

**\*\*\* Section 1 - Chemical Product and Company Identification \*\*\***

**Product Name:** Corning® Vascade® EX1000 fiber, Corning® 62.5/125 fiber, Corning® InfiniCor® 300 fiber, Corning® InfiniCor® CL™ 1000 fiber, Corning® 50/125 fiber, Corning® InfiniCor® 600 fiber, Corning® InfiniCor® SX+ fiber, Corning® InfiniCor® SXi fiber, Corning® InfiniCor® eSX+ fiber, Corning® SMF-28e® fiber, Corning® SMF-28e® photonic fiber, Corning® MetroCor® fiber, Corning® Vascade® LS+ fiber, Corning® LEAF® fiber, Corning® Vascade® LEAF® fiber, Corning® Submarine LS fiber, Corning® Vascade® L1000 fiber, Corning® Submarine Hybrid optical fiber, Corning® Vascade® S1000 fiber, Corning® Vascade® R1000 fiber solution, Corning® NexCor® fiber, Corning® ClearCurve® single-mode fiber, Corning® ClearCurve® multimode fiber, Corning® SMF-28e+™ fiber, Corning® SMF-28e® XB fiber, Corning® VistaCor® fiber, Corning® SMF-28® ULL fiber

**Chemical Name:** Glass core covered with a urethane acrylate polymer

**Product Use:** light transmission

**Manufacturer Information**

Corning Incorporated - Wilmington Plant  
310 N. College Road  
Wilmington, NC 28405

Phone: (910) 784-7200

Emergency # 24 Hr CHEMTREC U.S. (800) 424-9300  
24 Hr CHEMTREC International (703) 527-3887

**General Comments**

NOTE: CHEMTREC telephone number is to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure, or accident involving chemicals.

**\*\*\* Section 2 - Hazards Identification \*\*\*****Emergency Overview**

This is a non-combustible, non-reactive solid material. It is supplied in the form of a glass filament in a polymer coating. Exposure to glass powder or dusts may be irritating to eyes, nose, and throat. Use methods suitable to fight surrounding fire. Combustion products can include irritating and toxic fumes and gases.

**Hazard Statements**

Dust or powder may be irritating to the eyes, skin, respiratory system and gastrointestinal tract.

**Potential Health Effects: Eyes**

Dust or powder may irritate eye tissue. Rubbing may cause abrasion of cornea. Symptoms can include redness and tearing.

**Potential Health Effects: Skin**

The cured polymer coating has been tested and found to be non-irritating to the skin. No components in this product have been found to be absorbed through the skin.

**Potential Health Effects: Ingestion**

May cause temporary irritation of the throat, stomach, and gastrointestinal tract.

**Potential Health Effects: Inhalation**

Dusts from the grinding of this product may cause irritation of the nose, throat, and respiratory tract. When inhaled in very large amounts, damage to the lung can occur.

**HMIS Ratings: Health: 1 Fire: 0 Physical Hazard: 0 Pers. Prot.:** gloves, goggles required only when cutting and splicing fiber.  
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe \* = Chronic hazard

<b>*** Section 3 - Composition / Information on Ingredients ***</b>
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CAS #	Component	Percent
Not Available	Urethane Acrylate Polymer	<100
65997-17-3	Glass, oxide, chemicals	<100

**Component Related Regulatory Information**

This product may be regulated, have exposure limits or other information identified as the following: Nuisance particulates.

**Component Information/Information on Non-Hazardous Components**

Optical fiber consists of a thin glass filament in a polymer coating. Glass is a solid material produced by combining various raw materials (e.g. oxides, carbonates, etc.), melting these components together, and cooling to a non-crystalline solid having its own unique properties.

Processing of this article may produce dusts or fumes which are considered hazardous under U.S. 29 CFR 1910.1200 (Hazard Communication).

<b>*** Section 4 - First Aid Measures ***</b>
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**First Aid: Eyes**

Eye injuries from glass fibers should be treated by a physician immediately.

**First Aid: Skin**

Abrasions from any cut or ground fibers should be treated promptly with thorough cleansing of the affected area. Seek medical attention for prompt removal of any particles that may be embedded under the skin.

