



Product Safety Data Sheet

Section 1 - Product and Company Identification

Product Name(s): Continuous Filament Mat, Chopped Strand Mat

Manufacturer Information:

N.V. Owens Corning S.A.
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B-1170 Brussels Belgium

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From Country	Free Phone	Free Fax	From Country	Free Phone	Free Fax
Austria	06608981	06608978	Ireland	1800553215	1800553216
Belgium	080013501	080014272	Italy	800873526	800878473
Denmark	80010174	80010175	Luxembourg	08002759	08002758
Finland	980013252	980013250	Norway	80011414	80011413
France	0800907729	0800907616	Portugal	08008329524	08008329523
Germany	0130811933	0130811932	Spain	900993261	900993260
Great Britain	0800962100	0800960529	Sweden	020795843	020795842
Holland	060221566	060221563	Switzerland	0800556192	0800556191

Emergency Contacts:

Emergencies ONLY (after 5pm US ET and weekends): +1-419-248-5330 (English Only).

Health and Technical Contacts:

Health Issues Information (8am-5pm CET): phone +32.87.692.467
Fax +32.87.692.402

Section 2 – Composition / Information on Ingredients

CAS #	Component	Wt. Percent
65997-17-3	Fibrous glass (Fibre Glass Continuous Filament)	98 -100
Mixture	Size (Surface Coating)	0 - 15

Component Related Regulatory Information

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

Note: As manufactured, continuous filament glass fibres are not respirable. Continuous filament glass products that are chopped, crushed or severely mechanically processed during manufacturing or use may contain a very small amount of respirable particulate, some of which may be glass shards. Refer to Sections 8 & 11

Section 3 - Hazards Identification

Emergency Overview:

Appearance and Odor: White/off-white colored solid with no odor.

No unusual conditions are expected from this product.



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Eye Contact:

This product may cause irritation to the eyes. Dusts and fibres from this product cause mechanical irritation.

Skin Contact:

Dust and fibres from this product may cause itching and short term mechanical irritation.

Ingestion:

Dusts and fibres from this product cause mechanical irritation.

Inhalation:

Dusts and fibres from this product may cause irritation of the nose, throat, and respiratory tract.

Medical Conditions Aggravated by Exposure:

Respiratory or skin conditions that are aggravated by mechanical irritants may be at an increased risk for worsening from exposure to this product.

Section 4 - First Aid Measures

Inhalation:

If inhaled, immediately remove the affected person to fresh air. If symptoms persist, get medical attention.

Eye Contact:

Immediately flush eyes with plenty of water for at least 15 minutes. Do not rub or scratch eyes. Rubbing or scratching may cause mechanical damage. If irritation persists get medical attention.

Skin Contact:

For skin contact, wash immediately with soap and water. Use a wash cloth to help remove fibres. To avoid further irritation, do not rub or scratch affected areas. Rubbing or scratching may force fibres into the skin. If irritation persists, get medical attention.

Ingestion:

Ingestion of this material is unlikely. If it does occur, watch the person for several days to make sure that intestinal blockage does not occur.

Section 5 - Fire Fighting Measures

Flash Point: None

Method Used: Not applicable

Flammability Classification: Non-flammable

Upper Flammable Limit (UFL): Not applicable

Lower Flammable Limit (LFL): Not applicable

Extinguishing Media:

Dry chemical, foam, carbon dioxide, water fog.

Unusual Fire & Explosion Hazards:

None known.

Fire-Fighting Instructions:

No special procedures are expected to be necessary for this product. Use general accepted fire fighting procedures for packaging materials. Use self-contained breathing apparatus (SCBA) and fire fighting protective gear in a sustained fire.

Hazardous Combustion Products:

Primary combustion products are carbon monoxide, carbon dioxide and water. Other undetermined compounds could be released in small quantities.

Section 6 – Accidental Release Measures

Releases of this product to the land, water and air may require reporting to the proper authorities. Refer to local and applicable national regulations.

Land Spill:

Scoop up material and put into a suitable container for disposal as a non-hazardous waste.



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Water Spill:

This material will sink and disperse along the bottom of waterways and ponds. It can not easily be removed after it is waterborne; however, the material is non-hazardous in water.

Air Release:

This material will settle out of the air. If concentrated on land, it can then be scooped up for disposal as a non-hazardous waste.

