



Pultruded Profile Hazard Data Sheet

1 Generic Description.

A pultruded profile consists of a high volume fraction of reinforcing fibre encapsulated in an organic resin matrix.

2 Composition.

The major components are glass fibre reinforcement in a cured polyester resin matrix. The resin mix is formulated to contain fire retardant additives and will also contain pigment, internal release agents and inert filler.

3 Hazards Identification.

Pultruded profiles do not constitute a hazard as supplied. Splinters of glass fibre can be generated when the profile is broken. Dust will be generated when the profile is machined.

In a fire carbon dioxide, carbon monoxide and black smoke will be generated by the destruction of the resin matrix. The destruction of the fire retardant additives can liberate halogenated compounds, phosgene and other potentially toxic compounds

4 First Aid Measures.

Splinters from a broken profile should be attended to immediately while the splinter is visible as GRP does not show on an X-ray.

5 Fire Fighting.

Fire retardant pultruded profiles are not flammable or easily ignited but will be destroyed in a fire.

The presence of potentially toxic chemicals from the fire retardant additives in the smoke from a fire requires the use of suitable protective equipment such as goggles and breathing apparatus.

6 Accidental Release.

Pultruded profiles are inert solids so there are no special considerations.

7 Handling and Storage.

There are no special considerations.

8 Exposure Controls - Personal Protection.

Dust will be liberated in machining operations.

The dust is classified as a ~~Nuisance Dust~~ and as such the dust level in the working atmosphere must be kept below 10 mg per cubic metre.

Due to the presence of fire retardant additives in the resin matrix a suitable dust mask should be worn.

When handling broken GRP the use of suitable heavy-duty gloves is recommended to prevent splinters entering the body, as X-rays cannot detect these.

When cutting or machining GRP suitable eye protection is recommended.

8 Physical and Chemical Properties.

Pultruded profiles are stiff and strong, they do not conduct heat or electricity and are chemically inert.

9 Stability and Reactivity.

Pultruded profiles are stable and unreactive.

10 Toxicological Information.

Pultruded profiles do not constitute a hazard.

11 Ecological Information.

Pultruded profiles are very stable. They are not biodegradable.

12 Disposal Considerations.

As an inert material pultruded profiles can normally be disposed of as ~~Commercial Landfill~~ subject to local regulations.

13 Transport.

There are no regulations specific to the transport of pultruded profiles and none of the existing regulations are applicable.

15 Regulatory Information.

Pultruded profiles do not have a Hazard Classification and there are no Risk or Safety phrases required on an MSDS.

16 Other Information.

Any queries please contact J. R. Hartley, Technical Manager - Fibreforce Composites Ltd.