

## **Safe Use Instructions Sheet**

Printing date: 28/7/2018

Version number 1

Revision: 28/7/2018

### **SECTION 1: Identification of the article and of the company/undertaking**

#### **1.1 Product identifier**

Trade name webertherm mesh

#### **1.2 Relevant identified uses of the article and uses advised against**

ETICS system

**Application of the article** In building construction applications

#### **1.3 Details of the supplier of the safe use instructions sheet**

##### **Manufacturer/Supplier:**

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SODAMCO Industrial Co. for Construction Chemicals W.L.L (Office Jeddah)

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SODAMCO Industrial Co. for Construction Chemicals W.L.L (Riyadh Office)

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T +966 11 473 8751  
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### 1.4 Emergency telephone number:

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Jeddah:+966126683295  
Riyadh:+966114738751  
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Hours of operation: From 8 am to 6 pm  
Monday to Friday in Lebanon  
Sunday to Thursday in other countries

## **SECTION 2: Hazards identification**

### 2.1 Classification of the article

#### Special hazard information for human beings and the environment:

The products are composed of glass filaments above 3µm in diameter, consequently not reach the lower respiratory tract and therefore have no possibility of causing serious pulmonary disease. The products are **not classified as hazardous** according to European Directive 67/548/EEC and its latest amendments. Mechanical irritation (itching), eventually allergy (extremely rare), may be produced by dust generated on product processing. Under some conditions, the products may release Formaldehyde and other hazardous substances).

## **SECTION 3: Composition/information on ingredients**

**Continuous filament glass products are articles in the meaning of REACH (1907/2006/EC).**

These articles are mixtures of **E GLASS** or **C GLASS** in the form of continuous filaments and a **SIZE** with, in addition, a **BINDER** or **COATING**.

The CAS number of glass filaments is 65997-17-3 (corresponding to the oxides used for production).

**E GLASS** is a glass with a very low alkaline content.

**C GLASS** is a glass with very high alkaline content and low aluminium oxide content.

**SIZE** is a mixture of chemicals applied to the glass filaments in a maximum quantity of 3% - more generally between 1% and 1.5% by weight.

Most of this mixture is made up of basically non reactive high molecular weight polymers, often natural ingredients (starches) or polymers with reactive sites or containing reactive monomers.

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A second type of ingredient (sometimes present in almost all sizes) is a member of the organo-silane family requiring "hazardous product" labelling. The manufacturer considers this risk as negligible as, although listed as dangerous products, the concentration is extremely low and they are polymerised during the production of glass filaments.

Other products can be used in sizes often acting as lubricants.

**BINDERS in case of glass veils** are water based phenol-formaldehyde (PF), melamine-formaldehyde (MF), urea-formaldehyde (UF), or polyvinyl, acrylic resins, other latex emulsions, starch, other bio sourced raw materials or blends of these binders. Their content in the glass veil is between 5 and 30 % by weight. Binders can contain black or yellow dyes.

**No BINDER nor impregnation in case of Glass Loose Fibers** and some TECO Fabrics (Greige fabrics, Caramelized fabrics)

**COATING in case of glass veil** are mineral based.

Calcium carbonate (CAS 1317-65-03) content < 80% by weight

Metal hydroxides (CAS1318-23-6 ; CAS 1309-42-8) content < 20% by weight.

**COATING in case of grinding wheels** are generally phenolic resins, and some polyurethane resins. Their content in the final product keeps the range 26 – 33 % by weight, in cases of certain products the content can reach 50 %.

**COATING in case of wall covering, mesh and RECO/E-fabrics, laid scrim** are polyvinyl alcohol (laid scrim), ethyl vinyl acetate polymer (wall covering, RECO/E-fabrics) and water dispersion of styrene-butadiene (mesh fabrics) coatings.

**COATING in case of insect screens** is PVC based coating with PVC plasticizer.

Polyvinyl Chloride (CAS 9002-86-2) content < 40 % by weight

Di-isononylphthalate (CAS 28553-12-0) content < 20 % by weight

**Hazardous substances potentially released from the products:**

Product	Binder	Coating
Glass veils Glass veils (AF; AG; AP; AT; AW; PA; S)	Formaldehyde content < 0,1 % by weight* Formaldehyde under detection level*	No hazardous substances
Grinding wheels	No hazardous substances	Phenol content < 1 % by weight Formaldehyde <0,1% Methanol <0,1% Methenamine <0,1 %

Our products do not contain any of SVHC (substances of very high concern).