Section 7 – Handling and Storage

Storage Temperature: Not applicable

Storage Pressure: Not applicable

Handling & Storage Procedures: No special procedures are required for this material.

Section 8 – Exposure Controls / Personal Protection

Exposure Guidelines:

Country	Particulate	(8 hr TWA) mg/m ³	Man Made Vitreous Fibres:	(8 hr TWA) Fibres / ml
Austria	Fine dust: (yearly avg) (monthly average)	6 12	Fibres:	0,5
Belgium	Dust	10	None	--
Denmark	Inert respirable dust: Total inert dust:	5 10	Fibres:	1
Finland	Inert Organic Dust	10	Fibres:	1
France	Total Dust:	10	Respirable fibres:	1
Germany	Alveolar dust:	6	Respirable Fibres:	0,25
Ireland	Inhalable dust:	5	Respirable Fibres:	2
Italy	Dust :	10	Fibres:	1
Netherlands	Respirable dust: General dust:	5 10	Respirable fibres:	1
Norway	Inert respirable dust: Total inert dust:	5 10	Fibres:	1
Portugal	Fibrous dust: Total dust	1 4	None	--
Spain	Dust :	10	Fibres:	1
Sweden	Respirable dust: Total dust	5 10	Fibres:	1
Switzerland	Dust :	6	Respirable fibres	0,5
U.K.	Inhalable dust : Total dust :	5 10	Respirable fibres:	2

Refer to local legislation for exposure limits in other countries.



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Other Applicable Exposure Guidelines

Fibrous glass (Fiber Glass Continuous Filament) (65997-17-3)

ACGIH: Inhalable fraction: (5) mg/m³ TWA (related to Fibrous glass)
Respirable fraction: (1) fiber/cc (related to Respirable particulate with fiber-like dimensions (glass shards))

The TLV-TWA for respirable continuous filament glass fibers of 1 fiber/cc was adopted by ACGIH (1998) to protect workers against mechanical irritation. The TLV-TWA of 5 mg/m³ was adopted for nonrespirable glass filament fiber, measured as inhalable dust, to prevent mechanical irritation of the upper respiratory tract.

Note: As manufactured, continuous filament glass fibers are not respirable. Continuous filament glass products that are chopped, crushed or severely mechanically processed during manufacturing or use may contain a very small amount of respirable particulate, some of which may be glass shards.

Ventilation:

Ventilation should effectively remove and prevent buildup of any dust generated from the handling of this product. Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection:

Use a properly fitted appropriate particulate filter respirator (such as FFF1/P1 or FFF2/P2) for particulate concentrations exceeding the Occupational Exposure Limits. Select a respirator providing adequate protection and conforming to CEN standards or other applicable requirements. Follow respirator manufacturer's instructions.

Skin Protection:

Normal work clothing (long sleeved shirts and long pants) is recommended. Use impervious gloves. Skin irritation is known to occur chiefly at the pressure points such as around the neck, wrists, waist and between the fingers.

Eyes/Face Protective Equipment:

Wear safety glasses, goggles or face shield.

Work Practices:

Use good industrial hygiene practices in handling this material. Remove material from the skin and eyes after contact. Remove material from clothing using vacuum equipment (never use compressed air). Always wash work clothes separately from other clothing. Wipe out the washer or sink to prevent loose glass fibers from getting on other clothing. Keep the work area clean of dusts and fibers released during processing or fabrication. Use vacuum equipment to clean up product. Avoid dry sweeping or using compressed air as these techniques re-suspend dusts and fibers into the air. Eye wash fountain and emergency showers are recommended.

Section 9 – Physical & Chemical Properties

Vapor Pressure (mm HG @ 20 C):	Not applicable	pH:	Not applicable
Vapor Density (Air=1):	Not applicable	Evaporation Rate (n-Butyl Acetate=1):	Not applicable
Specific Gravity (Water=1):	2.60	Boiling Point:	Not applicable
Solubility in Water:	Insoluble	Viscosity:	Not applicable
Appearance:	White/Off-white	Physical State:	Solid
Odor Type:	None	Freezing Point:	Not applicable



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Section 10 – Chemical Stability & Reactivity Information

General:

This is a stable material.

Conditions to Avoid:

None expected.

Incompatible Materials:

None expected.

