

# Material Safety Data Sheet - Group 7

Pultruded profiles made of glass fibre reinforced, halogen-free, fire-retardant polyester  
Date: Second edition, 27/02-2007.

## 1. Identification of material and producer

Product Name and/or Number:

- Fiberline P4508
- Fiberline P4518
- Fiberline P4528
- Fiberline P6008
- Fiberline P6009

Product Type/Field of Application

Pultruded profiles made of glass fibre reinforced, halogen-free, fire-retardant polyester. The products find application in all industries, where the material-technical properties make it advantageous or necessary.

Company Name and Address, Telephone and Fax Number

Fiberline Composites A/S

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Application Restrictions:

None within the technical application area of the product.

Demands for special education:

None.

## 2. Material Composition/Contents

Halogen-free, fire-retardant and cured polyester reinforced with a diameter of 9-20 µm. In the liquid state polyester contains styrene, which will crosslink during curing. The cured material may contain small quantities of styrene (<1%).

Fire-retardants in cured work pieces:

Aluminium Trihydroxide (ATH) 0-40%.

## 3. Identification of Danger

Profiles made of glassfibre-reinforced polyester are non-hazardous products in themselves. Dust arising from grinding or cutting may cause irritation to eyes, mucous membranes and skin.

## 4. First Aid Measures

Eye Contact:

Open eyes widely and rinse with plenty of water.

Remove contact lenses, if any. See a doctor if irritation persists.

Skin Contact:

Grinding or cutting dust should be washed off carefully using water and soap.

Inhalation:

If large quantities of dust have been inhaled, go outside to breathe fresh air. See a doctor if irritation persists.

## 5. Fire Fighting

Fire-fighting equipment:



Water, powder, foam or CO<sub>2</sub>. Fires will cause normal smoke gasses to be released, mostly carbon monoxide, carbon dioxide and carbon particles.

## 6. Measures in Case of Accidental Emission

The product cannot cause emissions.

## 7. Handling and Storage

Handling:

Grinding or cutting may cause the generation of dust containing glass fibres. Provide adequate ventilation or use a dust filter mask to avoid the inhalation of dust. The product contains a very low amount of styrene which may be released from the cut area.

Storage:

No particular measurements.

## 8. Exposure Control/Protective Equipment

Technical Measures:

Provide adequate overall ventilation and local exhaust ventilation in the area where grinding and cutting take place.

Personal Protection:

Breathing Protection: If ventilation is inadequate in areas where grinding and cutting are carried out, an approved dust filter should be worn.

Eye Protection: Safety glasses must be worn.

Skin Protection: Clean clothing covering the whole of the body. A suitable protective lotion may be used round the neck and wrists to prevent irritation.

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

Styrene: 25 ppm – 105 mg/m<sup>3</sup> LHK

Organic dust: 3 mg/m<sup>3</sup>

Mineral dust: 10 mg/m<sup>3</sup> (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:

Solid, heterogeneous material.

Smell:

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

Self-ignition:

No

Water-solubility:

Not soluble in water.

## 10. Stability and Reactivity

The product remains chemically stable under normal storage and temperature conditions.

## 11. Toxicological Information

Inhalation:

The majority of the grinding- and cutting dust will be caught by the mucous membranes of the respiratory passages. Dust getting into the lungs will cause irritation.

Eyes:

Grinding/cutting dust may cause irritation.

Skin:

Grinding/cutting dust may cause temporary irritation.



## **12. Environmental Information**

The product is very resistant and practically not degradable by nature.

## **13. Waste Disposal**

Residuals may be deposited or incinerated.

## **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 is included in the list of carcinogens of the Danish Working Environment as well as in the guidelines on organic solvents published by the Danish Working Environment. Cured polyester as used in profiles is not included in the Regulation no. 906 of 8 November 2002 on measures taken to prevent exposure to carcinogenic substances and materials.

## **16. Miscellaneous**

The product is not included in the EEC Directive 99/155/EEC on products requiring material safety data sheets. This material safety data sheet has been worked out in accordance with the above Directive, however. 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 mentioned under point 1. The responsibility to meet the requirements of national legislation will always lie with the user. The information given in this material safety data sheet should only be regarded as a description of safe handling of the product and represents no guarantee on the properties of the product.

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