SAFETY DATA SHEET

Date of issue/Date of revision 26 May 2015

Version 3

Section 1. Identification		
Product name	: Fiber Glass Continuous Filament	
Product code	: 01014	
Other means of identification	 Product Family: Product Name: Chopped Strand: ChopVantage®, ChopVantage® XM, ChopVantage® HP, ChopVantage® XM HP, Delta Chop®, Chopped Strands for Nonwovens Direct Draw: HYBON®, TUFRov®, InnoFiber® NTY, LFT4000, LFT9000 Yarn: FiberGlass Yarn, L.E.X.® Yarn, TEXO® Yarn, InnoFiber® DCS Mat: Chopped Strand Mat, MatVantage® II Roving: Roving for Continuous Laminating, Roving for Pultrusion/Filament Winding, Roving for SMC, HYBON® Roving for Spray Up, HYBON® Woven Roving, PREFORMANCE™ ROVING INNOFIBER®: CR, HP, LD, TS, XM Insulation: Texo® HTM Mat Recycled Products: Chop/Open ESM, Chop/Open Plastic Reinforcement, Chop/Open 10 micron, Chop/Open 900, Reject Roving, Reject Chopped Strand 	
Product type	: Article	
Relevant identified use	es of the substance or mixture and uses advised against	
Product use	: Industrial applications.	

Product use	: Industrial applications.
Use of the substance/ mixture	: Industrial applications
Uses advised against	: None identified.
Supplier	 PPG Industries, Inc. One PPG Place Pittsburgh, PA 15272 PPG INDUSTRIES FIBER GLASS B.V. Energieweg 3 NL 9608 PZ Westerbroek The Netherlands Telephone: 31 598 313 633 / 31 598 313 911 (24h/24h) PPG Fiber Glass EMEA Service Center/Centre
Emergency telephone number	: (412) 434-4515 (U.S.)
Technical Phone Number	: 1-800-432-7073 ext. 302 (Fiber Glass)

Product name Fiber Glass Continuous Filament

Section 2. Hazards identification

OSHA/HCS status	: While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
Classification of the substance or mixture	: Not classified.
GHS label elements	
Signal word	: No signal word.
Hazard statements	: No known significant effects or critical hazards.
Precautionary statements	
Prevention	: Not applicable.
Response	: Not applicable.
Storage	: Not applicable.
Disposal	: Not applicable.
Supplemental label elements	: Emits toxic fumes when heated.
Hazards not otherwise classified	: None known.

Section 3. Composition/information on ingredients

Substance/mixture	: Article
Product name	: Fiber Glass Continuous Filament
Other means of identification	 Product Family: Product Name: Chopped Strand: ChopVantage®, ChopVantage® XM, ChopVantage® HP, ChopVantage® XM HP, Delta Chop®, Chopped Strands for Nonwovens Direct Draw: HYBON®, TUFRov®, InnoFiber® NTY, LFT4000, LFT9000 Yarn: FiberGlass Yarn, L.E.X.® Yarn, TEXO® Yarn, InnoFiber® DCS Mat: Chopped Strand Mat, MatVantage® II Roving: Roving for Continuous Laminating, Roving for Pultrusion/Filament Winding, Roving for SMC, HYBON® Roving for Spray Up, HYBON® Woven Roving, PREFORMANCE™ ROVING INNOFIBER®: CR, HP, LD, TS, XM Insulation: Texo® HTM Mat Recycled Products: Chop/Open ESM, Chop/Open Plastic Reinforcement, Chop/Open 10 micron, Chop/Open 900, Reject Roving, Reject Chopped Strand

Ingredient name	%	CAS number
glass, oxide, chemicals Organic Surface Binder/Sizing		65997-17-3 Not available.

Some Fiberglass products contain Textured Polyester Filament Yarn

SUB codes represent substances without registered CAS Numbers.

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Section 3. Composition/information on ingredients

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person. Description of necessary first aid measures

Eye contact	: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. If irritation persists, seek medical attention.	
Inhalation	: None known.	
Skin contact	: Remove contaminated clothing and shoes. Gently wash with plenty of soap and water. If irritation persists, seek medical attention. If glass fiber becomes embedded, get medical attention.	
Ingestion	: Not a likely route of exposure.	
Most important symptoms/	effects, acute and delayed	
Potential acute health effe	ects	
Eye contact	: Dusts from this product may cause temporary mechanical irritation.	
Inhalation	 Dusts from this product may cause mechanical irritation of the nose, throat and respiratory tract. 	
Skin contact	: Dusts from this product may cause temporary mechanical irritation.	
Ingestion	 Although ingestion of this product is not likely to occur in industrial applications, accidental ingestion may cause illness or irritation of the mouth and gastrointestinal tract. 	
Over-exposure signs/sym	<u>ptoms</u>	
Eye contact	: No specific data.	
Inhalation	: No specific data.	
Skin contact	: No specific data.	
Ingestion	No specific data.	
Indication of immediate medical attention and special treatment needed, if necessary		
Notes to physician	 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. 	
Specific treatments	: No specific treatment.	
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training.	