Hazardous Decomposition Products:

Primary combustion products are carbon monoxide, carbon dioxide and water. Other undetermined compounds could be released in small quantities.

Hazardous Polymerization:

Will not occur.

Section 11 – Toxicological Information

Acute Toxicity:

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. High exposures may cause difficulty breathing, congestion, and chest tightness.

Chronic Toxicity:

There are no known chronic health effects connected with long term use or contact with these products.

Carcinogenicity:

Fiber Glass Continuous Filament: According to the E.U. Directives the continuous filament glass fibers in these products are not classified as carcinogenic. Continuous filament glass fibers are not within the scope of Directive 67/548/EEC per amendment 97/69/EC, since they are not “fibres with random orientation.”

The International Agency for Research on Cancer (IARC) in June, 1987, categorized fiber glass continuous filament 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 fiber glass continuous filament as a possible, probable, or confirmed cancer causing material.

ACGIH: A4 – Not Classifiable as a Human Carcinogen (related to Glass filaments)

IARC: Group 3 Not classifiable with respect to human carcinogenicity. Monograph 43; 1988 (related to Glass filaments)

The continuous filament glass fibers in these products are “non-respirable.” Products that are chopped, crushed or severely mechanically processed during manufacture or use contain small amounts of respirable glass “fiber-like” fragments (WHO Criteria > 5 microns in length; ≤ 3 microns in diameter and an aspect ratio ≥ 3:1 (length to width ratio). Available exposure monitoring data indicates that airborne exposure concentrations of respirable glass “fiber-like” fragments are expected to be extremely low or non-detectable.

Related Material:

A recent IOM laboratory study with rats was conducted using a different product (“respirable” special application glass fiber) with comparable composition and durability. Experimental animals, breathing extremely high concentrations (1000 f/cc) of special application respirable e-glass fibers on a long-term basis, developed advanced fibrosis, lung cancer and mesothelioma.



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Section 12 – Ecological Information

Ecotoxicity:

A: General Product Information

No data are available for this product. This material is not expected to cause harm to animals, plants or fish.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

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

Environmental Fate:

No data are available for this product.

Section 13 – Disposal Considerations

Disposal Instructions:

Consult appropriate authorities before disposing waste material. Dispose, recycle or re-use waste material according to local and national requirements.

Section 14 – Transportation Information

International Transport:

	IATA	RID/ADR	IMO
Shipping Name:	Not regulated	Not regulated	Not regulated
Hazard Class:	None	None	None
UN Number:	None	None	None
Packing Group:	None	None	None
Notes:	None	None	None

Section 15 – Regulatory Information

Government Regulations:

Continuous filament glass products are not classified as a "Dangerous Substance" or a "Dangerous Preparations" under the EU Directive 88/379/EEC.

Classification and Labeling (EEC):

This product is not required to be labeled under Council Directives 88/379/EEC, 67/548/EEC, Annex I, and 97/69/EC,

Other Regulations

Comply with all other national or local regulations regarding the use, transport, recycling re-use, or disposal of these products.

Component Analysis - Inventory

Component	CAS #	TSCA	EINECS
Glass, Oxides (Fiber Glass Continuous Filament)	65997-17-3	Yes	266-046-0



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Section 16 – Other Information

Key/Legend

TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NTP = National Toxicology Program; WHO = World Health Organization; IATA = International Air Transport Association; RID = European Rail Transport; ADR = European Road Transport; IMO = International Maritime Organization; MEL = Maximum Exposure Limits; TWA = Time Weighted Average; STEL = Short-term Exposure Limit

Ref: IOM Study: Source: NAIMA 1997. Unpublished letter. Rat inhalation studies with E-Glass micro-fibers at Institute of Medicine, Scotland. January 30, 1997. Letter to USEPA TSCA 8(e) coordinator.

Revision Summary: This is a new Product Safety Data Sheet prepared to conform to EU Directive (91/155/EEC, as amended 93/112/EC). These products are not regulated as “dangerous substances” or “dangerous preparations” per EC Directive 88/379/EEC. Read this information carefully.

Refer to MSDS Number 15-MSD-49668-01-D (dated February 16, 2004 or as updated) providing information complying with U.S. OSHA and Canadian WHMIS requirements.

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This is the end of MSDS # 15-MSD-44968-21