

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 29.11.2017

Revision: 29.11.2017

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

* **1.1 Product identifier**

* **Trade name:** *Flightfloor Eco for GFRP, Flightfloor Eco*

* **Article number:** e.g. VV020944A1500A, VV020224A1500A,

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

* **Sector of Use**

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

* **Product category** PC32 Polymer preparations and compounds

* **Process category** PROC5 Mixing or blending in batch processes

* **Environmental release category**

ERC6d Use of reactive process regulators in polymerisation processes at industrial site (inclusion or not into/onto article)

* **Article category** AC13 Plastic articles

* **Application of the substance / the mixture** TPU-Foil

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

* **Manufacturer/Supplier:**

Benecke-Hornschuch Surface Group

Beneckeeallee 40

30419 Hannover

Fon: +49(0)5116302-0
Fax: +49(0)5116302-206

* **Informing department:** During the normal working hours: see No. 16 !

* **1.4 Emergency telephone number:** plant fire department: +495116302112

SECTION 2: Hazards identification

* **2.1 Classification of the substance or mixture**

* **Classification according to Regulation (EC) No 1272/2008**

The product is not classified according to the CLP regulation.

* **2.2 Label elements**

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

* **Hazard pictograms** Void

* **Signal word** Void

* **Hazard statements** Void

* **2.3 Other hazards**

* **Results of PBT and vPvB assessment**

* **PBT:** Not applicable.

* **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

* **3.2 Chemical characterisation: Mixtures**

* **Description:** TPU-foil

* **Dangerous components:** To manufacture the product their are put in following compounds:

* **CAS NO. Designation** % **Index / R-phrases (GefStoffV)**

Formulation of components named above.

* **Additional information**

Hazard properties are pasable of the primary products; the final product has no hazard properties according to valuable statues.

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SECTION 4: First aid measures

*** 4.1 Description of first aid measures**

*** General information**

No special measures required.

At deviation from regular operation (eg.heat effect):

*** After inhalation** Supply fresh air; consult doctor in case of symptoms.

*** After skin contact** The product is not skin irritating.

*** After eye contact** Rinse opened eye for several minutes under running water.

*** After swallowing** In case of persistent symptoms consult doctor.

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

No further relevant information available.

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

No further relevant information available.

SECTION 5: Firefighting measures

*** 5.1 Extinguishing media**

*** Suitable extinguishing agents**

CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

*** For safety reasons unsuitable extinguishing agents** Water with a full water jet.

*** 5.2 Special hazards arising from the substance or mixture**

Under certain fire conditions, traces of toxic gases can not be excluded..

*** 5.3 Advice for firefighters**

*** Protective equipment:** Wear self-contained breathing apparatus.

*** Additional information**

Collect contaminated fire fighting water separately. It must not enter drains.

SECTION 6: Accidental release measures

*** 6.1 Personal precautions, protective equipment and emergency procedures** Not required.

*** 6.2 Environmental precautions:** No special measures required.

*** 6.3 Methods and material for containment and cleaning up:** Collect mechanically.

*** 6.4 Reference to other sections** No dangerous materials are released.

SECTION 7: Handling and storage

*** 7.1 Precautions for safe handling** No special measures required.

*** Information about protection against explosions and fires:** No special measures required.

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

*** Storage**

*** Requirements to be met by storerooms and containers:** No special requirements.

*** Information about storage in one common storage facility:** Not required.

*** Further information about storage conditions:** None.

*** 7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

*** Additional information about design of technical systems:** No further data; see item 7.

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*** 8.1 Control parameters**

*** Components with limit values that require monitoring at the workplace:**

The delivered product doesn't show any unusual properties.

At thermoforming process (> 150°C) there parts of formulation or their decomposition products can evaporate. The type and their amounts depend on the process parameters (eg. temperature, formulation).

We recommend the installation of an effective local exhaust system (thermoforming area) to fulfil the ordinances based on the EC safety regulations.

*** CAS No. Designation of material % Type Value Unit**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

*** Additional information:** The lists that were valid during the compilation were used as basis.

*** 8.2 Exposure controls**

*** Personal protective equipment**

*** General protective and hygienic measures**

The usual precautionary measures should be adhered to general rules for handling chemicals.

*** Breathing equipment:** Not required.

*** Protection of hands:**

Wear gloves for the protection against mechanical hazards according to EN 388.

*** Material of gloves** Conditioned by processing status

*** Penetration time of glove material**

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

*** Eye protection:** Not required.

SECTION 9: Physical and chemical properties

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

*** General Information**

*** Appearance:**

Form:	Foil
Colour:	According to product specification
* Odour:	Characteristic

*** Change in condition**

Melting point/freezing point:	Not determined
Initial boiling point and boiling range:	not applicable

*** Flash point:** Not applicable

*** Self-inflammability:** Product is not selfigniting.

*** Explosive properties:** Product is not explosive.

*** Density at 20 °C**

*** Surface weight at 20 °C:** -

*** Solubility in / Miscibility with**

Water: Insoluble

*** Solvent content:**

Organic solvents: < 1 %

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Solids content:	100 %
*9.2 Other information	No further relevant information available.

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 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:**
Combustion will produce carbon dioxide, probably carbon monoxide as well as parts of the primary products of their crack-products. This depends on a number of parameter like temperature, continuance of the temperature effect as well as the surrounding conditions.

SECTION 11: Toxicological information

- * **11.1 Information on toxicological effects**
- * **Acute toxicity** Based on available data, the classification criteria are not met.
- * **Primary irritant effect:**
- * **Skin corrosion/irritation** No irritant effect.
- * **Serious eye damage/irritation** No irritant effect.
- * **Respiratory or skin sensitisation** No sensitizing effect known.
- * **Additional toxicological information:**
The product is not subject to classification according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.
- * **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- * **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- * **Carcinogenicity** Based on available data, the classification criteria are not met.
- * **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** Based on available data, the classification criteria are not met.

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.
- * **Additional ecological information:**
- * **General notes:** Water hazard class: not applicable for foil
- * **12.5 Results of PBT and vPvB assessment**
- * **PBT:** Not applicable.

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- * **vPvB:** Not applicable.
- * **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- * **13.1 Waste treatment methods**
- * **Recommendation** Smaller quantities can be disposed with household waste.
- * **Waste disposal key number:**
07 02 13: Wastes from the production, preparation, processing and use of synthetic rubber and artificial fibers; Plastic wastes
- * **Uncleaned packagings:** not applicable
- * **Recommendation:** void

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:	
* Marine pollutant:	No
* 14.6 Special precautions for user	Not applicable.
* 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
* Transport/Additional information:	Not dangerous according to the above specifications.
* UN "Model Regulation":	Void

SECTION 15: Regulatory information

- * **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- * **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 52b
- * **National regulations**
- * **Technical instructions (air):**
- * **Class Share in %** not analysed
- * **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

*** Department issuing data specification sheet:**

Department of environment and working security

Tel.: +49(0)511/6302-0 Fax: +49(0)511/6302-311

*** 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)

IMDG: International Maritime Code for Dangerous Goods

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)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

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