



# SAFE USE INSTRUCTION SHEET

Creation Date 29-May-2015

Revision Date 25-May-2017

Version 2

## 0. GENERAL INFORMATION

This Safe Use Instruction Sheet is the document provided by Owens Corning to communicate recommended safe handling and use instructions for manufactured articles neither regulated by OSHA Hazard Communication Standard, 29 CFR 1910.1200 nor by the Canada Hazardous Products Regulation SOR/2015-17 (WHMIS 2015)

## 1. IDENTIFICATION

<b>Product Name</b>	Continuous Filament Glass Fiber Products: Wet Used Chopped Strands
<b>Synonyms</b>	WUCS, Wet-Use Chopped Strand, Wet Chopped Strand, 9550, 9560, 9570, 9580, 9581, 9582, 2301, 777B, 777C, 777S, 9501, 9503, 790C, 790C HS, 9703, 691A, 1530, 1545
<b>Product Code</b>	OCCM10003
<b>Recommended Use</b>	Industrial use, reinforcement of composite material
<b>Manufacturer Address</b>	Owens Corning Composite Materials, LLC One Owens Corning Parkway Toledo, Ohio 43659
<b>Company Phone Number</b>	1-800-GET-PINK or 1-800-438-7465
<b>24 Hour Emergency Phone Number</b>	Chemtrec 1-800-424-9300
<b>Emergency Telephone</b>	1-419-248-5330 (after 5 pm ET and weekends)
<b>E-mail address</b>	productcompliance@owenscorning.com
<b>Company Website</b>	<a href="http://www.owenscorning.com/">http://www.owenscorning.com/</a>

## 2. HAZARDS IDENTIFICATION

<b>OSHA Regulatory Status</b>	Continuous Filament Glass Fiber (CFGF) Products are articles Articles which meet the definition of 29 CFR 1910.1200 (b)(6)(v) (a manufactured item other than a fluid or a particle: (i) which is formed to a specific shape or design during manufacture; (ii) which has an end use function(s) dependant in whole or in part upon its shape or design during end use; and (iii) which under normal conditions of use does not release more than very small quantities, e.g. minute or trace amounts of a hazardous chemical (as determined in paragraph (d) of this section), and does not pose a physical hazard or health risk to employees) are not regulated by OSHA HazCom Standard
<b>WHMIS Regulatory Status</b>	Continuous Filament Glass Fiber (CFGF) Products are manufactured articles Manufactured articles which meet the definition of the Canadian Hazardous Products Act (any article that is formed to a specific shape or design during manufacture, the intended use of which when in that form is dependent in whole or in part on its shape or design, and that, when being installed, if the intended use of the article requires it to be installed, and under normal conditions of use, will not release or otherwise cause an individual to be exposed to a hazardous product) are not regulated by the Canadian Hazardous Products Regulation SOR/2015-17
<b>Other Information</b>	As manufactured continuous filament glass fibers are non-respirable. May cause temporary

skin and mucous membranes itching due to mechanical abrasion effect of fibers. Under normal conditions of use, these products may release dust and non-respirable fibers (Particles Not Otherwise Regulated). Under severe process conditions (e.g. shredding, crushing), these products may release very small amount of respirable particulate, some of which may be fiber-like in terms of l/d ratio (so-called "shards"). See Section 8 for Exposure Limit Data

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

CFGF products are made of glass which is given a specific shape (filament) and dimension (filament diameter). A surface treatment (sizing) is applied to the filaments which are gathered to form a strand. The strand is further processed into a specific product design according to the downstream use of the article. The sizing is a mixture of chemicals, i.e. coupling agent, film former and polymeric resin/emulsion. The sizing content is usually below 3%

