

according to EC Directive 2001/58/EC

Classification	Personal protective equipment	Transport Symbole
	 	not regulated

Preparation Date : 23-Feb-2006

Revision Date 6-03-08

Revision Number 4

## 1. PRODUCT and COMPANY IDENTIFICATION

<b>Generic Product Name</b>	Continuous AR-Glass Fiber Products
<b>Commercial names</b>	<b>ARcotex<sup>®</sup>, Cem-FIL<sup>®</sup>, Anti-Crak<sup>®</sup></b>
<b>Recommended uses</b>	Cement, concrete and others mineral matrix reinforcement Resins in corrosive medium reinforcement
<b>Producer details</b>	OWENS-CORNING COMPOSITES LLC One Owens Corning Parkway Toledo, 43659 OHIO United States www.ocvreinforcements.com
<b>Emergency telephone number</b>	Emergencies ONLY (after 5 pm AND weekends) phone 001-419-248-5330  CHEMTREC (24h/24) phone 001-800-424-9300
<b>Health and Technical contacts</b>	Health Issues Information (8am-5pm CET): European R&D: + 33 479 75 53 00 USA 1-419-248-8234  Technical Product Information (8am-5pm CET): European Headquarter: +32 2 674 8320 USA: 1-800-GET-PINK or 1-800-438-7465

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

No hazardous ingredients in the meaning of European Directives 67/548/EEC and 99/45/EC and their latest amendments.

	CAS-No	EINECS-No	Weight %	Classification
Glass Fiber - continuous filament, non-respirable	NA		85-100	-
Sizing/binder	NA		0-15	-

**For the full text of the R phrases mentioned in this Section, see Section 16**

### 3. HAZARDS IDENTIFICATION

This product is not hazardous according to European Directive 67/548/EEC and 99/45/EC and their latest amendments.

**Most important hazards**

**R-phrases** Does not apply

**Physical-chemical properties** No information available

**Properties affecting health** Dust and fibers may cause mechanical irritation to the eyes, skin and mucous membranes. Ingestion may cause transient irritation of throat, stomach and gastrointestinal tract. Inhaling dust or fibers may cause short-term irritation of the mouth, nose and upper airways and of the intestines. The fibers cannot be carried into the lower lung passages when inhaled due to the physical properties of the fibers.

**Environmental hazard** No information available

### 4. FIRST AID MEASURES

**Eye contact**

- Rinse immediately with plenty of water, also under the eyelids, for at least 15 Minutes
- Do not rub or scratch eyes
- If eye irritation persists, consult a specialist

**Skin contact**

- Wash off immediately with soap and cold water.
- Use a wash cloth to help remove fibers.
- DO NOT rub or scratch affected areas.
- Remove contaminated clothing.
- If skin irritation persists, call a physician
- DO NOT use warm water because this will open up the pores of the skin, which will cause further penetration of the fibers.

**Ingestion**

- Accidental ingestion of this material is unlikely
- If this does occur, watch person for several days to make sure intestinal blockage does not occur
- Rinse mouth with water and drink water to remove fibers from the throat
- If symptoms persist, call a physician

**Inhalation**

- Move to fresh air
- If symptoms persist, call a physician

**Notice to physician** Treat symptomatically

### 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media**

- dry chemical
- foam
- carbon dioxide (CO<sub>2</sub>)
- water fog

**Unsuitable Extinguishing Media** No information available

**Special Hazards Arising from the Chemical** Release of small quantities of gases or vapors may occur due to prolonged exposure to heat or fire.

**Protective Equipment and Precautions for Firefighters**

Wear self-contained breathing apparatus (SCBA) and full fire fighting protective gear.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions**

Avoid contact with the skin and the eyes.

**Environmental precautions**

Prevent further leakage or spillage if safe to do so.

**Methods for Clean-up**

- Pick up and transfer to properly labelled containers
- Use an industrial vacuum cleaner with a high efficiency filter to clean up dust and fiber contamination
- Avoid dry sweeping
- After cleaning, flush away traces with water

**7. HANDLING AND STORAGE**

**Handling**

- Wear personal protective equipment
- Avoid dust formation
- Do not breathe dust

**Storage**

Keep product in its packaging until use to minimize potential dust generation.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Exposure limit(s)

	EU	United Kingdom	La France	Spain	Germany
Glass Fiber - continuous filament, non-respirable		respirable dust 5mg/m <sup>3</sup> total dust 10mg/m <sup>3</sup>	VME:1fiber/cm <sup>3</sup> Total dust: 10mg/m <sup>3</sup>	dust:10mg/m <sup>3</sup> VLA-ED: 1 fiber/cm <sup>3</sup>	Respirable fibres: 0.25fibre/ml Alveolar dust: 6mg/m <sup>3</sup>
	Italy	Portugal	Netherlands	Finland	Austria
Glass Fiber - continuous filament, non-respirable	1 fibre/ml Dust: 10mg/m <sup>3</sup>	Fibrous dust: 1mg/m <sup>3</sup> Total dust: 4mg/m <sup>3</sup>	MAC(general dust): 10 mg/m <sup>3</sup> Respirable dust: 5mg/m <sup>3</sup>	1 fibre/ml Inert dust: 10mg/m <sup>3</sup>	0.5 fibre/ml Fine dust : 6mg/m <sup>3</sup> (yearly avg)
	Switzerland	Poland	Norway	Ireland	Denmark
Glass Fiber - continuous filament, non-respirable	0.5 fibre/ml Dust: 6mg/m <sup>3</sup>		1 fibre/ml Inert respirable dust: 5mg/m <sup>3</sup> Total inert dust: 10mg/m <sup>3</sup>	2 fibres/ml Inhalable dust: 5mg/m <sup>3</sup>	1 fiber/ml inert respirable dust 5mg/m <sup>3</sup> total inert dust: 10mg/m <sup>3</sup>

Occupational exposure controls

**Engineering Controls**

- Provide local exhaust and/or general ventilation to maintain exposure below regulatory and recommended limits. Dust collection system must be used in transferring operations, cutting or machining or other dust generating process. Vacuum or wet clean-up methods should be used

Personal protective equipment

**Respiratory protection**

- When workers are facing concentrations above the exposure limit they must use appropriate certified respirators

**Eye/face Protection**

- Safety glasses with side-shields

**Skin Protection**

- protective gloves

- Long sleeved shirt and long pants

- General Hygiene Considerations**
- Wash hands before breaks and immediately after handling the product
  - Avoid contact with skin, eyes and clothing
  - Avoid getting dust into boots and gloves through wrist bands and pant tucks
  - Remove and wash contaminated clothing before re-use

**Environmental exposure controls** No information available

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	white	
<b>odor</b>	odorless.	
<b>Odor Threshold</b>	does not apply	
<b>Physical State</b>	Solid.	
<b>pH</b>	Does not apply	
<b>Flash point</b>	Does not apply	
<b>Autoignition temperature</b>	Not available	
<b>Boiling point/range</b>	Does not apply	
<b>Melting point/range</b>	>800°C	
<b>Flammability Limits in Air</b>	<b>lower /</b>	<b>upper /</b>
<b>Explosive properties</b>	Does not apply	
<b>Oxidizing properties</b>	Does not apply	
<b>Evaporation rate</b>	Does not apply	
<b>Vapor Pressure</b>	Does not apply	
<b>Vapor Density</b>	Does not apply	
<b>Specific Gravity</b>	~2.5-2.6 (water = 1)	
<b>Water solubility</b>	insoluble	
<b>Partition coefficient (n-octanol/water)</b>	/	
<b>Viscosity</b>	Does not apply	
<b>Oxidizing properties</b>	Does not apply	

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable under normal conditions
<b>Conditions to avoid</b>	None expected.
<b>Incompatible Materials</b>	No materials to be especially mentioned
<b>Hazardous decomposition products</b>	See Section 5 of MSDS for hazardous decomposition products during a fire
<b>Possibility of Hazardous Reactions</b>	Hazardous polymerisation does not occur

## 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



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**14. TRANSPORT INFORMATION**

**IMDG/IMO – RID- ADR- ICAO- IATA - DOT - TDG - MEX :** non regulated

**15. REGULATORY INFORMATION**

**EU Labeling** This product is not hazardous according to European Directive 99/45/EC, 67/548/EEC and their latest amendments

**R -phrase(s):**Not applicable

**S -phrase(s):**Not applicable

**International Inventories**

Continuous filaments glass fiber products are articles and therefore are exempted from registration on National Chemical Inventories.

**16. OTHER INFORMATION**

AR Glass contains traces of naturally-occurring radioactive materials. The total content of Uranium and Thorium is less than 500 ppm with a total specific activity below 20Bq/g

**Text of R phrases mentioned in Section 2**

No information available

**Preparation Date** 23-Feb-2006

**Revision Date** 6 -March-2008

**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**