

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date: 03.12.2015

Version: 2.00

Revision: 03.12.2015

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

· 1.1 Product identifier

· Trade name: **Fiber-glass E-Glass Typ F2F**

· CAS Number:

65997-17-3

· EC number:

266-046-0

· 1.2 Relevant identified uses of the substance or mixture and uses advised against: No further relevant information available.

· Application of the substance / the preparation: Filler/Extender

· Uses advised against -

· 1.3 Details of the supplier of the safety data sheet

· Supplier/Manufacturer:

Profill GmbH
Kirchheimerstr. 1
69214 Eppelheim
Germany

☎ +49 - (0)6221-769 688

Fax: +49 - (0)6221-769 589

Email: r.biallas@profill-gmbh.de

· Email competent person: sds@kft.de

· Information department: See supplier/manufacturer

· 1.4 Emergency telephone number:

National Poison Information Service (NPIS)

24 hour national number professionals only

0844 892 0111

National Health Service (NHS)

24 hour national number consumer

England and Scotland: 111

Wales: 0845 46 47

Northern Ireland: call your local General Practitioner

Call 999 if there is a life-threatening incident.

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008 The substance is not classified according to the CLP regulation.

· Information concerning particular hazards for human and environment:

Mainly resorbed via lungs and gastrointestinal tract.

Dust may irritate the respiratory tract and cause symptoms like bronchitis.

The glass fibre powder is produced in such a form and size that it lies outside the limit values specified in TRGS 905. According to the manufacturer, this form of E-glass fibre powder does not pose a carcinogenic hazard.

Based on the classification criteria for mixtures according to Regulation (EC) No. 1272/2008, the mixture is subject to labelling.

· Classification system:

The classification is based on Regulation (EC) 1272/2008 including its amendments, and on company information.

· 2.2 Label elements

· Labelling according to Regulation (EC) No 1272/2008 Void

· Hazard pictograms Void

· Signal word Void

· Hazard statements Void

(Contd. on page 2)

— GB —

Safety data sheet

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Version: 2.00

Revision: 03.12.2015

Trade name: Fiber-glass E-Glass Typ F2F

(Contd. of page 1)

- **Other notes:**

Labelling is not required if the hazardous properties in the polymer form do not present a hazard to human health by inhalation, ingestion or contact with skin or to the aquatic environment. Nevertheless the user has to be apprised of the contents of such a label by a safety data sheet.

- **2.3 Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable

- **vPvB:** Not applicable

SECTION 3: Composition/information on ingredients

- **3.1 Chemical characterisation: Substances**

- **CAS No. Description:**

65997-17-3 Glass, oxide, chemicals

- **Identification number(s):**

- **EC number:** 266-046-0

- **Additional information:**

SiO₂ 55.2%

CaO 25.7%

Al₂O₃ 14.2%

Cl 2.0%

MgO 1.4%

K₂O 0.6%

- **Dangerous components:** Void

SECTION 4: First aid measures

- **4.1 Description of first aid measures**

- **General information:** If symptoms persist or in case of doubt, seek medical advice.

- **After inhalation:**

Supply fresh air or oxygen; call a doctor.

In case of unconsciousness, place patients on their side in a stable position for transportation.

- **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

- **After eye contact:**

Protect unharmed eye.

Rinse the eyes with open eyelids for 10 - 15 minutes with water. Then consult an eye specialist immediately.

- **After swallowing:**

Rinse mouth with water.

Spit liquid out again.

If symptoms persist, consult doctor.

- **4.2 Most important symptoms and effects, both acute and delayed**

Local irritation symptoms

Irritant effect on the respiratory tract

Serious damage to eyes

- **4.3 Indication of any immediate medical attention and special treatment needed**

Symptomatic treatment

In cases of irritation to the lungs, initial treatment with Dexametason metered aerosol

— GB —

(Contd. on page 3)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date: 03.12.2015

Version: 2.00

Revision: 03.12.2015

Trade name: Fiber-glass E-Glass Typ F2F

(Contd. of page 2)

SECTION 5: Firefighting measures

· 5.1 Extinguishing media

· Suitable extinguishing agents:

The product is not combustible and does not support any combustion.
Use fire fighting measures suiting the environment.

· For safety reasons unsuitable extinguishing agents: High volume water jet

· 5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released:

Risk of dust explosion if enriched with fine dust while being exposed to air

Silicon oxide

Chlorine dioxide

Calcium oxide (CaO)

Aluminium oxide

Magnesium oxide

Ethanoic acid

Organic pyrolyzates

· 5.3 Advice for firefighters

· Protective equipment:

Wear self-contained respiratory protective device.

Wear a fully protective suit.

· Additional information:

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.



Wear protective equipment. Keep unprotected persons away.

Avoid contact with eyes and skin.

Avoid formation of dust.

Do not breath dust

Use respiratory protective device against the effects of fumes/dust/aerosol.

