

SAFETY DATA SHEET

Creation 28-May-2015 Date	Revision Date 21-Jan-2019 Version 5			
1. IDENTIFICATION				
Product Name	Continuous Filament Glass Fiber Products: Veil (uf, acrylic)			
Synonyms	VL C35U, VL C35U/5, VL C42U, VL C50U, VL C60U, VL C70U, VL I35U, VL I42U, VL I35U/2, VL I42U/2, VL I50U, VL 3101, VL 3110, VL 3118, VL 3120, VL 3200, VL 3202, VL 3205, VL 6185, VL 9503, VL R65U, VL R50U, OCMat9002, OCMat9003, OCMat9501, OCMat9502, OCMat 9503, Dens Deck Mat, Roofing Mat, Shingle Mat			
Product Code	OCCM00001			
Recommended Use	• Industrial			
Manufacturer Address	Owens Corning Composite Materials, LLC One Owens Corning Parkway Toledo, Ohio 43659			
Company Phone Number 24 Hour Emergency Phone Number Emergency Telephone	1-800-GET-PINK or 1-800-438-7465 mber Chemtrec 1-800-424-9300 or 1-703-741-5970 CCN17393 1-419-248-5330 (after 5 pm ET and weekends)			
E-mail address Company Website	productcompliance@owenscorning.com http://www.owenscorning.com/			
	2. HAZARDS IDENTIFICATION			
OSHA Regulatory Status	This product is not classified as hazardous according to 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 classified as hazardous according to 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				

This product is not classified according to Globally Harmonized System (GHS)

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 I/d ratio (so-called "shards"). See Section 8 for Exposure Limit Data
Unknown acute toxicity	Not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

Product Components

Continuous filament glass fiber 60 - 90 % Cured urea-formaldehyde resin 10 - 30 % Cured acrylic polymer 1 - 5 %

Chemical name	CAS No.	Weight-%	Trade Secret
Continuous filament glass fiber, non-respirable	65997-17-3	60 - 90	*
Formaldehyde	50-00-0	0 - 0.1	*

• *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 fibers and dust Wash skin with soap and water Use a wash cloth to help remove fibers and dust 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 foamWater spray or fog					
Unsuitable extinguishing media	• No					
Specific hazards arising from the chemical	No information available					
Explosion data Sensitivity to Mechanical Impac Sensitivity to Static Discharge	• No					
Protective equipment and precautions for firefighters	 As in any fire, wear self-contained breathing apparatus (positive-pressure), MSHA/NIOSH (approved or equivalent) and full protective gear 					
	6. ACCIDENTAL RELEASE MEASURES					
Personal precautions, protective e	6. ACCIDENTAL RELEASE MEASURES					
Personal precautions, protective ed Personal precautions						
	quipment and emergency procedures					
Personal precautions	 quipment and emergency procedures Avoid contact with eyes and skin See Section 12 for ecotoxicology additional information 					
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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
Continuous filament glass fiber, non-respirable 65997-17-3	TWA: 1 fiber/cm3 respirable fibers: length >5 μm, diameter less than 3 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 ³ inhalable particulate matter	-	
Formaldehyde 50-00-0	Ceiling: 0.3 ppm	TWA: 0.75 ppm 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

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 Consideration	ons • Wash hands before breaks and immediately after handling products

ygiene Considerations • Wash hands before breaks and immediately after handling product
 Remove and wash contaminated clothing before re-use

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state Appearance Odor Color pH value Melting point / freezing point Boiling point / boiling range Flash point Evaporation rate	Solid - fiber with diameter larger than 6 micron Glass fiber veil Organic White not applicable not applicable not applicable not applicable Not applicable
Vapor pressure @20 °C (kPa)	not applicable
Density VALUE	not applicable
Autoignition temperature	Not applicable
Viscosity	not applicable

Explosive properties Oxidizing properties Specific Gravity Softening point VOC: Liquid Density	Not an explosive Not an oxidizer not applicable > 800°C Not determined not applicable
	10. STABILITY AND REACTIVITY
Reactivity	No known reactivity
Chemical stability	Stable under recommended storage conditions
Possibility of Hazardous Reactions	None under normal processing
Conditions to avoid	• None known
Incompatible materials	None known
Hazardous Decomposition Product	 Thermal decomposition of organic part 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 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

Components Information

Chemical name	Oral LD50	LD50/dermal/rat - NO UNITS (Wizards mg/kg)	Inhalation LC50
Formaldehyde	= 100 mg/kg (Rat)	= 270 mg/kg (Rabbit)	= 0.578 mg/L (Rat)4 h

50-00-0		
100 00 0		

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

Sensitization Germ cell mutagenicity Carcinogenicity None known. None known. The table below indi

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	-	Group 3	-	-
fiber, non-respirable 65997-17-3				
Formaldehyde 50-00-0	A2	Group 1	Known	Х

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

12. ECOLOGICAL INFORMATION

Chemical name	Algae/aquatic plants	Fish	Crustacea
Formaldehyde	-	22.6 - 25.7: 96 h Pimephales	2: 48 h Daphnia magna mg/L LC50
50-00-0		promelas mg/L LC50 flow-through	11.3 - 18: 48 h Daphnia magna
		1510: 96 h Lepomis macrochirus	mg/L EC50 Static
		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	

Persistence and degradability

No information available

Bioaccumulation

• No information available

Chemical name	Partition coefficient
Formaldehyde	0.35
50-00-0	

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

· Do not reuse packaging

Contaminated packaging

US EPA Waste Number • No EPA Waste Number applies to the product

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

14. TRANSPORT INFORMATION

DOT	Not regulated
TDG	Not regulated
MEX	Not regulated
ICAO (air)	Not regulated
ΙΑΤΑ	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), TCSI (RC).

International Inventories

International Internet										
Chemical name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Continuous filament glass fiber, non-respirable 65997-17-3	Х	Х		Х		Х	Х	Х	Х	Х
Formaldehyde 50-00-0	Х	Х		Х		Х	Х	Х	Х	Х

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	SARA 313 - Threshold Values %
Formaldehyde - 50-00-0	0.1

CWA (Clean Water Act)

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Formaldehyde 50-00-0	100 lb	-	-	Х

CERCLA

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Formaldehyde	100 lb	100 lb	RQ 100 lb final RQ
50-00-0			RQ 45.4 kg final RQ

US State Regulations

California Proposition 65

This product can expose you to chemicals including those listed below, which is [are] known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Chemical name	California Proposition 65
Formaldehyde	Carcinogen
50-00-0	

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Formaldehyde	Х	X	Х
50-00-0			

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

Prepared By	FCs
Creation Date	28-May-2015
Revision Date	21-Jan-2019
Revision Note	review of Section 2 add of synonyms and components review

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