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Safety data sheet according to Regulation (CE) n. 453/2010.

Last review 0003 of 2<sup>nd</sup> August 2017.

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## 1. Product and Society identification

### 1.1 Product Identifier

Commercial name: **Polites 140**

Reach registration number: exempt.

### 1.2 Relevant identified uses of the substance and uses advised against

Glass-fiber armor to be used as mesh for internal and external plasters.

### 1.3 Details of the supplier of the safety data sheet

Company name: Diasen s.r.l.  
Z.ind.le Berbentina, 5  
60041 Sassoferrato An – Italia  
Tel. +39 0732 9718  
Fax +39 0732 971899  
E-mail: [diasen@diasen.com](mailto:diasen@diasen.com)

### 1.4 Emergency telephone number

Telephone number of urgent calls of the company, and / or of an authorized advisory centre:  
Diasen s.r.l. Tel. 0732/9718

Available 24 hours? No.

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## 2. Hazard identification

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### 2.1 Classification of the substance or mixture

The products are manufactured with glass filaments of 3 µm of maximum diameter, so they are not breathable and not classified as hazardous according to European Standard 67/548/EEC and its amendments. Powder can be generated when using the product, which can cause mechanical irritation (itching) and, in extremely rare cases, allergies.

### 2.2 Label elements

Labeling according to Regulation (EC) No. 1272/2008 [CLP]

*Hazard pictogram:* none.

*Warning:* none.

*Hazard statement:* none.

*Precautionary statement:* none.

### 2.3 Other hazards

Data not available.

Classification and labeling have been made on the basis of safety data sheets of similar products.

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### 3. Composition/information on the ingredients

#### 3.1 Substance

Not applicable.

#### 3.2 Mixture

Not applicable.

Continuous or cut glass fibers are considered articles according to REACH standard (1907/2006 / EN). These articles are made of a combination of glass class E (glass with very low alkali content) or glass class C (glass with very low alkali content and low alumina) in the form of continuous filaments with a binding or coating.

The glass fiber CAS code is 65997-17-3 (corresponds to the oxides used for production).

Glass E is a glass with very low content of alkaline substances.

Glass C is a glass with a very high content of alkaline substances and low content of aluminum oxide.

Stiffening agent is a mixture of chemicals applied to glass fibers in an amount of 1 - 1.5% by weight.

Most of these blends are made mainly of non-reactive high molecular weight polymers, often natural ingredients (amides), reactive polymers or reactive monomers.

A second type of ingredient (present in almost all the stiffening agents) is part of the organosilane family and requires labeling as a "dangerous product". The producer considers the risk negligible since, although these products are labeled as hazardous products, their concentration is extremely low and polymerizes during the production of glass fibers.

Other products often used as stiffening agents act as lubricants.

Impurity: it does not contain any relevant impurities for the purpose of classification and labeling.

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### 4. First Aid Measures

#### 4.1 Description of First Aid Measures

**General information:** no specific measures are required.

#### In case of dust inhalation

Ventilate the area. Immediately remove the patient from the contaminated premises and bring him in a well ventilated area. If you feel unwell seek medical advice, showing this safety data sheet.

#### In case of skin exposure to dust with irritation

Immediately and thoroughly wash the affected area with hot water and soap and rinse well. Do not scratch or rub the affected parts. If skin irritation persists seek medical advice, showing this safety data sheet.

#### If particles of dust are penetrated into the eyes

Do not rub. Rinse immediately and thoroughly with running water, keeping eyelids raised, for at least 2 minutes. Seek medical advice, showing this safety data sheet.

#### 4.2 Main symptoms and effects, both acute and delayed

Symptoms: no significant symptoms are expected.

Dangers: no precautionary hazard.

#### 4.3 Indication of any immediate medical attention and special treatment

Symptomatic treatment. In case of accident or if you feel unwell, seek medical advice immediately. No action shall be taken involving any personal risk or without proper training.

## 5. Fire-Fighting Measures

Glass fibers are not combustible; they are non-flammable material, which does not favor combustion.

Only packaging materials are flammable (plastic films, paper, cardboard, wood), as well as small amounts of coatings or binders / PVCs whose combustion could emit a small amount of hazardous gases.

