

Product range: **VIZELA
GREENSCREEN REFLECT**

Fiche N° 2700 - indice 1.0

SAFETY INFORMATION SHEET

Our products are not preparation (definition preparation according to REACH: A mixture or solution composed of two or more substances.).

The impregnation and yarn coatings and glass fabrics are not associated to a MIXTURE. All are considered as an ARTICLES according to REACH.

We, MERMET, repeat in this document (safety information sheet) the major safety points for the directive for our ARTICLES.

This document complete the technical data using but do not substitute them. It doesn't override the users to respect the laws, regulations and administrative product related for safety and health and to the protection of health and environment

The information here above data are based on our knowledge relative to the concerned product at the publishing date

I - COMPOSITION / INFORMATION ON INGREDIENTS

COMPOSANT	% Pond.
Continuous filaments of Glass fibers (type E, D ou R) Mainly silicon dioxide, aluminum, calcium, boron and magnesium, CAS : 65997-17-3	60 – 90 %
Organic treatment based with high mass Polymers and additives Mineral fillers /Aluminium	7– 30 %

II - HAZARDS IDENTIFICATION

Product considered as not dangerous in its massive state, nevertheless forming of dusts during cutting of material is source of potential risks with possible release of **glass dusts**

Continuous filaments of glass fibres are not breathable, because their diameter is superior to 3 microns, and glass fibre isn't considered as a dangerous substance, according to the 67/548/CEE directive. (see IX)

- **ACUTE (short term)** : Fiber glass continuous filament is a mechanical irritant. Breathing dusts and fibers may cause short term irritation of the mouth, nose and throat. Skin contact with dust and fibers may cause itching and short term irritation. Eye contact with dust and fibers may cause short term mechanical irritation. Ingestion may cause short term mechanical irritation of the stomach and intestines

- **CHRONIC (long term)** : There is no known health effects connected with long term use or contact with this product.-

Electrical insulator, which can induce generation of **static electricity**

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III - FIRST AID MEASURES

- If contact with eyes (dusts):** : .Immediately flush with plenty of water for at least 15 minutes. In any case contact an ophthalmologist
- If contact with skin:** : If irritation or dermatitis appear, wash the affected areas with warm water and mild soap..
- If inhalation (dusts):** : If irritation persists, seek medical attention.

IV - ACCIDENTAL RELEASE MEASURES

This material will settle out of air. If concentrated on land, it can be scooped up for disposal as non-hazardous waste..

V - HANDLING AND STORAGE

- Handling:** - Use only in well-ventilated areas (cutting).
- Handle in accordance with good personal hygiene to prevent any eye or skin contact.
- Wash hands before breaks and at the end of workday
- Storage:** - store away from water

VI - EXPOSURE CONTROLS / PERSONAL PROTECTION

- Respiratory protection:** During occasional operations releasing high quantities of dust, wear minimum FP1 or preferably FP2 EEC approved dust masks. According to American National Institute For Occupational Safety And Health (NIOSH) and Mine Safety And Health Administration (MSHA) directives, type 3M 8710 or 3M 9900 respirators can be used for example.
Fabric matches to the greengard certification
<http://www.greenguard.org/en/QuickSearch.aspx>. These ASTM methods refer to Dynamic Environmental Chamber Testing for Organic Emissions from Indoor Materials/Products. No VOC has been detected above the limit reference.
- Skin protection:** Gloves and large clothes, with long sleeves (irritation often appear at pressure points as neck, waist, wrists, and between fingers).
- Eyes protection:** Safety glasses while cutting the material.

LIMITS of EXPOSITION for CONTINUOUS FILAMENTS of GLASS FIBRES

- FRANCE:** *Circular DRT n° 95/4 of January, 12, 1995*
The maximum concentration of breathable glass fibres (diameter < 3 µ) in work atmosphere is fixed at **1 fiber / cm³**.
That threshold is always respected in the case of Hexcel continuous reinforcement glass fibres (filaments diameter > 3 µ).
- USA:** **OSHA PEL** (limit of authorized exposition: 8h TWA): **5 mg/m³** (breathable dusts) – **15 mg/m³** (total dusts).
ACGIH TLV (8h TWA): **10 mg/m³** (breathable dusts)

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VII - PHYSICAL / CHEMICAL PROPERTIES

Form: Fabric

Color: Various

Odor: Odorless

Melting point / range: 1250°C (glass) – Softening: 840°C (glass)

Decomposition point: (fabric) > 200°C

Flammability: not flammable

Autoflammability: none

Solubility: treatment partly soluble in some organic solvents (ex : dichloromethane, THF...) and partly water soluble

Explosive properties: none

Combustive properties: none

Specific weight (glass): 2,5 – 2,6 g/cm³

VIII - STABILITY / REACTIVITY

Stability : stable

Conditions to avoid : none

Materials to avoid : none

Hazardous decomposition products: CO, CO₂, other non identified products

IX - TOXICOLOGICAL INFORMATION

Product no toxically, not authorized for food use.

If contact with eyes : may cause eye irritation

If contact with skin : prolonged may cause skin irritation or allergic reactions

If ingestion : may cause mechanical irritation of digestive apparatus

If inhalation : may cause mechanical irritation of respiratory tract

Glass fibers

A conclusion of the seminar on the « Toxicity of Man Made Fibres » (February 3-4, 1994, Paris, France) was that fibres which cannot enter into the respiratory system will not be factors of induction of respiratory diseases.

Because of the narrow, bending passages of the human nose and pharynx, fibres having diameters superior to 3 microns will be either too long to enter the nose, or will be filtered out by nasal hairs or will be stopped by nose or pharynx surfaces.

Products manufactured with fibres having diameters superior to 3 microns are not physically capable of traveling beyond the nose and pharynx.

In October 1986, the World Health Organization held an International Symposium on Man Made Mineral Fibres. It was concluded that **no harmful effect, including lung cancer and non-malignant respiratory disease, could be blamed on the exposure to continuous glass fiber filaments dust.**

Several epidemiological studies, conducted on workers employed for up to 40 years in the manufacture of glass fibres, have shown no evidence of increases in either malignant or non-malignant respiratory disease attributable to exposure to glass fiber.

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Glass fiber inhalation studies carried out on animals have not shown any carcinogenic response. Studies using artificial implantation or injection of glass fibres have resulted in cancer in laboratory animals. However, as no natural mechanism looks like such artificial exposures, those studies are not thought to be relevant to human exposure.

Continuous glass fiber filament has been classified by the International Agency for Research on Cancer in Group 3 : « The agent (or exposition circumstances) can't be classified about their carcinogenicity ». This means that proofs are not sufficient to associate that fiber with cancer.

X - ECOLOGICAL INFORMATION

Not harmful for animals, plants, or aquatic animal life
Not biodegradable

XI - DISPOSAL CONSIDERATIONS

Put in the earth in a secure land fill in accordance with state regulations: inert industrial wastes or ordinary industrial wastes
In any case respect local disposal regulations concerning inert type wastes (dump corresponding to product classified as "non dangerous").

XII - REGULATORY INFORMATION

NO INTERNATIONAL REGULATIONS CURRENTLY APPLICABLE (CEE)
NOT CONSIDERED AS A DANGEROUS SUBSTANCE ACCORDING TO THE 67/548/CEE DIRECTIVE

All components of this product are either listed on the U.S. Toxic Substance Control Act (TSCA) Inventory of chemicals or are otherwise compliant with TSCA regulations.

XIII- OTHER INFORMATION

This document completes the technical data sheet but does not replace it. The here above data are based on our knowledge relative to the concerned product at the publishing date. They are given in good faith. Users' attention is drawn to the possible risks when a product is misused.