

SAFETY USAGE GUIDE SHEET

Fiberglass Reinforced Polyester pultruded profiles (FRP)

Review 05 dated 30/12/2014

0. INTRODUCTION

The European norm N° 1907/2006 (REACH) that focusses on the chemical products and is in force since June 1st, 2007 DEMANDS Safety Sheets (SDS) only for the dangerous materials and formulations.

Our **fiberglass reinforced polyester pultruded profiles (FRP)** comply with REACH and for this reason, the supply of an SDS it is not required.

However, by means of a new document called **Safety usage guide sheet, M.M. S.r.l.** wants to give to her customers the necessary information for the safe handling and use of the **fiberglass reinforced polyester pultruder profiles (FRP)**.

1. IDENTIFYING THE COMPANY'S PRODUCT

Name of the product:	Pultruded profile in polyester reinforced with glass fibers (FRP)
Use:	Parapets, vertical ladders, stairways, fences, platforms etc.
Producer's address:	M.M. S.r.l., Via Antonio Zanussi n. 300/302, 33100 Udine – ITALY – web www.mmgrigliati.com e-mail info@mmgrigliati.it phone +390432522970 fax : +390432522253
Health and Safety:	Information regarding health and safety (08:00-18:00 from Monday to Friday) M.M. S.r.l. +390432602218
Technical information:	Product technical information (08:00-18:00 from Monday to Friday) M.M. S.r.l. +390432602218

2. IDENTIFYING DANGEROUSNESS

In consideration of its components, this product is not classified as dangerous according to the European Directives 67/548/EEC, 99/45/EC and their last amendments.

This section identifies which are the possible dangers related to the item, like the shape, the dimensions and other physical characteristics.

The exposure to cutting or gauging dust could cause irritation to skin, eyes or breathing apparatus. The contact of the eyes with the scattered dust could cause an immediate irritation or inflammation and medical aid or a medical consult may be required in order to avoid damages to the visual apparatus.

The inhalation of the dust from cutting and gauging of the product could cause irritation to nose and throat including cough and a suffocation feeling which depends on the exposure level.

The contact to the dust or the glass fibers could cause skin irritation, abrasion, dryness and itching.

Even if the swallowing of the product is unlikely, it could cause irritation, sore throat and vomit.

3. COMPOSITION/INFORMATION ON COMPONENTS

The Glass fiber Reinforced Polyester (GRP) pultruded profiles are products which comply with the REACH regulation (1907/2006/ER).

Material	% in weight
Polymerized Polyester Resin	30 ÷ 40 %
Glass fibers	40 ÷ 60 %
Filler (Al (OH) ₃ ,Ca CO ₃)	0 ÷ 30 %

Filler : Aluminum Hydrate, Calcium Carbonate

4. FIRST AID ACTIONS

Contact with eyes:

- Rinse abundantly eyes and eyelids with water for 15 minutes.
- Do not scratch or rub the eyes.
- If irritation persists, see a specialist.

Contact with skin:

In case of irritation:

- Immediately wash with soap and cold water.
- DO NOT use warm water which would open the skin pores and increase the penetration of glass fibers.
- DO NOT scratch or rub the area.
- Remove the contaminated clothes.
- If irritation persists, see a specialist.

Inhaling

In case of irritation of the upper breathing apparatus or of the trachea:

- Bring the victim in open air.
- If indisposition persists, see a doctor.

Ingestion

- See a doctor.

5. FIRE PREVENTION

General fire risks

The material is combustible; if involved in a fire it burns releasing carbon monoxide, carbon dioxide and toxic fumes.

Firefighting methods

Water, sand, CO₂, dust, foam

Products of combustion

Carbon monoxide, carbon dioxide, toxic fumes

Fire and explosion risk

High dust concentrations are a potential explosion or fire risk

Flammability moment

450 °C

Firefighting procedure

For a wide fire use breathing apparatus

6. ACCIDENTAL SPILL METHODS

These articles do not represent risks in case of accidental spills.

Avoid conducts that produce dust.

For the removal of dust and residual fibers, eventually use an industrial vacuum equipped with a high efficiency filter

After the vacuuming, rinse the remaining traces with water.

The detailed control made on a pultruded profile sample for their disposal has allowed to classify it as a special waste NON-HAZARDOUS and NON TOXIC AND NON HARMFUL.

Their disposal must be made according to the applicable laws.

