

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

Generic Product Name	Continuous AR-Glass Fiber Products
Commercial names	ARcotex[®], Cem-FIL[®], Anti-Crak[®]
Recommended uses	Cement, concrete and others mineral matrix reinforcement Resins in corrosive medium reinforcement
Producer details	OWENS-CORNING COMPOSITES LLC One Owens Corning Parkway Toledo, 43659 OHIO United States www.ocvreinforcements.com
Emergency telephone number	Emergencies ONLY (after 5 pm AND weekends) phone 001-419-248-5330 CHEMTREC (24h/24) phone 001-800-424-9300
Health and Technical contacts	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(s) 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 (CO₂)
- 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 ³ total dust 10mg/m ³	VME:1fiber/cm ³ Total dust: 10mg/m ³	dust:10mg/m ³ VLA-ED: 1 fiber/cm ³	Respirable fibres: 0.25fibre/ml Alveolar dust: 6mg/m ³
	Italy	Portugal	Netherlands	Finland	Austria
Glass Fiber - continuous filament, non-respirable	1 fibre/ml Dust: 10mg/m ³	Fibrous dust: 1mg/m ³ Total dust: 4mg/m ³	MAC(general dust): 10 mg/m ³ Respirable dust: 5mg/m ³	1 fibre/ml Inert dust: 10mg/m ³	0.5 fibre/ml Fine dust : 6mg/m ³ (yearly avg)
	Switzerland	Poland	Norway	Ireland	Denmark
Glass Fiber - continuous filament, non-respirable	0.5 fibre/ml Dust: 6mg/m ³		1 fibre/ml Inert respirable dust: 5mg/m ³ Total inert dust: 10mg/m ³	2 fibres/ml Inhalable dust: 5mg/m ³	1 fiber/ml inert respirable dust 5mg/m ³ total inert dust: 10mg/m ³

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

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

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions
Conditions to avoid	None expected.
Incompatible Materials	No materials to be especially mentioned
Hazardous decomposition products	See Section 5 of MSDS for hazardous decomposition products during a fire
Possibility of Hazardous Reactions	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

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