

# Material Safety Data Sheet

According to 91/155 EC

Printing date 20.02.2003

Reviewed on 19.02.2003

## 1 Identification of substance:

**\*Product details:****\*Trade name:** *Flightfloor classic***\*Application of the substance / the preparation** *PVC interior trim***\*Manufacturer/Supplier:***Benecke-Kaliko AG**Beneckallee 40**30419 Hannover**Telefon: 0511/6302-0**Telefax: 0511/6302-206***\*Informing department:** *During the normal working hours: see No. 16 !*

## 2 Composition/Data on components:

**\*Chemical characterization****\*Description:***PVC-foil**backing fabrics: polyester tissue***\*Dangerous components:** *To manufacture the product their are put in following compounds:***\* CAS NO. Designation % Index / R-phrases (GefStoffV)***raw material: F, R 11; Xn, R 40-42-44; Xi, R 36/38-43-66-67; N, R 51/53***\*Additional information***Hazard properties are pasable of the primary products; the final product has no hazard properties according to valuable statuses.*

## 3 Hazards identification

**\*Hazard designation:** *void***\*Information pertaining to particular dangers for man and environment** *void***\*Classification system***The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.*

## 4 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.*

## 5 Fire fighting measures

**\*Suitable extinguishing agents***CO<sub>2</sub>, 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.***\*Special hazards caused by the material, its products of combustion or resulting gases:***Education of hydrogen chloride is possible.***\*Protective equipment:** *Wear self-contained breathing apparatus.***\*Additional information** *Collect contaminated fire fighting water separately. It must not enter drains.*

## 6 Accidental release measures

**\*Person-related safety precautions:** *Not required.***\*Measures for environmental protection:** *No special measures required.***\*Measures for cleaning/collecting:** *Collect mechanically.*

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*\*Additional information: No dangerous materials are released.*

### 7 Handling and storage

**\*Handling**

*\*Information for safe handling: No special measures required.*

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

**\*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.*

### 8 Exposure controls and personal protection

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

**\*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.*

**\*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:**

*No hand protection requested.*

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

*\*Material of gloves Conditioned by processing status*

**\*Penetration time of glove material**

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

*\*Eye protection: Not required.*

### 9 Physical and chemical properties:

**\*General Information**

<b>Form:</b>	Foil
<b>Colour:</b>	According to product specification
<b>Odour:</b>	Characteristic

**\*Change in condition**

*Melting point/Melting range: Not determined*

*Boiling point/Boiling range: not applicable*

*\*Flash point: Not applicable*

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

*\*Danger of explosion: Product is not explosive.*

*\*Density at 20°C 1.1 g/cm<sup>3</sup>*

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*Weight of foil at 20°C	1800 g/m <sup>2</sup>
*Solubility in / Miscibility with Water:	Unsoluble
*Solvent content: Organic solvents:	< 1 %
*Solids content:	100 %

### 10 Stability and reactivity

\***Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

\***Dangerous reactions** No dangerous reactions known

\***Dangerous products of decomposition:**

Combustion will produce carbondioxide, probably carbonmonoxide and vapour of hydrochlorid acid 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 compound of the product. Here we recommend effective local exhaust to protect the employees.

### 11 Toxicological information

\***Primary irritant effect:**

\***on the skin:** No irritant effect.

\***on the eye:** No irritant effect.

\***Sensitization:** 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.

### 12 Ecological information:

\***General notes:** