

## Safety Data Sheet

according to UK REACH Regulation

### THERMO-E-glass fibre products

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#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

##### 1.1. Product identifier

THERMO-E-glass fibre products

##### Further trade names

THERMO-E-glass fibre products:

fibres, yarns, twisted yarns, webbings, ropes, sleeves, packings, fabrics, needle-mats

- with/without size
- with/without aluminium pigment/dyestuff pigment
- with/without chrome steel/V4A reinforcement
- with/without PU coatings
- with/without PTFE coatings
- with/without GF1/GF2
- with/without G1-Shipyard
- with/without F120
- with/without HT finish
- with/without AR/FH 1000 – AR/FH 1000 AF
- with/without G-Tec/G-Tec Ultra/G-Tec Ultra "LE"
- with/without silicone coatings
- with/without Oleophob finish
- with/without graphite
- with/without Weld guard, ocean-blue
- with/without Weld guard, anchor grey
- with/without Weld guard, splash & spark
- with/without aluminium foil, aluminized PES/PET foil, self-adhesive film, ATF

##### 1.2. Relevant identified uses of the substance or mixture and uses advised against

##### Use of the substance/mixture

Heat protection and insulation product.

##### Uses advised against

Any non-intended use.

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

Firmenname: TECHNO-Gewebe Vajen GmbH  
Straße: Neue Str. 1  
Ort: D-27404 Elsdorf  
Telefon: +49(0) 4286 926600  
E-Mail: [info@techno-gewebe.de](mailto:info@techno-gewebe.de)

Responsible Department: Dr. Gans-Eichler e-mail: [info@tge-consult.de](mailto:info@tge-consult.de)  
Chemieberatung GmbH Tel.: +49(0)2534 6441185  
Otto-Hahn-Str. 36 [www.tge-consult.de](http://www.tge-consult.de)  
D-48161 Münster

##### Further Information

The product is classified as an article. Providing the Safety Data Sheet takes place on a voluntary basis for information purposes.

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

This mixture is classified as not hazardous according to GHS (UK CLP).

Classification according to GHS (UK CLP). The product was not classified since it is an article.

##### 2.2. Label elements

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#### Additional advice on labelling

Labelling according to GB CLP Regulation: There is no requirement for the product to be specially labelled according to EC directives or the corresponding national laws.

#### 2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH, annex XIII. No risks worthy of mention. Please observe the information on the safety data sheet at all times.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

##### Chemical characterization

coated glass fibres

The product does not contain dangerous substances according to UK REACH, Annex II, Part A, 3.1/3.2. that must be mentioned in Chapter 3.

##### Further Information

Product does not contain listed SVHC substances > 0,1 % according to the UK REACH Regulation Article 59.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

##### After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In case of respiratory tract irritation, consult a physician.

##### After contact with skin

Gently wash with plenty of soap and water. In case of skin irritation, seek medical treatment.

##### After contact with eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of troubles or persistent symptoms, consult an ophthalmologist.

##### After ingestion

No special measures are necessary.

#### 4.2. Most important symptoms and effects, both acute and delayed

No information available.

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

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### Suitable extinguishing media

Carbon dioxide (CO<sub>2</sub>). Dry extinguishing powder. alcohol resistant foam. Atomized water.

#### 5.2. Special hazards arising from the substance or mixture

Can be released in case of fire: Gases/vapours, irritant

#### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

##### Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Co-ordinate fire-fighting measures to the fire surroundings.

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#### SECTION 6: Accidental release measures

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

###### **General advice**

See protective measures under point 7 and 8.

##### 6.2. Environmental precautions

Discharge into the environment must be avoided.

##### 6.3. Methods and material for containment and cleaning up

###### **Other information**

Take up mechanically. Avoid dust formation.

Treat the recovered material as prescribed in the section on waste disposal.

Clean contaminated objects and areas thoroughly observing environmental regulations.

##### 6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

#### SECTION 7: Handling and storage

##### 7.1. Precautions for safe handling

###### **Advice on safe handling**

Wear suitable protective clothing. (See section 8.)

###### **Advice on protection against fire and explosion**

Usual measures for fire prevention. Dust clouds may present an explosion hazard.

###### **Further information on handling**

Avoid generation of dust.

General protection and hygiene measures: refer to chapter 8

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

###### **Requirements for storage rooms and vessels**

No special measures are necessary.

###### **Hints on joint storage**

not applicable

###### **Further information on storage conditions**

Store in a dry place.

Protect against: frost. UV-radiation/sunlight. heat. Humidity

##### 7.3. Specific end use(s)

See section 1.

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

##### 8.1. Control parameters

###### **Additional advice on limit values**

To date, no national critical limit values exist.

##### 8.2. Exposure controls

###### **Appropriate engineering controls**

Dust should be exhausted directly at the point of origin.

###### **Protective and hygiene measures**

Do not eat, drink, smoke or sneeze at the workplace. Wash hands before breaks and after work.

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#### Eye/face protection

Dust protection goggles.

#### Hand protection

Gloves recommended for protection against mechanical impact. Suitable gloves type: leather gloves

#### Skin protection

Product at ambient temperature (dust): Long-sleeved coveralls, work boots.

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500 (D).

#### Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory protection necessary at:

-Generation/formation of dust

Suitable respiratory protective equipment: particulates filter device (DIN EN 143). Type P2/3

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

#### Environmental exposure controls

No special precautionary measures are necessary.

### SECTION 9: Physical and chemical properties

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

Physical state:	solid
Colour:	various
Odour:	odourless
pH-Value:	not determined
<b>Changes in the physical state</b>	
Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	not determined
Sublimation point:	not determined
Softening point:	not determined
Pour point:	not determined
Flash point:	not determined
Sustaining combustion:	Not sustaining combustion
<b>Explosive properties</b>	
none	
Lower explosion limits:	not determined
Upper explosion limits:	not determined
Auto-ignition temperature:	not determined
<b>Self-ignition temperature</b>	
Gas:	not determined
<b>Oxidizing properties</b>	
none	
Vapour pressure:	not determined
Density:	2.65 - 2.7 g/cm <sup>3</sup>
Water solubility:	insoluble
<b>Solubility in other solvents</b>	
not determined	

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Partition coefficient n-octanol/water:	SECTION 12: Ecological information
Viscosity / dynamic:	not determined
Viscosity / kinematic:	not determined
Flow time:	not determined
Relative vapour density:	not determined
Evaporation rate:	not determined
Solvent separation test:	not determined
Solvent content:	0%

#### **9.2. Other information**

Solid content:	100%
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### SECTION 10: Stability and reactivity

#### **10.1. Reactivity**

No information available.

#### **10.2. Chemical stability**

The product is chemically stable under recommended conditions of storage, use and temperature.

#### **10.3. Possibility of hazardous reactions**

No information available.

#### **10.4. Conditions to avoid**

Protect against: UV-radiation/sunlight. heat.  
Avoid dust formation.

#### **10.5. Incompatible materials**

Materials to avoid: Oxidizing agents, strong. Reducing agents, strong.

#### **10.6. Hazardous decomposition products**

Can be released in case of fire: Gases/vapours, irritant

### SECTION 11: Toxicological information

#### **11.1. Information on hazard classes as defined in GB CLP Regulation**

##### **Toxicokinetics, metabolism and distribution**

No data available.

##### **Acute toxicity**

Based on available data, the classification criteria are not met.

##### **Irritation and corrosivity**

Based on available data, the classification criteria are not met.

##### **Sensitising effects**

Based on available data, the classification criteria are not met.

##### **Carcinogenic/mutagenic/toxic effects for reproduction**

Based on available data, the classification criteria are not met.  
E-glass filaments are not respirable, as the filament diameter is greater than 3 microns - in most cases even 10 microns - and the length of the fibrous dust more than 5 microns even under strong mechanical stress. The length-to-diameter ratio is in accordance with the directives of the OMS (Organisation Mondiale de la Santé) index greater 3.

##### **STOT-single exposure**

Based on available data, the classification criteria are not met.

##### **STOT-repeated exposure**

Based on available data, the classification criteria are not met.

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#### Aspiration hazard

Based on available data, the classification criteria are not met.

#### Specific effects in experiment on an animal

No data available.

#### Further information

Fiber abrasion can cause mechanical irritation.

### SECTION 12: Ecological information

#### 12.1. Toxicity

The product has not been tested.

#### 12.2. Persistence and degradability

The product has not been tested.

#### 12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

#### 12.4. Mobility in soil

No data available.

#### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

The components in this formulation (>0,1%) do not meet the criteria for classification as PBT or vPvB.

#### 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

#### 12.7. Other adverse effects

No data available.

#### Further information

Do not allow to enter into surface water or drains.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

##### Disposal recommendations

Observe in addition any national regulations! Consult the local waste disposal expert about waste disposal.

Non-contaminated packages may be recycled.

According to (EWC) European Waste Catalogue, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

Control report for waste code/ waste marking according to (EWC) European Waste Catalogue:

##### List of Wastes Code - residues/unused products

101103 WASTES FROM THERMAL PROCESSES; wastes from manufacture of glass and glass products; waste glass-based fibrous materials

##### List of Wastes Code - used product

101103 WASTES FROM THERMAL PROCESSES; wastes from manufacture of glass and glass products; waste glass-based fibrous materials

##### List of Wastes Code - contaminated packaging

150106 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); mixed packaging

##### Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

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#### SECTION 14: Transport information

##### Land transport (ADR/RID)

<b>14.1. UN number:</b>	No dangerous good in sense of these transport regulations.
<b>14.2. UN proper shipping name:</b>	No dangerous good in sense of these transport regulations.
<b>14.3. Transport hazard class(es):</b>	No dangerous good in sense of these transport regulations.
<b>14.4. Packing group:</b>	No dangerous good in sense of these transport regulations.

##### Inland waterways transport (ADN)

<b>14.1. UN number:</b>	No dangerous good in sense of these transport regulations.
<b>14.2. UN proper shipping name:</b>	No dangerous good in sense of these transport regulations.
<b>14.3. Transport hazard class(es):</b>	No dangerous good in sense of these transport regulations.
<b>14.4. Packing group:</b>	No dangerous good in sense of these transport regulations.

##### Marine transport (IMDG)

<b>14.1. UN number:</b>	No dangerous good in sense of these transport regulations.
<b>14.2. UN proper shipping name:</b>	No dangerous good in sense of these transport regulations.
<b>14.3. Transport hazard class(es):</b>	No dangerous good in sense of these transport regulations.

##### Air transport (ICAO-TI/IATA-DGR)

<b>14.1. UN number:</b>	No dangerous good in sense of these transport regulations.
<b>14.2. UN proper shipping name:</b>	No dangerous good in sense of these transport regulations.
<b>14.3. Transport hazard class(es):</b>	No dangerous good in sense of these transport regulations.

##### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

##### 14.6. Special precautions for user

Refer to section 6-8

##### 14.7. Maritime transport in bulk according to IMO instruments

not relevant

#### SECTION 15: Regulatory information

##### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

###### EU regulatory information

2010/75/EU (VOC):	0%
2004/42/EC (VOC):	0g/L
Information according to 2012/18/EU (SEVESO III):	Not subject to 2012/18/EU (SEVESO III)

###### National regulatory information

Water hazard class (D): 1 - slightly hazardous to water

##### 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

#### SECTION 16: Other information

##### Changes

- Rev. 1.00; Initial release: 25.11.2015
- Rev. 1.10; 12.04.2017 Changes in chapter: 1, 16
- Rev. 1.20; 04.06.2019 Changes in chapter: 1, 16
- Rev. 1.30; 24.09.2021 Changes in chapter: 1, 16

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#### Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
CAS: Chemical Abstracts Service  
DNEL: Derived No Effect Level  
IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)  
ICAO: International Civil Aviation Organization  
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)  
LOAEL: Lowest observed adverse effect level  
LOAEC: Lowest observed adverse effect concentration  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
NOAEL: No observed adverse effect level  
NOAEC: No observed adverse effect concentration  
NTP: National Toxicology Program  
N/A: not applicable  
OSHA: Occupational Safety and Health Administration  
PNEC: predicted no effect concentration  
PBT: Persistent bioaccumulative toxic  
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail )  
SARA: Superfund Amendments and Reauthorization Act  
SVHC: substance of very high concern  
TRGS Technische Regeln fuerGefahrstoffe  
TSCA: Toxic Substances Control Act  
VOC: Volatile Organic Compounds

#### Further Information

Classification according to GHS (UK CLP). - Classification procedure:  
Health hazards: Calculation method.  
Environmental hazards: Calculation method.  
Physical hazards: On basis of test data and / or calculated and / or estimated.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*