Yes | Yes | Yes | Yes |
| Ammonia | 7664-41-7 | Yes | Yes | Yes | Yes | Yes |
| Silica, amorphous | 7631-86-9 | Yes | Yes | Yes | Yes | Yes |

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains a chemical known to the state of California to cause cancer

WARNING! This product contains a chemical known to the state of California to cause reproductive/developmental effects

| | |
|---------------------|---|
| Silica, crystalline | 14808-60-7 |
| Carc: | carcinogen , initial date 10/1/88 (airborne particles of respirable size) |
| Titanium dioxide | Trade Secret |
| Carc: | carcinogen , initial date 9/2/11 (airborne, unbound particles of respirable size) |
| Methanol | 67-56-1 |
| Repro/Dev. Tox | Developmental toxicity , initial date 3/16/12 |

Canadian WHMIS Ingredient Disclosure List (IDL)

Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on MSDSs if they are included in products which meet WHMIS criteria specified in the Controlled Products Regulations and are present above the threshold limits listed on the IDL

| | |
|-----------------|----------|
| Ethylene glycol | 107-21-1 |
| | 1 % |

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| Silica, crystalline | 14808-60-7 |
| | 1 % |
| Methanol | 67-56-1 |
| | 1 % |
| Ammonia | 7664-41-7 |
| | 1 % |
| Silica, amorphous | 7631-86-9 |
| | 1 % |

Component Analysis - Inventory

Ethylene-vinyl acetate copolymer (Trade Secret)

| US | CA | EU | AU | PH | JP - ENCS | JP - ISHL | KR - KECI/KECL | KR - TCCA | CN | NZ | MX |
|-----|-----|-----|-----|-----|-----------|-----------|----------------|-----------|-----|-----|-----|
| Yes | DSL | ELN | Yes | Yes | Yes | No | Yes | No | Yes | Yes | Yes |

Epoxidized soybean oil (Trade Secret)

| US | CA | EU | AU | PH | JP - ENCS | JP - ISHL | KR - KECI/KECL | KR - TCCA | CN | NZ | MX |
|-----|-----|-----|-----|-----|-----------|-----------|----------------|-----------|-----|-----|-----|
| Yes | DSL | EIN | Yes | Yes | No | No | Yes | No | Yes | Yes | Yes |

Nonylphenol polyethylene glycol ether (Trade Secret)

| US | CA | EU | AU | PH | JP - ENCS | JP - ISHL | KR - KECI/KECL | KR - TCCA | CN | NZ | MX |
|-----|-----|----|-----|-----|-----------|-----------|----------------|-----------|-----|-----|----|
| Yes | DSL | No | Yes | Yes | Yes | No | Yes | No | Yes | Yes | No |

Chlorinated paraffins (Trade Secret)

| US | CA | EU | AU | PH | JP - ENCS | JP - ISHL | KR - KECI/KECL | KR - TCCA | CN | NZ | MX |
|-----|-----|-----|-----|-----|-----------|-----------|----------------|-----------|-----|-----|-----|
| Yes | DSL | EIN | Yes | Yes | Yes | No | Yes | No | Yes | Yes | Yes |

Polymer, ethyl acrylate and methacrylic acid (Mixture)

| US | CA | EU | AU | PH | JP - ENCS | JP - ISHL | KR - KECI/KECL | KR - TCCA | CN | NZ | MX |
|-----|-----|----|-----|-----|-----------|-----------|----------------|-----------|-----|-----|-----|
| Yes | DSL | No | Yes | Yes | Yes | No | Yes | No | Yes | Yes | Yes |

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Ethylene glycol (107-21-1)

| US | CA | EU | AU | PH | JP - ENCS | JP - ISHL | KR - KECI/KECL | KR - TCCA | CN | NZ | MX |
|-----|-----|-----|-----|-----|-----------|-----------|----------------|-----------|-----|-----|-----|
| Yes | DSL | EIN | Yes | Yes | Yes | No | Yes | No | Yes | Yes | Yes |