7. HANDLING AND STORAGE

The large dimension pultruded profiles could be heavy and difficult to raise and install. Their handling could cause risks to the muscles and skeletal apparatus.

Use lifting devices and a correct manual handling procedure.

Use protection anti-cutting gloves when handling.

When cutting, reduce to the least the forming and accumulation of dusts.

Use a protection mask for the respiratory system.

Keep away from heat sources and naked flames.

8. EXPOSURE CONTROL / INDIVIDUAL PROTECTION

Cutting and/or grinding produce dusts compose by:

Material	weight in %
Polymerized Polyester Resin	30 ÷ 40 %
Glass fibers	40 ÷ 60 %
Filler (Al (OH) ₃ , Ca CO ₃)	0 ÷ 30 %

Filler: Aluminum Hydrate, Calcium Carbonate

The filament glass fibers contained inside the FRP putruded profiles could not be breathed. Mechanical processes may however produce dust or suspended fibers (see section 11).

The professional exposure limits reported below are applicable both with exposure to suspended fibers and dust in the air.

Control to professional exposure

In case of production of dust (cutting, grinding, etc.) an appropriate ventilation must be used and/or an air flow of the area in order to keep a low exposure level. It is necessary to use a dust collector in any handling, cutting and manufacturing process or any other dust generating process.

Humid cleaning or a vacuum system must be used.

NOTE:

The users of continuous glass fibers must adapt themselves to the laws in force concerning the healthcare protection of the workers.

Individual protection devices

Breathing apparatus protection	Wear suitable and homologate (FFP1 or FFP2 accordingly to the air suspension concentration).
Eyes and face protection	Safety glasses with lateral protection.
Skin and body protection	Protection gloves Long sleeves shirts and long pants

Industrial hygiene good procedures

Wash the hands before breaks and immediately after handling the product.
Avoid contact with skin, eyes and clothes.
Avoid infiltration of the dust in boots and gloves by using wristbands and ankle straps.
Pull out and wash the contaminated gloves and clothes even on the inside.

9. CHEMICAL AND PHYSICAL PROPERTIES

Color	Various
Odor	Odorless
Physical state	Solid
Dry substance (105°C)	100 %
Dry residual 550°C	40 ÷ 70 %
pH	7
Specific weight	1,7 ÷ 1,8
Solubility in water	Non soluble
Flammability point	450 °C
Heat producing	4000 Kcal/Kg

10. STABILITY AND REACTIVITY

Stability	Stable
Incompatibility	Avoid contact with acids and strong alkali and strongly oxidizing agents
Decaying products	In case of fire they produce carbon monoxide, carbon dioxide and toxic fumes.

11. TOXICOLOGICAL INFORMATION

High toxicity:	Insignificant
Local effects	The dust could cause eyes and skin irritation. The irritation normally ends when exposure is over. Inhaling could cause cough, sneezing or nose and throat irritation. The exposure to high concentration could cause breathing problems, congestion and a sensation of oppression. The continuous glass fibers could not be breathed according to the World Health Organization (OMS).

12. ENVIRONMENT TOXICOLOGICAL INFORMATION

This product turned out not to be damaging for environment.

13. CONSIDERATIONS CONCERNING DISPOSAL

The analytical analysis made of a pultruded profile sample for disposal purposes, classified it as special waste NON-HAZARDOUS and NON TOXIC AND NON HARMFUL.

European Disposal Code: CER 07.02.13 – Plastic disposal.

Their disposal must be made according to the applicable laws.

14. TRANSPORT INFORMATION

This product is not classified as hazardous for transport.

15. NORMS INFORMATION

This product is non-hazardous according to 67/584/EC, 99/45/EC directives and their last amendments.

According to the European directives, the continuous filament glass fibers are not classified as carcinogenic. The 67/548/CEE directive and its amendment 97/69/CE is not applicable to the continuous filament glass fibers because they are not « casually oriented fibers ».

The (FRP) Fiberglass Reinforced Polyester is considered an article and therefore is considered registration exempted according to the REACH regulation.

16. OTHER INFORMATION

This document has been developed for the aligning to the REACH Regulation.

Advisory note

Although the information included in this safety use instruction sheet is based on the most recent information and that we consider reliable, we could not take charge of any responsibility for their use nor accept fault for losses or direct and indirect damages cause by our product. The user must control safety, quality and any other property of this product before use.