### 4. FIRST AID MEASURES

#### Description of First Aid Measures

- |                     |   |
|---------------------|---|
| <b>Eye contact</b>  | <ul style="list-style-type: none"><li>• DO NOT rub or scratch eyes</li><li>• Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes</li><li>• If eye irritation persists: Get medical advice/attention</li></ul>   |
| <b>Skin contact</b> | <ul style="list-style-type: none"><li>• Wash off immediately with soap and plenty of cold water</li><li>• DO NOT use warm water because this will open up the pores of the skin, which will cause further penetration of the fibers</li><li>• DO NOT rub or scratch affected area</li><li>• If skin irritation persists, call a physician</li></ul> |
| <b>Inhalation</b>   | <ul style="list-style-type: none"><li>• Move victim to fresh air</li><li>• If symptoms persist, call a physician</li></ul>  |
| <b>Ingestion</b>    | <ul style="list-style-type: none"><li>• Accidental ingestion of this material is unlikely</li><li>• Rinse mouth with water and drink water to remove fibers from the throat</li><li>• If symptoms persist, call a physician</li></ul>   |

### 5. FIRE-FIGHTING MEASURES

- |  |   |
|--|---|
| <b>Flammable properties</b>                                  | <ul style="list-style-type: none"><li>• Continuous Filament Glass Fiber products are not flammable, are incombustible and do not support combustion. Only the Sizing is combustible and could release small quantities of undetermined hazardous substances in case of major and prolonged heat or fire</li></ul> |
| <b>Suitable extinguishing media</b>                          | <ul style="list-style-type: none"><li>• Use CO2, dry chemical, or foam</li><li>• Water spray or fog</li></ul>   |
| <b>Protective equipment and precautions for firefighters</b> | <ul style="list-style-type: none"><li>• As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear</li></ul>   |

### 6. ACCIDENTAL RELEASE MEASURES

- |                                |   |
|--------------------------------|---|
| <b>Personal precautions</b>    | <ul style="list-style-type: none"><li>• Avoid contact with eyes and skin</li><li>• Avoid creating dust</li><li>• Use personal protection recommended in Section 8</li></ul> |
| <b>Methods for cleaning up</b> | <ul style="list-style-type: none"><li>• Avoid dry sweeping</li><li>• Avoid creating dust</li></ul>  |

- Take up mechanically, placing in appropriate containers for disposal
- Use an industrial vacuum cleaner with a high efficiency filter to clean up dust and fiber contamination
- After cleaning, flush away traces with water

**7. HANDLING AND STORAGE**

- Precautions for safe handling**
- Avoid contact with skin, eyes or clothing
  - Prevent and/or minimize dust formation
- Storage Conditions**
- Keep product in packaging until use to minimize potential dust generation
- Incompatible materials**
- None known

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Exposure Guidelines**

As manufactured continuous filament glass fibers are not respirable. Under normal conditions of use, these products may release dust and non-respirable fibers (Particles Not Otherwise Regulated). Under severe process conditions (e.g. shredding, crushing), they may release very small amount of respirable particulate, some of which may be glass shards (see section 11)

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH REL	Ontario TWA
Continuous filament glass fiber, non-respirable 65997-17-3	TWA: 1 fiber/cm <sup>3</sup> respirable fibers: length >5 µm, aspect ratio >=3:1, as determined by the membrane filter method at 400-450X magnification [4-mm objective], using phase-contrast illumination TWA: 5 mg/m <sup>3</sup> inhalable particulate matter	-	-	TWA: 1 fibre/cm <sup>3</sup> TWA: 5 mg/m <sup>3</sup>

**OSHA PEL:** TWA for Inert or Nuisance Dust are 5 mg/m<sup>3</sup> (Respirable fraction) and 15 mg/m<sup>3</sup> (Total dust)

**Ontario:** TWA for Particles (Insoluble or Poorly soluble) Not Otherwise Specified (PNOS) are 3 mg/m<sup>3</sup> (Respirable fraction) and 10 mg/m<sup>3</sup> (Inhalable fraction)

- Engineering Controls**
- Provide local exhaust and/or general ventilation to maintain exposure below regulatory and recommended limits  
 Local exhaust ventilation should be provided at areas of cutting, milling or other similar processing to remove airborne dust and fibers

**Individual protection measures, such as personal protective equipment**

- Eye/face protection**
- Wear safety glasses with side shields (or goggles)
- Skin and body protection**
- Wear protective gloves
  - Wear long-sleeved shirt and long pants
- Respiratory protection**
- If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations
- General Hygiene Considerations**
- Wash hands before breaks and immediately after handling products
  - Remove and wash contaminated clothing before re-use

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Physical State @20°C** Solid - fiber with diameter larger than 6 micron  
**Appearance** Glass fiber yarns  
**Odor** Odorless

Color	White
Water solubility	Insoluble in water
Softening point	> 800°C ; > 1500°F
Density	2.6 (glass)
Explosive properties	Not an explosive

## 10. STABILITY AND REACTIVITY

**Stability** • Stable under normal conditions

**Possibility of Hazardous Reactions** • None under normal processing

**Hazardous Decomposition Products** • None under normal use conditions  
• Small quantities of undermined hazardous decomposition products may be released in case of heat exposure or during a fire

## 11. TOXICOLOGICAL INFORMATION

**Product Information** Continuous filament glass fibers are not respirable according to the World Health Organization (WHO) definition. Respirable fibers have a diameter (d) smaller than 3µm, a length (l) larger than 5µm and a l/d-ratio larger than or equal to 3. Fibers with diameters greater than 3 microns, which is the case for continuous filament glass fiber, do not reach the lower respiratory tract and, therefore have no possibility of causing serious pulmonary disease. Continuous filament glass fibers do not possess cleavage planes which would allow them to split length-wise into fibers with smaller diameters, rather they break across the fiber, resulting in fibers which are of the same diameter as the original fiber with a shorter length and a small amount of dust. Microscopic examination of dust from highly chopped and pulverised glass demonstrated the presence of small amounts of respirable dust particles. Among these respirable particles, some were fiber-like in terms of l/d ratio (so-called "shards"). It can be clearly observed however that they are not regular shaped fibers but irregular shaped particles with fiber-like dimensions. To the best of our knowledge, the exposure levels of these fiber-like dust particles measured at our manufacturing plants are of the order of magnitude between 50 to 1000 below existing applicable limits

**ACGIH (American Conference of Governmental Industrial Hygienists)** Continuous filament glass fibers are classified as A4 - Not Classifiable as a Human Carcinogen

**IARC (International Agency for Research on Cancer)** The International Agency for Research on Cancer (IARC) in June, 1987, and in October, 2001 (see IARC Monographs on the Evaluation of Carcinogenic risks to humans – Man-made Vitreous Fibers – Volume 81), categorized continuous filament fiber glass as not classifiable with respect to human carcinogenicity (Group 3). The evidence from human as well as animal studies was evaluated by IARC as insufficient to classify continuous filament fiber glass as a confirmed, probable or even possible cancer causing material

**NTP (National Toxicology Program)** Continuous filament glass fibers are not listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition)

**OSHA (Occupational Safety and Health Administration of the US Department of Labor)** X - Present

## 12. ECOLOGICAL INFORMATION

This product is not expected to be hazardous for the environment

## 13. DISPOSAL CONSIDERATIONS

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Disposal should be in accordance with applicable regional, national and local laws and regulations

**14. TRANSPORT INFORMATION**

These products are not classified as dangerous goods according to international transport regulations

**15. REGULATORY INFORMATION**

**International Inventories** Continuous filament glass fiber products are articles. Articles are exempted from registration or listing under chemicals inventories like TSCA (USA), DSL/NDSL (CAN), REACH (EU), ENCS (JP), IECSC (CN), KECL (KR), PICCS (PH), AICS (AUS)

**California Proposition 65** This product is not regulated under California Proposition 65

**16. OTHER INFORMATION**

<b>Prepared By</b>	FCs
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<b>Revision Date</b>	25-May-2017
<b>Revision Note</b>	Review of Section 2

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**End of Safe Use Instruction Sheet**