### **SECTION 4: First aid measures**

#### **Description of first aid measures**

##### **After excessive inhalation**

Supply fresh air; consult a doctor in case of complaints once exposed to dusty environment.

##### **After eye contact**

Once a dust particles enters into eyes, rinse opened eye for several minutes under running water and consult a doctor if necessary. Do not rub

##### **After skin contact:**

In case of exposure to dust and consequent irritation immediately wash with water and soap and rinse thoroughly. Do not rub or scratch affected areas. If skin irritation continues, consult a doctor.

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### **SECTION 5: Firefighting measures**

#### **5.1 Extinguishing media**

##### **Suitable extinguishing agents**

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

#### **5.2 Special hazards arising from the article**

N/A

#### **5.3 Advice for firefighters**

**Protective equipment:** Do not inhale combustion gases.

Wear fully protective suit including the SCBA (Self-Contained Breathing Apparatus)

#### **5.4 Further information**

In case of fire, glass filaments are not flammable, are incombustible and don't support combustion.

Only the packaging (plastic film, paper, cardboard, wood) and the small amounts of size or binder/PVC coating are combustible and could release some hazardous gases.

### **SECTION 6: Accidental release measures**

#### **6.1 Personal precautions, protective equipment and emergency procedures**

Just in case of dusty environment, avoid contact with the skin and the eyes. See chapter 8 for other instructions.

#### **6.2 Environmental precautions:**

No special measures required – all sorts of glass wastes are considered as **Inert Industrial Wastes**, or **Common Industrial Wastes** except for glass filament impregnated weaves for the abrasive industry (Grinding Wheels) which may be classified as Hazardous waste depending on local legislative standards.

#### **6.3 Methods and material for containment and cleaning up:**

Vacuum clean, sweep or shovel into containers normally used for glass filament waste (selective collection).

### **SECTION 7: Handling and storage**

#### **7.1 Precautions for safe handling**

It is preferable to avoid prolonged contact with the skin: wear the protective equipment as indicated in the chapter 8.

Prevent and minimize the dust formation during the processing of products.

Provide local exhaust ventilation (LEV) if dust is formed on the processing machinery.

#### **7.2 Conditions for safe storage, including any incompatibilities**

##### **Technical measures:**

Respect the stacking procedure recommended for each type of product.

##### **Storage conditions:**

Store away from excessive humidity to prevent damage to the product and to the packing materials which could lead to storage safety problems. Store in a well ventilated area and keep away from direct sunbeam.

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### **SECTION 8: Exposure controls/personal protection**

#### **8.1 Control parameters**

Components with limit values related to the work station which require monitoring: N/A

#### **8.2 Exposure controls**

##### **Ingredients with limit values that require monitoring at the workplace:**

Continuous glass filaments are not respirable however certain mechanical processes might generate airborne dust or filaments (see chapter 11). Air monitoring could then be conducted to check the compliance to exposure limits applicable to generic dust or dust with no specific toxicity.

In case of grinding wheels and glass veils a low amount of the chemical substances stated in the chapter "3 – Composition" may be released from the products depending on handling and process applications. Especially if the product is heated-up or stored in closed and poorly ventilated areas an exposure monitoring should be conducted.

##### **Engineering controls:**

Provide local exhaust and/or general ventilation system to maintain low exposure levels.

##### **Respiratory protection**

###### *Respiratory protection:*

During operations releasing high quantities of dust, wear minimum FP1 or preferably FP2 EEC approved dust masks. In case of non-compliance to exposure limits of chemical substances as mentioned in the chapter "3-Composition" relevant cartridges must be used.

###### *Protection of hands and other exposed parts of the body:*

Gloves for the hands, long-sleeved garments and long leggings to prevent irritation. People with delicate skin should apply barrier cream to exposed skin areas.

*Eye protection:* safety goggles (or masks) or safety glasses.

### **SECTION 9: Physical and chemical properties**

#### **9.1 Information on basic physical and chemical properties**

##### **General information**

- (a) Form: solid, rolls or strips of coated fabrics, veils, wheels cut of fibreglass grid
- (b) Colour: White or yellowish white, yellow, black, grey
- (c) Odour: By opening the packages some smell of phenol or methanol may arise (grinding wheels)
- (d) pH: Not relevant.solid
- (e) Melting point: not applicable
- (f)Decomposition Temperature: Only size and binder/coating products start to decompose at 200°C
- (g)Flash point: None
- (h)Explosive properties: None
- (i)Flammability: Not relevant. Non combustible

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(j) Density: 2.6 g/cu.cm.