### 5.1 Extinguishing tools

Suitable extinguishing tools: water spray, extinguishing powder or CO<sub>2</sub>. Fight larger fires with water spray or alcohol resistant foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Fire extinguisher prohibited: none.

### 5.2 Special hazards arising from the substance

No special hazards are known.

**Dangerous combustion products:** combustion of small amounts of coatings or binders / PVCs whose could emit a small amount of hazardous gases.

### 5.3 Advice for fire-fighters

Use breathing apparatus and extinguishing measures that are appropriate to local circumstances and the surrounding environment. Wear aqualung, complete eye protection, full flash barrier suit, gloves and proof shoes.

The fire debris and contaminated extinguishing water must be disposed of according to local regulations, national and Community.

## 6. Measures in case of accidental release

### 6.1.1 for non-emergency personnel

Remove people who do not wear any protective device.

Avoid contact with skin and eyes - wear suitable protective equipment (see point 8).

### 6.1.2 for emergency responders

Remove people who do not wear any protective device.

Avoid contact with skin and eyes - wear suitable protective equipment (see point 8).

Eliminate all unguarded flames and possible sources of ignition. Not smoking.

### 6.2 Environmental precautions

No special precautions are required. Glass fibers are normally considered as non-hazardous special waste.

### 6.3 Methods and materials for containment and cleaning

Clean with vacuum cleaner, sweep, dispose the product in suitable receptacles and dispose it in accordance with local, national, and Community regulations.

### 6.4 Reference to other sections

Information regarding exposure controls / personal protection and disposal considerations can be found in sections 8 and 13.

## 7. Handling and storage

### 7.1 Precautions for safe handling

#### 7.1.1 Protection measure

Avoid contact with skin. Wear personal protective equipment for the hands and skin (see item 8). Do not wear contact lenses when working with this product.

Prevent and limit the formation of dust during use of the product.

#### 7.1.2 Advice on general occupational hygiene

Avoid inhalation of powder or contact with skin and eyes. They also require the general occupational hygiene measures to ensure safe handling of the substance. These measures include: good personal practices, regular cleaning of workplaces, do not drink, eat or smoke in the workplace, wash your hands after any manipulation, take a shower and change clothes at the end of each work shift. Do not wear contaminated clothing at home. Separate work clothes from others. Wash them separately.

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

The product should be stored in a dry place, away from sunlight, water and frost, at temperatures between + 5 ° C and + 35 ° C in original packaging intact. Keep away from open flames, sparks and heat sources. Keep out of reach of children.

If the product is stored on site, it must be adequately protected from the sun, frost and water and maintained at temperatures between + 5 ° C and + 35 ° C.

## 8. Exposure controls/personal protection

### 8.1 Control parameters

#### Exposure Limit Values:

Although continuous or cut glass fibers do not penetrate in the lungs, some mechanical processes can create powders or fibers that can be transmitted to the air (see Chapter 11). Environmental monitoring may be required to verify the exposure limits applicable to general powders or dusts without specific toxicity (inert).

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### 8.2 Exposure controls

Wear personal protective equipment (goggles and protective clothing, safety shoes).

#### 8.2.1 Appropriate engineering controls

None.

#### 8.2.2 Individual protection measures, such as personal protective equipment

##### 8.2.2.1 Eye / face protection

Do not use contact lenses. Use tight fitting goggles with side fins or mask type complying with EN 166 (frame goggles). Use a protection for the eyes compatible with the system used for the protection of the respiratory tract.

##### 8.2.2.2 Skin protection

Wear protective gloves comply with EN 374 parts 1 and 2 standard. It should be in mind that, due to various factors (for example the temperature); the duration of a protective glove can also be significantly lower than the permeation time detected by the test. Change protective gloves used in the presence of signs of wear or contamination. Wear standard protective clothing covering the whole surface of the skin, long pants, long sleeved overalls, adhering to the extremities and safety footwear.

For workers who suffer from dermatitis or sensitive skin, we recommend appropriate protection (eg. Barrier cream).

##### 8.2.2.3 Respiratory protection

During activities where high amounts of dust are released, use certified respiratory protection equipment with CE marking, minimum type FP1 or better FP2.

Give adequate ventilation to the premises where the product is used or stored.

#### 8.2.2.4 Thermal hazards

Data not available.

