



INDUSTRIES 3R

MATERIAL SAFETY DATA SHEET

IDENTITY

Part Number: **TXP 1100 SS**
 Identity: Fiberglass cloth with stainless steel reinforcement
 Description: Fabrics texturized reinforced with stainless steel
 Other Generic Names: None

SUPPLIER

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INGREDIENTS INFORMATIONS

The base material of this product is E-Glass threads of endless filaments and a size. CAS-no.: 65997-17-3. According to regulations 67/548/EEC and the American standard TSCA (Toxic Substances Control Act), textile E-Glass is not a substance but a product made of E-Glass in form of continuous glass fibers and a size.

The used V4A-wire is a stainless steel containing a nickel concentration of more than 1%, which is firmly bonded in the material. It does not represent any hazards for persons or the environment.

HT A is an organic non-slip finish to receive a higher application temperature.

DANGEROUS INGREDIENTS:

CAS-no:	component:	hazard code	% by weight (approx.).
65997-17-3	glass fibre	R36/37/38	91.8
Not indicated	size	not applied	1.4
7440-02-2	nickel (part of V4A)	R40/43, R48/23	2.4
7440-47-3	chromium(part of V4A)	not applied	1.8
7439-96-5	molybdenum(part of V4A)	R20/21/22	0.7

Materials with prescribed EC limited values: none.

PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid
 Color: fabric: grey, other colors possible / wire: grey-metallic
 Odor Type: None
 Explosion hazard: None.
 Lower explosion limit: N/D
 Upper exposure limit: N/D
 Steam pressure: None.
 Density: at 20C:2,5-2,6g/cm³
 Flow time: N/D
 Solubility: Sizes could be solubilised (up 100%) in most organic solvents.
 pH Value: None.
 Boiling point: ---/softening point 840C
 Flame point: N/D
 Inflammation point: N/D

FIRE –FIGHTING MEASURES

The glass fibers are not flammable – keep coating and packaging away from open flame.

Applicable extinguishing device: All common types.

Inapplicable extinguishing device: None.

Special hazard caused by the material, formulation, combustion products or resulting gas: None.

Special protective equipment during the fire fighting: None.

Additional information: None.

STABILITY AND REACTIVITY

Hazardous Reactions:

Glass filaments do not cause any dangerous reactions.

Hazardous Decomposition Products:

Glass: -

Size: Beside water vapour possible release of small quantities CO and Nox at continuous combustion.

Thermal Decomposition:

Size > 150°C

Inorganic ingredients: > 220°C

POTENTIAL HEALTH EFFECTS

Not classified as dangerous. The filaments used are bigger than 3µ m and “irrespirable”. It is proven that they do not cause lung cancer.

Fibre glass filament is a mechanical irritant. Breathing dust and fibres may cause short term irritation of the mouth, nose and throat. Skin contact may cause short term mechanical irritation.

First Aid Measures:

General information: Please handle over this MSDS to the doctor in charge.

Inhalation: Move from scene of exposure, breath fresh air

Skin Contact: Clean immediately with lukewarm water. Do not rub. Use adipose cream or emulsion.

Eye Contact: Flush well with running water. Do not rub.

Information for doctor in charge: No special measures required.

DISPOSAL PROCEDURES

E-Glass products made of continuous or cut glass fibres, conglutinated filaments with silicone-coated on one side.

Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Waste code according to the list of wastes-regulation (AVV): EKA 040209/200102

Packaging/ polluted packaging: Law for the promotion of the circular flow economy and assurance of the ecological waste disposal. (Closed Substance Cycle Waste Management ActKrW-AbfG from 27.09.1994, revised by law from 12.09.96. (BHBI S.1354).

ACCIDENTAL RELEASE MEASURES

Personal Precaution: Persons susceptible to irritations of the skin should avoid skin contact. Do not rub.

Environmental Precaution: The products do not release substances or materials which could be harmful to the environment. For this reason they can be handled as general industrial waste.

Methods of cleaning up: No special proposals. Avoid dust

Additional information: No specific recommendations.

