



# SAFETY DATA SHEET

Creation Date 27-May-2015

Revision Date 29-May-2017

Version 3

## 1. IDENTIFICATION

**Product Name** Veil (mineral filled+acrylic+melamine formaldehyde)

**Synonyms** VL A125EX-CH02, VL A135EX-CX13, VL A180EX-CX04, VL 180EX-CX51, VL A145EX-CX17

**Product Code** OCCM00005

**Recommended Use** Industrial

**Manufacturer Address** Owens Corning Composite Materials, LLC  
One Owens Corning Parkway  
Toledo, Ohio 43659

**Company Phone Number** 1-800-GET-PINK or 1-800-438-7465  
**24 Hour Emergency Phone Number** Chemtrec 1-800-424-9300  
**Emergency Telephone** 1-419-248-5330 (after 5 pm ET and weekends)

**E-mail address** [productcompliance@owenscorning.com](mailto:productcompliance@owenscorning.com)  
**Company Website** <http://www.owenscorning.com/>

## 2. HAZARDS IDENTIFICATION

**OSHA Regulatory Status** This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).  
This product is considered an article. 29 CFR 1910.1200(c) definition of an article is as follows: "Article" means a manufactured item other than a fluid or particle: (i) which is formed to a specific shape or design during manufacture; (ii) which has end use function(s) dependent 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 under paragraph (d) of this section), and does not pose a physical hazard or health risk to employees

**WHMIS Regulatory Status** This product is not considered hazardous by the Canadian Hazardous Products Regulation SOR/2015-17  
Continuous Filament Glass Fiber (CFGF) Products are manufactured articles. The definition of manufactured article given by the Canadian Hazardous Products Act R.S.C., 1985, c. H-3 is: 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

### Label elements

The product contains no substances which at their given concentration, are considered to be hazardous to health

**Hazards not otherwise classified (HNOC)** Not applicable

**Other Information** 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

**Unknown acute toxicity** • 2% of the mixture consists of ingredient(s) of unknown toxicity

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Components**

- Continuous filament glass fiber 20 - 60 %
- Aluminum hydroxide 40 - 70 %
- Cured polyvinyl alcohol binder 5 - 20 %
- Cured melamine formaldehyde resin 0.2 - 5 %
- Cured acrylic polymer 0.1 - 5 %

Chemical Name	CAS No.	Weight-%	Trade Secret
Aluminum hydroxide	21645-51-2	40 - 70	*
Continuous filament glass fiber, non-respirable	65997-17-3	20 - 60	*
Citric acid	77-92-9	0 - 0.5	*
Formaldehyde	50-00-0	0 - 0.01	*

• \*The exact percentage (concentration) of composition has been withheld as a trade secret or for covering a group of substantially similar products

**Comments** The remaining components of this product are non-hazardous or are in a small enough quantity as to not meet regulatory thresholds for disclosure. These components contain no substances or impurities which would influence the classification of this product

**4. FIRST AID MEASURES**

**Description of First Aid Measures**

- Eye contact**
  - DO NOT rub or scratch eyes
  - Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes
  - If eye irritation persists: Get medical advice/attention
- Skin contact**
  - DO NOT rub or scratch affected area
  - DO NOT use warm water because this will open up the pores of the skin, which will cause further penetration of the fibers
  - Wash skin with soap and water
  - Use a wash cloth to help remove fibers
  - If fibers are seen penetrating from the skin, the fibers can be removed by applying and removing adhesive tape so that the fibers adhere to the tape and are pulled out of the skin
- Inhalation**
  - Move victim to fresh air
  - If symptoms persist, call a physician
- Ingestion**
  - Accidental ingestion of this material is unlikely
  - Rinse mouth with water and drink water to remove fibers from the throat
  - If symptoms persist, call a physician

**Note to physicians** Treat symptomatically.

**5. FIRE-FIGHTING MEASURES**

- Flammable properties** • Not flammable. Only the organic part of the product is combustible and could release small quantities of undetermined hazardous compounds in case of major and prolonged heat or fire
- Suitable extinguishing media** • Use CO2, dry chemical, or foam  
• Water spray or fog
- Unsuitable extinguishing media** • None
- Specific hazards arising from the chemical** • No information available
- Explosion data**
  - Sensitivity to Mechanical Impact** • None
  - Sensitivity to Static Discharge** • None
- Protective equipment and precautions for firefighters** • As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

- Personal precautions** • Avoid contact with eyes and skin
- Environmental precautions** • See Section 12 for ecotoxicology additional information

**Methods and material for containment and cleaning up**

- Methods for containment** • Prevent further leakage or spillage if safe to do so
- Methods for cleaning up** • Use personal protective equipment as required  
• Avoid creating dust  
• 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

**7. HANDLING AND STORAGE**

**Precautions for safe handling** • Prevent and/or minimize dust formation

**Conditions for safe storage, including any incompatibilities**

- Storage Conditions** • Store in a manner which will minimize dust generation and accumulation  
• Keep product in packaging until use to minimize potential dust generation
- Incompatible materials** • None known

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

**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
Aluminum hydroxide 21645-51-2	TWA: 1 mg/m <sup>3</sup> respirable particulate matter	-	-
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	-	-
Formaldehyde 50-00-0	Ceiling: 0.3 ppm	TWA: 0.75 ppm (vacated) TWA: 3 ppm unless specified in 1910.1048 (vacated) STEL: 10 ppm 30 min unless specified in 1910.1048 (vacated) Ceiling: 5 ppm unless specified in 1910.1048 STEL: 2 ppm see 29 CFR 1910.1048	IDLH: 20 ppm Ceiling: 0.1 ppm 15 min TWA: 0.016 ppm

NIOSH REL Immediately Dangerous to Life or Health

**Other Information**

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

**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 veil

**Odor**

Organic

**Color**

White

**pH value**

not applicable

**Melting point / freezing point**

not applicable

**Boiling point / boiling range**

not applicable

**Flash point**

not applicable

**Evaporation rate**

Not applicable

**Vapor pressure @20 °C (kPa)**

not applicable mm Hg @ 20°C

**Density VALUE**

not applicable

<b>Water solubility</b>	No information available
<b>Autoignition temperature</b>	No information available not applicable
<b>Explosive properties</b>	Not an explosive
<b>Oxidizing properties</b>	Not an oxidizer
<b>Specific Gravity</b>	not applicable
<b>Softening point</b>	> 800°C
<b>Density VALUE</b>	not applicable

### 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	• No known reactivity
<b>Chemical stability</b>	• Stable under recommended storage conditions
<b>Possibility of Hazardous Reactions</b>	• None under normal processing
<b>Conditions to avoid</b>	• None known
<b>Incompatible materials</b>	• None known
<b>Hazardous Decomposition Products</b>	• Thermal decomposition can lead to release undetermined compounds in small quantities

### 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**

**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
- 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

**Component Information**

Chemical Name	Oral LD50	LD50/dermal/rat - NO UNITS (Wizards mg/kg)	Inhalation LC50
Aluminum hydroxide 21645-51-2	> 5000 mg/kg ( Rat )	-	-
Polyvinyl alcohol 9002-89-5	= 23854 mg/kg ( Rat )	-	-
Citric acid 77-92-9	= 3 g/kg ( Rat )	-	-

Formaldehyde 50-00-0	= 100 mg/kg ( Rat )	= 270 mg/kg ( Rabbit )	= 0.578 mg/L ( Rat ) 4 h
Polyoxyethylene stearyl ether 9005-00-9	= 1900 mg/kg ( Rat )	-	-

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Sensitization** None known.  
**Germ cell mutagenicity** None known.  
**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen. This product contains one or more substances which are classified by IARC as carcinogenic to humans (Group I), probably carcinogenic to humans (Group 2A) or possibly carcinogenic to humans (Group 2B).

Chemical Name	ACGIH	IARC	NTP	OSHA
Continuous filament glass fiber, non-respirable 65997-17-3	-	Group 3	-	-
Polyvinyl alcohol 9002-89-5	-	Group 3	-	-
Formaldehyde 50-00-0	A2	Group 1	Known	X

ACGIH (American Conference of Governmental Industrial Hygienists)  
 A2 - Suspected Human Carcinogen  
 IARC (International Agency for Research on Cancer)  
 Group 1 - Carcinogenic to Humans  
 Group 3 - Not classifiable as a human carcinogen  
 NTP (National Toxicology Program)  
 Known - Known Carcinogen  
 OSHA (Occupational Safety and Health Administration of the US Department of Labor)  
 X - Present

**Reproductive toxicity** This product does not contain any known or suspected reproductive hazards.  
**STOT - single exposure** No known effects under normal use conditions.  
**STOT - repeated exposure** None under normal use conditions.  
**Target Organ Effects** No known effects under normal use conditions.  
**Aspiration hazard** Not applicable.

**12. ECOLOGICAL INFORMATION**

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Citric acid 77-92-9	-	1516: 96 h Lepomis macrochirus mg/L LC50 static	-
Formaldehyde 50-00-0	-	22.6 - 25.7: 96 h Pimephales promelas mg/L LC50 flow-through 1510: 96 h Lepomis macrochirus µg/L LC50 static 41: 96 h Brachydanio rerio mg/L LC50 static 100 - 136: 96 h Oncorhynchus mykiss mg/L LC50 static 23.2 - 29.7: 96 h Pimephales promelas mg/L LC50 static 0.032 - 0.226: 96 h Oncorhynchus mykiss mL/L LC50 flow-through	2: 48 h Daphnia magna mg/L LC50 11.3 - 18: 48 h Daphnia magna mg/L EC50 Static

**Persistence and degradability** • No information available

**Bioaccumulation** • No information available

Chemical Name	Partition coefficient
Citric acid	-1.72

77-92-9	
Formaldehyde 50-00-0	0.35

**Other adverse effects** • No information available

**13. DISPOSAL CONSIDERATIONS**

**Disposal of wastes** • Disposal should be in accordance with applicable regional, national and local laws and regulations

**Contaminated packaging** • Do not reuse container

**US EPA Waste Number** • No EPA Waste Number are applicable  
• U122

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Formaldehyde 50-00-0	U122	Included in waste streams: K009, K010, K038, K040, K156, K157	-	U122

**14. TRANSPORT INFORMATION**

**DOT** Not regulated  
**TDG** Not regulated  
**MEX** Not regulated  
**ICAO (air)** Not regulated  
**IATA** Not regulated  
**IMDG** Not regulated  
**RID** Not regulated  
**ADR** Not regulated  
**ADN** Not regulated

**15. REGULATORY INFORMATION**

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).

**International Inventories**

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Aluminum hydroxide 21645-51-2	X	X		X		X	X	X	X	X
Continuous filament glass fiber, non-respirable 65997-17-3	X	X		X		X	X	X	X	X
Citric acid 77-92-9	X	X		X		X	X	X	X	X
Formaldehyde 50-00-0	X	X		X		X	X	X	X	X



**Revision Date** 29-May-2017  
**Revision Note** Review of Section 2

**Disclaimer**

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

**End of Safety Data Sheet**