

Material Safety Data Sheet - Group 5

Pultruded profiles made of glass fibre reinforced, fire-retardant vinylester

Date: Second edition, 27/02-2007.

1. Identification of material and producer

Product Name and/or Number:

Fiberline P4510

Fiberline P4810.

1. Product Type/Field of Application

Pultruded profiles made of glass fibre reinforced, fire-retardant vinylester. Find application as semi-manufactures within all industries, where this proves to be advantageous or required due to the properties of the product.

Company Name and Address, Telephone and Fax Number

Fiberline Composites A/S

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Application limitations:

None within the technical field of application of the product.

Demands for special education: None.

2. Material Composition/Information on the Material Content

Glassfibre-reinforced and cured vinylester with a glass fibre diameter of 9-20 µm. The liquid vinylester contains styrene, which is crosslinked when cured. The cured material may retain small quantities of styrene (<1%).

Content of fire-retardant substances in the cured work pieces:

Chlorinated Parafin (C14-C17): 0-10%

Antimony Trioxide (ATO): 0-8% - classification Xn, R40 carc 3 (carcinogenic)

Aluminium Trihydroxide (ATH): 0-15%

3. Possible Dangers

Profiles of fibre glass reinforced fire retardant vinylester have no hazardous properties. However, dust resulting from the grinding and cutting process may irritate the eyes, the mucous membrane and the skin. Grinding and cutting dust may release very small quantities of antimony trioxide.

4. First Aid Measures

Eye Contact: Open the eyes widely and wash with plenty of water. Remove contact lenses, if any. Call a doctor if the irritation lasts.

Skin Contact: Dust resulting from the grinding or cutting process must be removed thoroughly by means of soap and water.

Inhalation: If large amounts of grinding and cutting dust are inhaled by accident, take the injured person outside to breathe fresh air. Call a doctor if the irritation lasts.

5. Fire Fighting Measures

Extinguishing medium: Carbon dioxide, powder, foam or water. During fire small quantities of chlorine and normal smoke gasses will be released (most carbon monoxide, carbon dioxide and carbon particles).

6. Measures in Case of Accidental Emission



The product cannot cause any emission to occur.

7. Handling and Storage

Handling: The grinding and cutting process may produce dust containing glass fibres and antimony trioxide. Please provide sufficient ventilation or wear dust filtering masks, in order to avoid inhalation. The product contains a small styrene residue, which may be released from the cut surface.

If the threshold limiting value of organic dust of 3 mg/m³ is observed, the content of antimony trioxide in the dust will not exceed the threshold limiting value of 0.5 mg/ m³.

Storage: No special measures.

8. Exposure Control/Protective Equipment

Technical Measures: Sufficient ventilation and local exhaust ventilation must be provided during processing.

Protective Equipment

Breathing Protection: If the ventilation proves to be insufficient during the grinding or cutting process, a permissible dust guard must be worn.

Eye Protection: Safety glasses must be worn.

Skin Protection: No other protection but clean clothing covering the whole body. In order to avoid irritation, a protective cream may be applied on the skin under the collar and on the wrists.

Threshold limiting values according to list from Danish Working Environment Service, of October 2002:

Antimony compounds: 0.5 mg/m³ (as antimony)

Styrene: 25 ppm – 105 mg/m³ LHK

Organic dust: 3 mg/m³

Mineral dust: 10 mg/m³ (not respirable)

The glass fibre used has a diameter of 9-20 µm and should not be mistaken for glass or mineral wool.

9. Physical and Chemical Properties

Physical state: A solid heterogeneous material.

Smell: The product may have a weak smell of styrene, which has a very low smell limit (approx. 0.3 ppm).

Spontaneous combustion: No.

Water-solubility: Not soluble in water.

10. Stability and Reactivity

The product will remain stable under the recommended storage and handling conditions.

11. Toxicological Information

Inhalation: The main part of the grinding- and cutting dust will be caught by the mucous membranes of the respiratory tract. Dust getting into the lungs will cause irritation.

Eyes: Grinding and cutting dust may cause irritation.

Skin: Grinding and cutting dust may cause temporary irritation.

12. Environmental Information

The product is very resistant and practically not degradable in the environment.

13. Waste Disposal

Residuals can be deposited or will degrade during incineration.

14. Transport

Not classified as dangerous goods.

15. Information on regulations



Glass-fibre reinforced profiles need not be classified according to the regulations of the Danish Ministry of Environment regarding classifications, labelling etc. Styrene and antimony trioxide are included in the list of carcinogens of the Danish Working Environment. Styrene is also included in the guidelines on organic solvents published by the Danish Working Environment.

However, for cured glass fibre with content of antimony trioxide, only part 2 of the regulations no. 906 of 8 November 2002 on measures taken to prevent exposure to carcinogenic substances and materials is valid. Non-dust producing working processes are not included in the regulations, as there is no risk of exposure to antimony trioxide.

16. Miscellaneous

The above information is given on the basis of our knowledge of today and is based on Danish and EU legislation. The instructions given are subject to the product being used for its normal purpose as stated under Item 1. It will, however, always be the responsibility of the user to observe the national legislation in his own country. The information given in this Material Safety Data Sheet is to be understood as recommendable measures for safe handling of the product and represents no guaranty for the product properties.

This material safety data sheet has been made in co-operation with the Danish Plastics Federation.