· 6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.

Do not allow to penetrate the ground/soil.

· 6.3 Methods and material for containment and cleaning up:

Pick up mechanically.

Ensure adequate ventilation.

Avoid dust formation.

Avoid any dust formation. Pick up with a tested and approved industrial vacuum cleaner if necessary.

Make sure to recycle or dispose of in suitable receptacles.

· 6.4 Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

(Contd. on page 4)

GB

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date: 03.12.2015

Version: 2.00

Revision: 03.12.2015

Trade name: Fiber-glass E-Glass Typ F2F

(Contd. of page 3)

- Prevent formation of aerosols.
 - Avoid contact with eyes and skin.
 - Avoid inhalation of vapours.
 - **Information about protection against explosions and fires:** Observe the general rules of industrial fire protection.
 - **7.2 Conditions for safe storage, including any incompatibilities**
 - **Storage:**
 - **Requirements to be met by storerooms and receptacles:** Store under dry conditions.
 - **Information about storage in one common storage facility:**
 - Store away from foodstuffs.
 - Store away from feed.
 - Refer to national regulations for storing hazardous chemicals.
 - **Further information about storage conditions:** Keep receptacle tightly sealed.
 - **Storage class:** 10-13 other combustible and non-combustible substances
 - **7.3 Specific end use(s)** No further relevant information available
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SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical systems:**
- Mechanical ventilation/exhaustion is strongly recommended.
- No further data; see section 7.
- **8.1 Control parameters**
- **Components with limit values that require monitoring at the workplace:**
- 1305-78-8 calcium oxide**
- WEL (Great Britain) Long-term value: 2 mg/m³
- 1344-28-1 aluminium oxide**
- WEL (Great Britain) Long-term value: 10* 4** mg/m³
- *inhalable dust **respirable dust
- 7782-50-5 chlorine**
- WEL (Great Britain) Short-term value: 1.5 mg/m³, 0.5 ppm
- IOELV (European Union) Short-term value: 1.5 mg/m³, 0.5 ppm
- 1309-48-4 magnesium oxide**
- WEL (Great Britain) Long-term value: 10* 4** mg/m³
- (as Mg) *inhalable dust **fume and respirable dust
- **CAS No. Designation of material % Type Value Unit**
- **Additional Occupational Exposure Limit Values for possible hazards during processing:**
- Observe general threshold limit for dust.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
- The usual precautionary measures should be adhered to when handling chemicals.
- Do not eat, drink, smoke or sniff while working.
- Keep away from foodstuffs, beverages and feed.
- Remove all soiled and contaminated clothing immediately.
- Do not inhale dust/smoke/mist.
- Wash hands before breaks and at the end of work.
- Avoid contact with eyes and skin.
- After contact with eyes, rinse immediately.
- After skin contact, cleanse skin thoroughly.
- Provide eye bath.
- **Breathing equipment:**
- In case of unintentional release of substance, exceeding the occupational exposure limit value:

(Contd. on page 5)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date: 03.12.2015

Version: 2.00

Revision: 03.12.2015

Trade name: Fiber-glass E-Glass Typ F2F

(Contd. of page 4)

Short term filter device:

Filter P2

- **Protection of hands:**

Chemical resistant gloves (EN 374)

The glove material has to be impermeable and resistant to the product/substance/preparation.

Due to missing tests no recommendation to the glove material can be given for the product / preparation / chemical mixture.

Selection of the glove material in consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves:**

For undissolved solid substances following materials may be suitable:

nitrile rubber (NBR), butyl rubber (BR), fluorocarbon rubber (FKM) and polychloroprene rubber (CR)

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

- **Penetration time of glove material:**

The exact penetration time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:** Tightly sealed goggles

- **Body protection:** Dust-proof protective clothing

SECTION 9: Physical and chemical properties

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

- **General Information:**

- **Appearance:**

Form:	Powder
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Colour:	White
	Yellowish

Odour:	Odourless
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Odour threshold:	Not determined
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pH-value:	Not applicable
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- **Change in condition:**

Melting point/Melting range:	Not determined
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Boiling point/Boiling range:	Not determined
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Flash point:	Not applicable
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Flammability (solid, gaseous):	Product is not flammable.
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Ignition temperature:	Not applicable
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Decomposition temperature:	Not determined
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Self ignition temperature:	Not determined
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Danger of explosion:	Product does not present an explosion hazard.
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- **Explosion limits:**

Lower:	Not applicable
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Upper:	Not applicable
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Oxidizing properties:	Not determined
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Vapour pressure:	Not applicable
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Density:	Not determined
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Relative density:	2,65-2,7
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Vapour density:	Not applicable
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Evaporation rate:	Not applicable
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- **Solubility in / Miscibility with**

Water:	Insoluble
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Partition coefficient (n-octanol/water):	Not determined
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(Contd. on page 6)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date: 03.12.2015