**First Aid: Ingestion**

Seek medical attention if material is ingested.

**First Aid: Inhalation**

If inhaled, remove person to fresh air. If symptoms develop or persist get medical attention.

**First Aid: Notes to Physician**

Sharp edges of glass may cause mechanical injury.

<b>*** Section 5 - Fire Fighting Measures ***</b>
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**General Fire Hazards**

See Section 9 for Flammability Properties.

Coating portion of this material may burn at elevated temperatures.

**Hazardous Combustion Products**

Carbon dioxide, carbon monoxide, various hydrocarbon fragments, phosphorus oxide, and possibly some carbon-containing fragments of the polymer coating.

**Extinguishing Media**

Use methods for the surrounding fire.

**Fire Fighting Equipment/Instructions**

Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

**NFPA Ratings: Health: 1 Fire: 0 Reactivity: 0**

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

**\*\*\* Section 6 - Accidental Release Measures \*\*\***

**Containment Procedures**

None necessary.

**Clean-Up Procedures**

Wear appropriate protective equipment and clothing during clean-up. Collect spilled material using a vacuum cleaner with a HEPA filter.

**Evacuation Procedures**

None necessary.

**Special Procedures**

Spilled fibers tend to create a slipping hazard on hard surfaces.

**\*\*\* Section 7 - Handling and Storage \*\*\***

**Handling Procedures**

Avoid inhalation/contact with dust.

**Storage Procedures**

Store in a dry area.

**\*\*\* Section 8 - Exposure Controls / Personal Protection \*\*\***

**Exposure Guidelines**

**A: General Product Information**

The OSHA air contaminants exposure limits (PELs) are those provided in the 1989 update to 29 CFR 1910.1000. These limits were vacated by OSHA and may not be enforceable.

**B: Component Exposure Limits**

**Glass, oxide, chemicals (65997-17-3)**

- ACGIH: 10 mg/m3 TWA (inhalable particles, recommended); 3 mg/m3 TWA (respirable particles, recommended) (related to Particulates (insoluble or poorly soluble) not otherwise specified (PNOS))
- OSHA (Final): 15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction) (related to Particulates not otherwise regulated)
- OSHA (Vacated): 15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction) (related to Particulates not otherwise regulated)
- Alberta: 10 mg/m3 TWA (total particulate); 3 mg/m3 TWA (respirable particulate) (related to Particulates not otherwise regulated)
- British Columbia: 10 mg/m3 TWA (total dust); 3 mg/m3 TWA (respirable fraction) (related to Particles (insoluble or poorly soluble) not otherwise specified)
- Manitoba: 10 mg/m3 TWA (inhalable particles, recommended); 3 mg/m3 TWA (respirable particles, recommended) (related to Particulates (insoluble or poorly soluble) not otherwise specified (PNOS))
- New Brunswick: 10 mg/m3 TWA (particulate matter containing no asbestos and < 1% crystalline silica, inhalable fraction); 3 mg/m3 TWA (particulate matter containing no asbestos and < 1% crystalline silica, respirable fraction) (related to Particulates not otherwise classified (PNOCC))
- NW Territories: 5 mg/m3 TWA (respirable mass); 10 mg/m3 TWA (total mass) (related to Nuisance particulate)
- Nova Scotia: 10 mg/m3 TWA (inhalable particles, recommended); 3 mg/m3 TWA (respirable particles, recommended) (related to Particulates (insoluble or poorly soluble) not otherwise specified (PNOS))
- Nunavut: 5 mg/m3 TWA (respirable mass); 10 mg/m3 TWA (total mass) (related to Nuisance particulate)

## Material Safety Data Sheet

ID: C-302

**Material Name: Optical Fiber**

- Ontario: 10 mg/m3 TWAEV (inhalable); 3 mg/m3 TWAEV (respirable) (related to Particles (insoluble or poorly soluble) Not Otherwise Specified (PNOS))
- Quebec: 10 mg/m3 TWAEV (total dust, containing no asbestos and less than 1% crystalline silica) (related to Particulates not otherwise classified (PNOC))
- Saskatchewan: 10 mg/m3 TWA; 3 mg/m3 TWA (respirable size) (related to Particulates, n.o.c.)  
20 mg/m3 STEL; 6 mg/m3 STEL (respirable size) (related to Particulates, n.o.c.)