#### 8.2.3 Environmental exposure controls

No special precautions are required. Glass fibers are normally considered as non-hazardous special waste.

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### 9. Physical and chemical properties

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

Appearance:	solid.
Shape:	glass fiber net coils.
Color:	orange.
Odor:	none.
Weight:	140 g/m <sup>2</sup> ± 5%.
Softening point:	about 850 °C (glass type E) / 690 °C (glass type C).
Melting point:	N.A.
Decomposition temperature:	only a few of the stratification products and bonding agents / coating products begin to decompose at 200°C.
Flash point:	none.
Explosive properties:	none.
Solubility in water:	layers and impregnating resins can be dissolved (even completely) in most organic solvents.
Auto-ignition:	not self-igniting.
Thermal decomposition:	no decomposition if used correctly.
Oxidizing properties:	N.A.

Note: the values presented above for physic-chemical properties are typical values for the product and should not be construed as a specification.

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#### 9.2 Other information

No data available.

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### 10. Stability and reactivity

#### 10.1 Reactivity

No hazardous reactions when handled and store with the prescriptions / directions.

#### 10.2 Chemical stability

The product is stable when handled and store with the prescriptions / directions.

#### 10.3 Possibility of hazardous reactions

No hazardous reactions when handled and store with the prescriptions / directions.

#### 10.4 Conditions to avoid

The product should be stored in a dry place, away from sunlight, water and frost, at temperatures between +5°C and + 35°C in original packaging intact and sealed. Keep away from open flames, sparks and heat sources. Keep out of reach of children.

If the product is stored on site, it must be adequately protected from the sun, frost and water and maintained at temperatures between + 5 ° C and + 35 ° C.

#### 10.5 Incompatible materials

None.

## 10.6 Hazardous decomposition products

Refer to Chapter 5.

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## 11. Toxicological information

### 11.1 Information on toxicological effects

**Toxicological information concerning the mixture:** not relevant.

**Toxicological information concerning the principal substances present in the mixture:** not relevant.

Continuous or cut glass fibers are considered articles according to REACH regulation (1907/2006/EN).

#### Acute toxicity

Negligible.

#### Local effects

Possibility of temporary irritation.

Such irritation has the only mechanical and temporary character. Irritation disappears as soon as the show ends. May affect skin, eyes and upper respiratory tract. In Europe, mechanical irritation is not considered a health hazard according to European Directive 67/548/EEC on Hazardous Substances. This is confirmed by the fact that Directive 97/69/EC on fiber and mineral wool does not define either the need to use Xi (irritant) identification or the classification of continuous filaments.

#### Sensitivity

Certain allergies have been reported to continuous glass fibers.

#### Long-term toxicity

Continuous glass fibers does not penetrate into the lungs (do not penetrate in the lung alveoli) because the fibers diameter do not exceeds 3 µm.

#### Law requirements:

Like the IARC's conclusions, glass fibers are not classified as carcinogens. They are included in Group 3 IARC. This classification was confirmed by the IARC Working Group during the October 2001 Conference and the most recent IARC analysis published in 2002 on the assessment of carcinogenic hazards (Article 81 on artificial glass substances). The International Labor Organization (ILO) and the CSIP (International Chemical Safety Program) have also come to the same conclusion during the 1987 Congress.

The European Commission Directive 97/69/EC of 5 December 1997, which is the twenty-third amendment of Directive 67/548/EEC on the Classification, Packaging and Designation of Hazardous Substances, does not consider necessary to include glass fibers in the list of substances with carcinogenic risks.

OSHA (National Agency of Occupational Health and Safety) and the US National Organization for Organic Agents (NTP) do not consider hazardous glass filament and ACGIH (American Conference on Industrial Hygienists) classified these products as A4 (non-classified substances such as carcinogens for humans). In addition, these products are not affected by Canadian Control Products Act (CPR).

#### Mutagenic, teratogenic and reproductive hazards

No known risk.

The product has not been tested. The data contained in this paragraph is based on the information contained in the security data sheets of similar products.

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## 12. Ecological information

### 12.1 Toxicity

**Toxicological information of the mixture:** not relevant.

**Toxicological information of main substances contained on the mixture:** not relevant.

#### Acute toxicity

No adverse effects of products on animals, plants or fish are expected.