Version: 2.00

Revision: 03.12.2015

Trade name: Fiber-glass E-Glass Typ F2F

(Contd. of page 5)

· Viscosity:	
dynamic:	Not applicable
kinematic:	Not applicable
· 9.2 Other information	Fiber length: >40µm (depends on type) Diameter of filament: >10 µm (depending on product)

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used and stored according to specifications
- **10.3 Possibility of hazardous reactions** No dangerous reactions known
- **10.4 Conditions to avoid** No further relevant information available
- **10.5 Incompatible materials:** No further relevant information available
- **10.6 Hazardous decomposition products:**
No hazardous decomposition products if instructions for storage and handling are followed

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **LD/LC50 values that are relevant for classification:** There are no quantitative data available for the product itself.
- **Primary irritant effect:**
- **Skin corrosion/irritation** Mild irritation of the skin is possible for persons with a sensitive skin.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Toxicokinetics, metabolism and distribution:**
E-glass microfibre dissolves relatively slowly in vitro at pH 7.4 and in lung fluid. Fibre dissolution by lung fluid at acidic pH by macrophages is making them brittle and the longer fibres are then broken into shorter fibres.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity**
E-glass microfibre has been shown to induce lung tumours (carcinoma and adenoma) at high concentrations in long-term inhalation studies, probably due to the higher biopersistence of fibers longer than 20 µm. The mechanism by which E-glass microfibre induces lung tumours is not fully elucidated but overload of cellular clearance mechanisms has been suggested.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **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.
- **Aspiration hazard** Not relevant

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available
- **12.2 Persistence and degradability** No further relevant information available
- **12.3 Bioaccumulative potential** No further relevant information available
- **12.4 Mobility in soil** No further relevant information available
- **Ecotoxicological effects:**
- **Remark:** Very toxic for fish
- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous to water

(Contd. on page 7)

Safety data sheet

according to 1907/2006/EC, Article 31

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Version: 2.00

Revision: 03.12.2015

Trade name: Fiber-glass E-Glass Typ F2F

(Contd. of page 6)

According to appendix 4 of VwVwS dated 17.05.1999 (German regulation)
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Danger to drinking water is possible if large quantities leak into the ground or into water course.

Also poisonous for fish and plankton in water bodies

Very toxic to aquatic organisms

· **12.5 Results of PBT and vPvB assessment**

· **PBT:** Not applicable

· **vPvB:** Not applicable

· **12.6 Other adverse effects** No further relevant information available

SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**

· **Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Disposal according to instructions of local authorities

Must be recycled or disposed of according to the regulations. Waste has to be classified according to the European Waste Catalogue based on the identification of the waste generating source.

· **European waste catalogue:**

06 00 00 WASTES FROM INORGANIC CHEMICAL PROCESSES

06 08 00 wastes from the MFSU of silicon and silicon derivatives

06 08 99 wastes not otherwise specified

· **Uncleaned packagings:**

· **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

· **14.1 UN-Number**

· **ADR, ADN, IMDG, IATA** Void

· **14.2 UN proper shipping name**

· **ADR, ADN, IMDG, IATA** Void

· **14.3 Transport hazard class(es)**

· **ADR, ADN, IMDG, IATA**

· **Class** Void

· **14.4 Packing group**

· **ADR, IMDG, IATA** Void

· **14.5 Environmental hazards:** Not applicable

· **14.6 Special precautions for user**

Not applicable

· **Stowage Category**

A

· **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable

· **UN "Model Regulation":**

Void

SECTION 15: Regulatory information

· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **Directive 2012/18/EU**

· **Named dangerous substances - ANNEX I chlorine**

(Contd. on page 8)

Safety data sheet

according to 1907/2006/EC, Article 31

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Trade name: Fiber-glass E-Glass Typ F2F

(Contd. of page 7)

- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 100 t
 - **Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t
 - **National regulations**
 - **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water
 - **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.
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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.

- **Reasons for amendments:**

Classification
 Labelling
 Data on components
 General revision
 EC Regulation 453/2010
 Waste catalog code
 Transport classification

- **Replaces version dated:** 29.2.2012

- **Department issuing MSDS:**

KFT Chemieservice GmbH
 Im Leuschnerpark. 3 64347 Griesheim
 Postfach 1451 64345 Griesheim
 Germany

Phone: +49 6155 86829-0 Fax: +49 6155 86829-25

Safety Data Sheet Service: +49 6155 86829-22

- **Contact:** Dr. Sonja Fischer

- **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)
 RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
 IMDG: International Maritime Code for Dangerous Goods
 DOT: US Department of Transportation
 IATA: International Air Transport Association
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 PBT: Persistent, Bioaccumulative and Toxic
 vPvB: very Persistent and very Bioaccumulative

- **Sources:**

MSDS of the supplier
 Information provided by the manufacturer

- *** Data compared to the previous version altered.**

Changes have been made to sections marked with a *, as compared to the previous version.