### Engineering Controls

If material is ground, cut, or used in any operation which may generate small particles, use appropriate local exhaust ventilation.

### PERSONAL PROTECTIVE EQUIPMENT

#### Personal Protective Equipment: Eyes/Face

Wear safety glasses with side shields or goggles.

#### Personal Protective Equipment: Skin

Wear leather or other appropriate work gloves, if necessary for type of operation. The use of coveralls is recommended.

#### Personal Protective Equipment: Respiratory

Not normally needed. If permissible levels are exceeded, use NIOSH approved dust respirator.

#### Personal Protective Equipment: General

Use good hygiene practices when handling this material including changing and laundering work clothing after use.

### \* \* \* Section 9 - Physical & Chemical Properties \* \* \*

<p><b>Appearance:</b> Translucent white</p> <p><b>Physical State:</b> Solid</p> <p><b>Vapor Pressure:</b> Not applicable</p> <p><b>Boiling Point:</b> Not applicable</p> <p><b>Solubility (H<sub>2</sub>O):</b> Not applicable</p> <p><b>Softening Point:</b> Not applicable</p> <p><b>Auto Ignition:</b> Not applicable</p> <p><b>Flash Point Method:</b> Not applicable</p> <p><b>Upper Flammability Limit (UFL):</b> Not applicable</p>	<p><b>Odor:</b> Acrylate odor</p> <p><b>pH:</b> Not applicable</p> <p><b>Vapor Density:</b> Not applicable</p> <p><b>Melting Point:</b> Not applicable</p> <p><b>Specific Gravity:</b> Not applicable</p> <p><b>Molecular Weight:</b> Not applicable</p> <p><b>Flash Point:</b> Not applicable</p> <p><b>Lower Flammability Limit (LFL):</b> Not applicable</p> <p><b>OSHA Flammability Classification:</b> Not applicable</p>
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### \* \* \* Section 10 - Chemical Stability & Reactivity Information \* \* \*

#### Chemical Stability

Stable.

#### Chemical Stability: Conditions to Avoid

Keep away from heat and incompatible materials.

#### Incompatibility

Avoid contact with strong oxidizers, strong acids, halogens.

#### Hazardous Decomposition

Carbon dioxide, carbon monoxide, various hydrocarbon fragments, phosphorus oxide, and possibly some carbon-containing fragments of the polymer coating.

#### Possibility of Hazardous Reactions

Will not occur.

**\*\*\* Section 11 - Toxicological Information \*\*\*****Acute Dose Effects****A: General Product Information**

This product contains a thin outer coating of urethane acrylate polymer. Under normal conditions of use the coating is inert. Dusts may cause mechanical irritation to eyes and skin. Ingestion may cause transient irritation of throat, stomach, and gastrointestinal tract. Inhalation may cause coughing, nose and throat irritation, and sneezing. Higher exposures may cause difficulty breathing, congestion, and chest tightness.

**B: Component Analysis - LD50/LC50**

No LD50/LC50's are available for this product's components.

**Epidemiology**

No information available.

**Carcinogenicity****A: General Product Information**

No additional information.

**B: Component Carcinogenicity**

None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP

**Mutagenicity**

No information available.

**Teratogenicity**

No information available.

**Neurological Effects**

No information available.

**Other Toxicological Information**

Under normal conditions of use for this product, the likelihood of inhaling or ingesting amounts necessary for adverse effects to occur is very small.

**\*\*\* Section 12 - Ecological Information \*\*\*****Ecotoxicity****A: General Product Information**

No information available for product.

**B: Component Analysis - Ecotoxicity - Aquatic Toxicity**

No ecotoxicity data are available for this product's components.

**Environmental Fate**

No information available for product.

**\*\*\* Section 13 - Disposal Considerations \*\*\*****US EPA Waste Number & Descriptions****A: General Product Information**

You must test your waste using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes.