#### General effect

None effect.

### 12.2 Persistence and degradability

No adverse effects of products on animals, plants or fish are expected.

### 12.3 Bio accumulative potential

Not predictable a potential for bioaccumulation.

### 12.4 Mobility in soil (and other funds if available)

Transport evaluation between environmental departments:

No data available.

### 12.5 Results of PBT and vPvB assessment

In accordance with 453/2010/EC regulation, the product does not contain any substance that meets PBT (persistent, bioaccumulative / toxic) criteria or vPvB (very persistent / very bioaccumulative) criteria.

### 12.6 Other adverse effects

Not available data.

### 12.7 Additional Indications

Halogenated organic compounds absorbable (AOX):  
no available data.

The product was not tested. The data reported in this paragraph are based on the information contained in safety data sheets of similar products.

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## 13. Disposal considerations

### 13.1 Waste treatment methods

For disposal, remove the product in a suitable incineration plant, in accordance with regulations at the local, national and EU. Glass fiber residues can be considered as non-hazardous special waste.

Disposal clean plastic packaging (EWC): 15 01 06

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## 14. Transport information

Product classified as non dangerous for transport (land transport ADR/RID, railways transport RID, sea transport AND/IMDG / GGVSea, air transport IATA/ICAO).

### 14.1 ONU Number

Not regulated.

### 14.2 ONU proper shipping name

Not regulated.

#### 14.3 Transport hazard classes

Product classified as non dangerous for transport.

#### 14.4 Packaging group

Not regulated.

#### 14.5 Environmental hazards

Product classified as non dangerous for transport.

#### 14.6 Special precautions for user

Product classified as non dangerous for transport.

#### 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC code

Product classified as non dangerous for transport.

*Transportation classifications may vary according to the capacity and the type of container and according to the different national legislations.*

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### 14. Regulatory information

#### 15.1 Regulations / legislation on safety, health and environmental protection specific to the product

Permissions: not required.

Restrictions for use: none.

Other Community Regulations: the product does not contain any substances included in SEVESO directive, substances that reduce the ozone layer and persistent organic pollutants (POP).

National regulations: D.P.R. 1124/65 (testo unico delle disposizioni per l'assicurazione obbligatoria contro gli infortuni sul lavoro e le malattie professionali);

D. Lgs n. 475/82 e s.m.i. (Attuazione della Direttiva 89/686/CEE del Consiglio del 21/12/1989 in materia di ravvicinamento delle legislazioni degli Stati Membri relativi ai dispositivi di protezione individuale);

Legge n. 52 del 03/02/1997;

D.M. 28/04/1997;

D.M. 04/04/1997;

D.M. 07/09/2002 (Attuazione delle direttiva 2001/58/CE);

D. Lgs. 65 del 14/03/2003 (Attuazione delle Direttive 1999/45/CE e 2001/60/CE);

D. Lgs n. 152/2006 e s.m.i. (norme in materia ambientale);

D. Lgs. 81/2008 e s.m.i. (attuazione dell'art. 1 della Legge 03/08/2007 in materia di tutela della salute e della sicurezza nei luoghi di lavoro).

EC Regulations: Directive 67/548/EEC and subsequent modifications and additions (Classification, labeling and packaging of dangerous substances);

Directive 2006/8 /EC (D.M. 03/04/2007);

EC/1907/2006 regulation and subsequent modifications and additions (Registration, Evaluation, Authorization and Restriction of REACH Chemicals);

EC/1272/2008 regulation (Classification, labeling and packaging of substances and mixtures).

#### 15.2 Chemical safety assessment (CSA)

Not required. Exempt from REACH registration.



## 16. Other information

### Full text of H phrases – Hazard Statements

None.

### Full text of P phrases – Precautionary Statements

None.