See toxicological information (Section 11)

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Section 5. Fire-fighting measures

Extinguishing media		
Suitable extinguishing media	se an extinguishing agent suitable for the surrounding fire.	
Unsuitable extinguishing media	one known.	
Specific hazards arising from the chemical	o specific fire or explosion hazard. Material is not an electrical cond ccumulate static charge.	uctor and may
Hazardous thermal decomposition products	berglass will not burn, but smoking of the product may occur at app 00 °F (approximately 200 - 260 °C) due to decomposition of the sur- urface binders may decompose in a fire situation and release carbon arbon dioxide and water. Additionally, there are many chemicals that uring any partial decomposition of chemical products. The amounts annot be predicted and can differ in each situation.	face binder. on monoxide, at can evolve
Special protective actions for fire-fighters	romptly isolate the scene by removing all persons from the vicinity or ere is a fire. No action shall be taken involving any personal risk or aining.	
Special protective equipment for fire-fighters	berglass itself will not support combustion, but in a sustained fire, p gainst products of combustion from the fuel and sizing/binder must	

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures		
For non-emergency personnel	: N	No special protection is required.
For emergency responders	: N	No special protection is required.
Environmental precautions		Fiberglass is generally considered to be an inert solid waste. No special precautions are needed in case of a release or spill.

Methods and materials for containment and cleaning up

Small spill	1	Vacuum or sweep up material and place in a designated, labeled waste container.
Large spill	1	Vacuum or sweep up material and place in a designated, labeled waste container.
Reference to other sections	:	See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

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Section 7. Handling and storage

Precautions for safe handling

Protective measures Advice on general occupational hygiene	 Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	: Store in accordance with local regulations.

Section 8. Exposure controls/personal protection

Control parameters

С

F

IPEL

R

Ζ

= Ceiling Limit

= Respirable

= Internal Permissible Exposure Limit

OSHA = Occupational Safety and Health Administration.

Consult local authorities for acceptable exposure limits.

= OSHA 29CFR 1910.1200 Subpart Z - Toxic and Hazardous Substances

= Fume

Occupational exposure limits

OSHA PEL (United States). TWA: 15 mg/m ³
TWA: 5 mg/m ³ Form: Respirable TWA: 15 mg/m ³ Form: Total dust ACGIH TLV (United States). TWA: 1 f/cc Form: Continuous filament glass fibers TWA: 5 mg/m ³ , (Inhalable) Form: Continuous filament glass fibers TWA: 3 mg/m ³ Form: Respirable TWA: 10 mg/m ³ Form: Total dust ACGIH TLV (United States, 6/2013). TWA: 5 mg/m ³ 8 hours. Form: Inhalable fraction TWA: 1 f/cc 8 hours. Form: Respirable fibers: length greater than 5 uM; aspect ratio equal to or greater than 3:1 as determined by the membrane filter method at 400-450X magnification (4-mm objective) phase contrast illumination.
S = Potential skin absorption SR = Respiratory sensitization

SS

STEL

TD

TLV

TWA

= Skin sensitization

= Threshold Limit Value

= Time Weighted Average

= Total dust

= Short term Exposure limit values

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Section 8. Exposure controls/personal protection

Recommended monitoring procedures	: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
Appropriate engineering controls	 Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measur	<u>es</u>
Hygiene measures	: Good personal hygiene and the use of barrier creams, caps, protective gloves, cotton coveralls or long sleeved loose fitting clothing will maximize comfort. Appropriate techniques should be used to remove potentially contaminated clothing. Work clothing should be laundered separately from other clothing before reuse. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection <u>Skin protection</u>	: Safety glasses with side shields.
Hand protection	: Use gloves to protect against physical irritation or injury if required by handling conditions.
Body protection	: Wear clean, body-covering clothing.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	If dust is generated and ventilation is inadequate, use respirator that will protect against dust/mist. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

<u>Appearance</u>	
Physical state	: Solid.
Color	: White to yellowish.
Odor	: Odorless.
Odor threshold	: Not available.
рН	: Not available.
Melting point	: Not available.
Boiling point	: Not available.
Flash point	: Closed cup: Not applicable. [Product does not sustain combustion.]
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.