(k) Solubility: Very low solubility in water. Sizes and impregnating resins can be partially (and even totally) dissolved in most organic solvents.

### **SECTION 10: Stability and reactivity**

**10.1 Reactivity xx.**

**10.2 Chemical stability**

Stable in normal use and storage conditions, and in normally foreseeable usage conditions. As already identified, some substances may be released during hot processes or storage.

**10.3 Possibility of hazardous reactions**

No chemical hazardous reaction is foreseeable.

**10.4 Hazardous decomposition products:**

See Chapter 5 for hazardous decomposition products during fire.

### **SECTION 11: Toxicological information**

**11.1 11.1 Glass filaments**

ACUTE TOXICITY: not relevant

LOCALISED EFFECTS: possible temporary irritations

This irritation is of a purely mechanical and temporary nature. It disappears when exposure is ended. It can affect the skin, the eyes and the upper respiratory tracts. In Europe, mechanical irritation is not considered to be a health hazard within the terms of European directives 67/548/EEC for hazardous products. This is confirmed by the fact that EC Directive 97/69/EC for mineral fibres does not stipulate the need to use an Xi (irritant) label nor a classification for continuous glass filaments.

SENSITISATION: some **allergies** to continuous glass filaments have been declared.

LONG TERM TOXICITY:

**Continuous glass filaments are not respirable** (i.e. do not penetrate the lung alveoli). This is because filaments are above 3µm in diameter.

**Regulatory situation:**

Following the IARC conclusion, **glass filaments are not classified as to their carcinogenicity**. They belong to the **Group 3 of IARC**. This classification has been confirmed by the IARC Working Group during his meeting of October 2001 and in the latest issue of the IARC monographs on the evaluation of carcinogenic risks to humans, volume 81 on Man-made vitreous fibres, published in 2002.

The International Labour Office (ILO) and the CSIP (Chemical Safety International Program) came to the same conclusions in a congress held in 1987.

European Commission Directive 97/69/EC dated 5/12/97, the 23<sup>rd</sup> amendment to Directive 67/548/EEC which concerns classification, packing and labelling of hazardous substances did not think it necessary to include glass filaments as having carcinogenic risks.

OSHA (Occupational Safety and Health Administration) and NTP (U.S. National Toxicology Program), official American organisations, have not listed glass filaments products as hazardous substances and the ACGIH (American Conference of Governmental Industrial Hygienists) has classified them as A4 (not classified as carcinogenic for Man). They are not concerned by the Canadian Controlled Products regulations (CPR).

**MUTAGENIC RISKS, TERATOGENIC RISKS, RISKS FOR REPRODUCTION:** no known risks.

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### **11 .2 - Other components of binders and coatings**

Certain substances being a part of components for applicated binders and coatings as specified in the chapter "3 – Composition" have specific toxicity. See relevant documents and standards for further information on their regulatory classification and scientific evaluation.

### **SECTION 12: Ecological information**

The products are not expected to cause harm to animals, plants nor fish.

### **SECTION 13: Disposal considerations**

Depending on local regulations, glass filament wastes can either be considered as **inert waste**, **special non dangerous waste** or as **common industrial waste** except for glass filament impregnated weaves for the abrasive industry (Grinding Wheels) which may be classified as Hazardous waste depending on local legislative standards.

As such they can be buried in landfills approved for these categories.

Smaller quantities can be disposed of with household waste.

### **SECTION 14: Transport information**

• Transportation/further information:

Glass filament products are not considered as hazardous goods by transport regulations (IMDG, ADR/RID, ICAO/ IATA, DOT, TDG, MEX).

### **SECTION 15: Regulatory information**

Continuous glass filaments products do not require hazardous product labelling (see Chapter 11).

Continuous glass filament products are articles and for this reason they have not to be listed in most of the countries, for instance in the list EINECS in Europe, ELINCS, TSCA for the USA, DSL and NDSL for Canada, CSCL for Japan, AICS for Australia, PICCS for Phillipine, KECL for South Korea, etc.

### **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Department issuing SDS:** R&D Department of Weber-Middle East

**Contact:**

Product Safety

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