**B: Component Waste Numbers**

No EPA Waste Numbers are applicable for this product's components.

**Disposal Instructions**

Waste must be handled in accordance with all applicable regulations. Purchaser is advised to review regulations referenced for applicability as determined by purchaser's use of the product. Glass products may be recycled.

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

**\*\*\* Section 14 - Transportation Information \*\*\***

**International Transportation Regulations**

This product is not regulated as a hazardous material by the United State DOT or Canadian TDG.

**US DOT Information**

**Shipping Name:** Not regulated as a hazardous material.

**TDG Information**

**Shipping Name:** Not regulated as a dangerous good.

**\*\*\* Section 15 - Regulatory Information \*\*\***

**US Federal Regulations**

**A: General Product Information**

All components of this product are on the TSCA Inventory or are exempt from TSCA inventory requirements.

**B: Component Analysis**

None of this product's components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

**State Regulations**

**A: General Product Information**

Other state regulations may apply. Check individual state requirements.

**B: Component Analysis - State**

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

Component	CAS	CA	MA	MN	NJ	PA	RI
Glass, oxide, chemicals (related to Nuisance particulates)	65997-17-3	No	No	Yes	No	No	Yes <sup>1</sup>

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 reproductive/developmental effects.

**Component Analysis - WHMIS IDL**

No components are listed in the WHMIS IDL.

**Additional Regulatory Information**

**A: General Product Information**

RoHS (2002/95/EC) and WEEE (2002/96/EC) Compliance Statement:

This product does not contain lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated biphenyl ethers (includes decabromodiphenyl ethers) in excess of 0.1% (by weight), or cadmium in excess of 0.01% (by weight).

## Material Safety Data Sheet

Material Name: **Optical Fiber**

ID: C-302

### B: Component Analysis - Inventory

Component	CAS #	TSCA	DSL	EINECS
Glass, oxide, chemicals	65997-17-3	Yes	Yes	Yes

### \*\*\* Section 16 - Other Information \*\*\*

#### Other Information

Reasonable care has been taken in the preparation of this information, but Corning makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. Corning makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use.

#### Revision information:

Revision 5.0008, 20-MAY-2009: Name edit.

Revision 5.0007, 08-DEC-2008: Name edit.

Revision 5.0006, 19-NOV-2008: Name edit.

Revision 5.0005, 05-NOV-2008: Name edit.

Revision 5.0004, 04-AUG-2008: RoHS and WEEE compliance statements added.

Revision 5.0003, 03-JUN-2008: Name edit.

Revision 5.0002, 14-MAR-2008: Name edit.

Revision 5.0001, 26-NOV-2007: Phone number update, administrative changes.

Revision 5.0000, 26-MAY-2006: Regulatory update, Product name update.

Revision 4.0000, 23-SEP-2005: Administrative update, Product name update.

Revision 3.0000, 01-JUN-2004: Administrative update. Section 1 revised.

Revision 2.0000, 02-JAN-2004: Consolidation of related optical fiber product MSDS sheets. Sections 1,5,6,7,9,11,16 revised.

Revision 1.0000, 07-AUG-2003: New MSDS.

#### Key/Legend

ACGIH = American Conference of Governmental Industrial Hygienists; CAS = Chemical Abstracts Service; CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act; CFR = Code of Federal Regulations; CPR = Controlled Products Regulations; DOT = Department of Transportation; DSL = Domestic Substances List; EINECS = European Inventory of Existing Commercial Chemical Substances; EPA = Environmental Protection Agency; IARC = International Agency for Research on Cancer; IATA = International Air Transport Association; mg/Kg = milligrams per Kilogram; mg/L = milligrams per Liter; mg/m<sup>3</sup> = milligrams per Cubic Meter; MSHA = Mine Safety and Health Administration; NA = Not Applicable or Not Available; NIOSH = National Institute for Occupational Safety and Health; NJTSR = New Jersey Trade Secret Registry; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; SARA = Superfund Amendments and Reauthorization Act; TDG = Transport Dangerous Goods; TSCA = Toxic Substances Control Act; WHMIS = Workplace Hazardous Materials Information System.

End of Sheet C-302