Product name Fiber Glass Continuous Filament

Section 9. Physical and chemical properties

Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Evaporation rate	: Not available.
Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: 2.65 to 2.7
Solubility	: Insoluble
Partition coefficient: n- octanol/water	: Not available.
Viscosity	: Not applicable.
Volatility	: 0% (v/v), 0% (w/w)
% Solid. (w/w)	: 100

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8.
Incompatible materials	: None known.
Hazardous decomposition products	: Fiberglass products may release small amounts of acetic acid and other organic materials at elevated temperatures.

Section 11. Toxicological information

Information on toxicological	effects
Acute toxicity	
Conclusion/Summary	: No known significant effects or critical hazards.
Irritation/Corrosion	
Conclusion/Summary	
Skin	: No known significant effects or critical hazards.
Eyes	: No known significant effects or critical hazards.
Respiratory	: No known significant effects or critical hazards.
Sensitization	
Conclusion/Summary	

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Product code 01014 Date of issue 26 May 2015 Version 3 Product name Fiber Glass Continuous Filament Section 11. Toxicological information Skin : No known significant effects or critical hazards. : No known significant effects or critical hazards. Respiratory **Mutagenicity Conclusion/Summary** : No known significant effects or critical hazards. Carcinogenicity **Conclusion/Summary** : No known significant effects or critical hazards. **Classification Product/ingredient name OSHA** IARC NTP 3 glass, oxide, chemicals **Carcinogen Classification code:** IARC: 1, 2A, 2B, 3, 4 NTP: Known to be a human carcinogen; Reasonably anticipated to be a human carcinogen OSHA: + Not listed/not regulated: -**Reproductive toxicity Conclusion/Summary** : No known significant effects or critical hazards. **Teratogenicity Conclusion/Summary** : No known significant effects or critical hazards. Specific target organ toxicity (single exposure) Not available. Specific target organ toxicity (repeated exposure) Not available. Target organs : Contains material which may cause damage to the following organs: upper respiratory tract, skin, eyes. Aspiration hazard Not available. Information on the likely routes of exposure Potential acute health effects Eye contact : Dusts from this product may cause temporary mechanical irritation. Inhalation Dusts from this product may cause mechanical irritation of the nose, throat and 2 respiratory tract. **Skin contact** : Dusts from this product may cause temporary mechanical irritation. Ingestion : Although ingestion of this product is not likely to occur in industrial applications, accidental ingestion may cause illness or irritation of the mouth and gastrointestinal tract. **Over-exposure signs/symptoms** Eye contact : No specific data. Inhalation : No specific data. **Skin contact** : No specific data. Ingestion : No specific data. Delayed and immediate effects and also chronic effects from short and long term exposure **United States** Page: 8/12

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Section 11. Toxicological information

Conclusion/Summary	: There are no known health effects from the long term use or contact with nonrespirable continuous filament fibers, which is the type of fiberglass that PPG produces. Nonrespirable fibers cannot reach the deep lung because they have a diameter of greater than 3.5 micrometers. Fibers of this diameter cannot penetrate the narrow, bending passages of the human respiratory tract to reach the lower regions of the lung and thus, have no possibility of causing serious pulmonary damage. Instead, they deposit on the surfaces of the upper respiratory tract, nose, or pharynx. These fibers are then cleared through normal physiological mechanisms.
	Animal Study: In 2000, the Institute of Occupational Medicine (IOM) in Scotland published the results of a long term inhalation study in animals exposed to fibers that were manufactured to be RESPIRABLE. Animals were exposed to a very high concentration of these RESPIRABLE fibers (1022 fibers/cc for 5 hours/day, 7 days/week for 52 weeks). Exposure to these microfibers resulted in the development of fibrosis, lung cancer and mesothelioma as a result of the fibers being able to reach the lower regions of the lung.
	Chopped, crushed or severely mechanically processed fiberglass may contain a very small amount of respirable fibers that could reach the deep lung. The measured airborne concentration of these respirable fibers in areas where severe processing of fiberglass occurred has been shown to be extremely low and well below the TLV. Repeated or prolonged exposure to respirable glass fibers may cause fibrosis, lung cancer and mesothelioma. PPG fiberglass, in the form supplied, does not contain respirable fibers.
	Epidemiology Studies: Two major studies in the US (performed by the University of Pittsburgh) and Europe (performed by the International Agency for Research on Cancer showed no increase in lung cancer or respiratory disease among people working in production facilities producing NONRESPIRABLE continuous filament fiberglass. An additional smaller study performed in Canada also did not show an association between exposure of workers to fiberglass and respiratory cancer.
<u>Short term exposure</u>	
Potential immediate effects	: No known significant effects or critical hazards.
Potential delayed effects Long term exposure	: No known significant effects or critical hazards.
Potential immediate effects	: No known significant effects or critical hazards.
Potential delayed effects	: No known significant effects or critical hazards.
Potential chronic health effe	
General	: No known significant effects or critical hazards.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.
lumerical measures of toxic	ity
Acute toxicity estimates	