Fuller's earth (Mixture)

| US | CA | EU | AU | PH | JP - ENCS | JP - ISHL | KR - KECI/KECL | KR - TCCA | CN | NZ | MX |
|-----|-----|----|-----|-----|-----------|-----------|----------------|-----------|-----|-----|-----|
| Yes | DSL | No | Yes | Yes | No | No | Yes | No | Yes | Yes | Yes |

Silica, crystalline (14808-60-7)

| US | CA | EU | AU | PH | JP - ENCS | JP - ISHL | KR - KECI/KECL | KR - TCCA | CN | NZ | MX |
|-----|-----|-----|-----|-----|-----------|-----------|----------------|-----------|-----|-----|-----|
| Yes | DSL | EIN | Yes | Yes | Yes | No | Yes | No | Yes | Yes | Yes |

Limestone (1317-65-3)

| US | CA | EU | AU | PH | JP - ENCS | JP - ISHL | KR - KECI/KECL | KR - TCCA | CN | NZ | MX |
|-----|-----|-----|-----|-----|-----------|-----------|----------------|-----------|-----|-----|-----|
| Yes | NSL | EIN | Yes | Yes | Yes | No | Yes | No | Yes | Yes | Yes |

Titanium dioxide (Trade Secret)

| US | CA | EU | AU | PH | JP - ENCS | JP - ISHL | KR - KECI/KECL | KR - TCCA | CN | NZ | MX |
|-----|-----|-----|-----|-----|-----------|-----------|----------------|-----------|-----|-----|-----|
| Yes | DSL | EIN | Yes | Yes | Yes | No | Yes | No | Yes | Yes | Yes |

Methanol (67-56-1)

| US | CA | EU | AU | PH | JP - ENCS | JP - ISHL | KR - KECI/KECL | KR - TCCA | CN | NZ | MX |
|-----|-----|-----|-----|-----|-----------|-----------|----------------|-----------|-----|-----|-----|
| Yes | DSL | EIN | Yes | Yes | Yes | No | Yes | No | Yes | Yes | Yes |

4,4-Dimethyloxazolidine (Mixture)

| US | CA | EU | AU | PH | JP - ENCS | JP - ISHL | KR - KECI/KECL | KR - TCCA | CN | NZ | MX |
|-----|-----|-----|-----|-----|-----------|-----------|----------------|-----------|-----|-----|-----|
| Yes | DSL | EIN | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes |

Safety Data Sheet

Material Name: VG 181 White

**Product #:304141-11 oz
304139-2 gal
304138-1 gal**

Ammonia (7664-41-7)

| US | CA | EU | AU | PH | JP - ENCS | JP - ISHL | KR - KECI/KECL | KR - TCCA | CN | NZ | MX |
|-----|-----|-----|-----|-----|-----------|-----------|----------------|-----------|-----|-----|-----|
| Yes | DSL | EIN | Yes | Yes | Yes | No | Yes | No | Yes | Yes | Yes |

Aluminium trihydroxide (Trade Secret)

| US | CA | EU | AU | PH | JP - ENCS | JP - ISHL | KR - KECI/KECL | KR - TCCA | CN | NZ | MX |
|-----|-----|-----|-----|-----|-----------|-----------|----------------|-----------|-----|-----|-----|
| Yes | DSL | EIN | Yes | Yes | Yes | No | Yes | No | Yes | Yes | Yes |

Silica, amorphous (7631-86-9)

| US | CA | EU | AU | PH | JP - ENCS | JP - ISHL | KR - KECI/KECL | KR - TCCA | CN | NZ | MX |
|-----|-----|-----|-----|-----|-----------|-----------|----------------|-----------|-----|-----|-----|
| Yes | DSL | EIN | Yes | Yes | Yes | No | Yes | No | Yes | Yes | Yes |

Section 16 - OTHER INFORMATION

HMIS Rating

Health: 1* Fire: 1 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

NFPA Ratings

Health: 1 Fire: 1 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Summary of Changes

Revision Date: June 1, 2018

Revision Note: General Update

Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™



Safety Data Sheet

Material Name: VG 181 White

**Product #:304141-11 oz
304139-2 gal
304138-1 gal**

- ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH- Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States.

Other Information

Disclaimer:

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