HANDLING AND STORAGE

Handling: An increased formation of dust should be avoided. Installation of air exhaust.
Storage: The material should be stored in original packaging without direct sunlight.
Recommended temperatures: 10 - 35°C
Humidity: 40 – 70%

EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure limits:

Non-respirable fibres.
National and local dust limits have to be taken into consideration.
National dust limit (Germany): 6 mg/m³//OSHA: 15 mg/m³.
Avoid unnecessary exposure by using adequate local exhaust ventilation.

Personal Protection:

Respiratory Protection: No special precautions. During dusty operations wear paper masks (P1 or P2)
Eye Protection: No special precautions. Wear protective glasses especially during over head operations.
Hand Protection: Wear gloves if needed.
Clothing: No special precautions. Loose fitting long sleeved shirt that covers skin.
Skin protection: No special precautions, use skin cream or ointment.

TOXICOLOGICAL AND ECOLOGICAL INFORMATION

Toxicological information:

Acute toxicity: none

Local impact: irritations (temporary)

Irritations can affect the skin, eyes and the upper respiratory tracts. Impact will stop after leaving the scene of exposure. According to the 67/548/EEC standard, no classification needed, because glass filaments do not need a special code Xi (irritant) according to 97/69/EC standard.

Carcinogenic: The international agency for Research on Cancer (IARC) in June 1987, categorized fiber glass continuous filament as not classifiable with respect to human carcinogenicity (Group 3). The evidence from human as well as animal studies was evaluated by IARC as insufficient to classify fiber glass continuous filament as a possible, probable or confirmed cancer causing material.

Products that are chopped, crushed or severely mechanically processed during manufacture or use may contain a very small amount of respirable glass fibre-like fragments. NIOSH defines “respirable fibers” as greater than 5 microns in length and less than 3 microns in diameter with an aspect ratio of >:5:1 (length-to-width ratio).

This product is made of fibers with diameters >3 microns.

Each person reacts differently to glass fibres. While a number do not show any reaction during skin contact, others show heavy skin irritation. Sensitisation is possible.

Glass filament sizes and V4A-wire do not contain PCB (polychlorinated biphenyl) or other polyaromatical products.

Environmental information:

Ecological toxicity: Glass filaments and sizes are not listed as ozone layer-destroying products according to Montreal protocol 1987 (class 1 or 2). These catalogues are an essential part of EC regulation Nr. 3093/94 and the amendment of the “Clean Air Act” of the American Environment Agency (EPA).

Mobility:

Persistence and degradability: E-glass is not biodegradable. Sizes are organic materials which could only slowly and partially be decomposed in water. Since the concentration of the components used in the

composition and the solubility of the components is very low and is considered as not dangerous, glass yarns do not have any negative Eco toxicologically impacts.

Biological accumulation capability:

Result of the evaluation of the PTB-properties:

Further harmful properties:

FURTHER INFORMATION

Fiberglass Continuous Filament: The international Agency for Research on Cancer (IARC) in June 1987, categorized fibreglass continuous filament as not classifiable with respect to human carcinogenicity (Group 3). The evidence from human as well as animal studies was evaluated by IARC as insufficient to classify fibreglass continuous filament as a possible, probable or confirmed cancer causing material.

Products that are chopped, crushed or severely mechanically processed during manufacture or use may contain a very small amount of respirable glass fiber like fragments. NIOSH defines «respirable fibers» as greater than 5 microns in length and less than 3 microns in diameter with an aspect ratio of $\geq 5:1$ (length-to-width ratio).

The TXP 1100SS is made of fibers with diameters > 3 microns.

TRANSPORT INFORMATION

N/A. E-Glass products with V4A and HT-finish are according the transport regulations no hazardous goods.

REGULATORY INFORMATION

E-Glass products with V4A and HT-finish are according the transport regulations no hazardous goods.

WGK 1 (textile glass fibres are according to attachment 1 of the administration regulation “hazard water code” not hazardous regarding water (code number 765).

ADDITIONAL INFORMATION

The information, details, dimensions and values indicated are to our best knowledge. We recommend testing according to local conditions. The specifications are subject to change without notice.