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Section 11. Toxicological information

Not available.

Section 12. Ecological information

<u>Toxicity</u>

Not available.

Persistence and degradability

Not available.

Bioaccumulative potential

Not available.

<u>Mobility in soil</u>

Soil/water partition coefficient (Koc)

: Not available.

Section 13. Disposal considerations

Disposal methods

: The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

14. Transport information

	DOT	IMDG	ΙΑΤΑ
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class (es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.

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14. Transport information

Additional information

DOT	: None identified.
IMDG	: None identified.
ΙΑΤΑ	: None identified.

Special precautions for user : -

Section 15. Regulatory information

United States inventory (TSCA 8b) : All components are listed or exempted. Australia inventory (AICS) : All components are listed or exempted. Canada inventory (DSL) : All components are listed or exempted. China inventory (IECSC) : All components are listed or exempted. Europe inventory (REACH) : Please contact your supplier for information on the inventory status of this material. Japan inventory (KECI) : All components are listed or exempted. Korea inventory (KECI) : All components are listed or exempted. New Zealand (NZIoC) : All components are listed or exempted. United States : All components are listed or exempted. SARA 302/304 : All components are listed or exempted. United States : All components are listed or exempted. United States : All components are listed or exempted. United States : All components are listed or exempted. United States : All components are listed or exempted. SARA 302/304 : All components are listed or exempted. SARA 311/312 : All components No products were found. : All components SARA 311/312 : All components No products were found. : Not applicable. <t< th=""><th></th><th></th></t<>		
Canada inventory (DSL) : All components are listed or exempted. China inventory (IECSC) : All components are listed or exempted. Europe inventory (REACH) : Please contact your supplier for information on the inventory status of this material. Japan inventory (ENCS) : All components are listed or exempted. Korea inventory (KECI) : All components are listed or exempted. New Zealand (NZIOC) : All components are listed or exempted. Philippines inventory (PICCS) : All components are listed or exempted. United States : All components are listed or exempted. SARA 302/304 : All components are listed or exempted. SARA 304 RQ : Not applicable. Composition/information on ingredients No products were found. SARA 311/312 : Not applicable. Classification : Not applicable. Composition/information on ingredients : Not applicable.	United States inventory (TSCA 8	3b) : All components are listed or exempted.
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New Zealand (NZloC) : All components are listed or exempted. Philippines inventory (PICCS) : All components are listed or exempted. United States	Japan inventory (ENCS)	: All components are listed or exempted.
Philippines inventory (PICCS) : All components are listed or exempted. United States SARA 302/304 SARA 304 RQ : Not applicable. Composition/information on ingredients No products were found. SARA 311/312 : Not applicable. Classification : Not applicable. Composition/information on ingredients	Korea inventory (KECI)	: All components are listed or exempted.
United States SARA 302/304 SARA 304 RQ : Not applicable. Composition/information on ingredients No products were found. SARA 311/312 Classification : Not applicable. Composition/information on ingredients	New Zealand (NZIoC)	: All components are listed or exempted.
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Classification : Not applicable. Composition/information on ingredients	No products were found.	
Classification : Not applicable. Composition/information on ingredients	SARA 311/312	
Composition/information on ingredients		Not applicable

Section 16. Other information

Hazardous Material Information System (U.S.A.)	
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Flammability : 0 Physical hazards : Health : 1 0

(*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Prote	ction Association (U.S.A.)	
Health : 1	Flammability : 0 Instability : 0	
Other information	: the PPG logo is a registered trademark of PPG Industries Ohio, Inc.	
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Section 16. Other information

Date of previous issue	: 5/26/2015.	
Organization that prepared the MSDS	: EHS	
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations	

Indicates information that has changed from previously issued version.

Disclaimer

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.