### Abbreviations and acronyms

ADR:	Accord européen relative au transport international des marchandises dangereuses par route.
ASTM:	American Society for Testing and Materials.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
EC <sub>50</sub> :	Effective Concentration 50 (maximum concentration that causes dangerous effects for 50% of individuals).
LC <sub>50</sub> :	Lethal Concentration 50 (lethal concentration for 50% of individuals).
IC <sub>50</sub> :	Inhibitor Concentration 50 (inhibitory concentration for 50% of individuals).
NOEL:	No Observed Effect Level.
NOEC:	No Observed Effect Concentration.
LOEC:	Lowest Observed Effect Concentration.
DNEL:	Derived No Effect Level.
DMEL:	Derived Minimum Effect Level.
CLP:	Classification, Labeling and Packaging.
CSR:	Chemical Safety Report.
LD (0/50/100):	Lethal Dose 50 (lethal dose for 50% of individuals).
IATA:	International Air Transport Association.
ICAO:	International Civil Aviation Organization.
IMDG code:	International Maritime Dangerous Goods code.
PBT:	Persistent, bioaccumulative and toxic.
RID:	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the international carriage of dangerous goods by Rail).
STEL:	Short term exposure limit.
TLV:	Threshold limits value.
TWA:	Time Weighted Average.
vPvB:	very persistent very bioaccumulative.
VwVwS.:	Text of Administrative Regulation on the Classification of Substances hazardous to waters into Water Hazard Classes.
PNEC:	Predicted No Effect Concentration.
PNOS:	Particulates not Otherwise Specified.
BOD:	Biochemical Oxygen Demand.
COD:	Chemical Oxygen Demand.
BCF:	Bio Concentration Factor.
TRGS :	Technische Regeln für Gefahrstoffe -Technical Rules for Hazardous Substances, defined by The Federal Institute for Occupational Safety and Health, Germany.
LCLo:	Lethal Concentration Low.
ThOD:	Theoretical Oxygen Demand.

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### Bibliography

The Merck Index Ed. 10;

Handling Chemical Safety;

Anonimo, 2006: Tolerable upper intake levels for vitamins and minerals Scientific Committee on Food,

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European Food Safety Authority, ISBN: 92-9199-014-0 [documento SCF].

Anonimo, 2007: HERAG fact sheet - assessment of occupational dermal exposure and dermal absorption for metals and inorganic metal compounds; EBRC Consulting GmbH, Hannover, Germania; agosto 2007.

Anonimo, 2008: Recommendation from the Scientific Committee on Occupational Exposure Limits for calcium oxide (CaO) and calcium dihydroxide (Ca(OH)<sub>2</sub>), Direzione Generale per l'Occupazione, gli Affari Sociali e le Pari Opportunità della Commissione Europea, SCOEL/SUM/137 febbraio 2008.

MEASE: Metals estimation and assessment substance exposure, EBRC Consulting GMBH for Eurometaux, <http://www.ebrc.de/ebrc/ebrc-mease.php>

Bureau Européen des substances Chimiques (ECB).

CIRC (Centre International de Recherche sur le Cancer).

HSDB (Hazardous Substances Data Bank) (National Library of Medicine).

INRS (Institut National de Recherche et de Sécurité).

IUCLID (International Uniform Chemical Information data Base).

RTECS (Registry of Toxic effects of Chemical Substances).

NIOSH – Registry of toxic effects of chemical substances (1983).

Istituto Superiore di Sanità – Schede tossicologiche di solventi organici utilizzati in cicli tecnologici industriali (1985).

Istituto Superiore di Sanità – Inventario nazionale sostanze chimiche.

ECDIN – Environmental chemicals data and information network – Joint research centre, Commission of the European Communities.

ACGIH – Threshold limit values (2000).

SAX'S – Dangerous properties of industrial materials – tenth edition.

#### Release:

This safety data sheet (SDS) is based on the legal provisions of the REACH Regulation (EC / 1907/2006), as amended and supplemented. The information contained herein is based on information in the MSDS of the raw materials that make up the product and our knowledge of the date indicated. They refer solely to the product indicated and constitute no guarantee of particular quality.

No representation or warranty is given as to the accuracy, reliability or completeness of the data contained in this MSDS. The company assumes no liability for damages to persons or things that may result from use of the product other than that for which it was intended. The SDS does not replace but complements the lyrics or the rules that govern the use activities. The user has full responsibility for the precautions that are necessary for the use that will make the preparation. This MSDS cancels and replaces any previous edition

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Indications of changes to the previous version of the SDS: review of the entire document.

This SDS is available in electronic format at: [www.diasen.com](http://www.diasen.com).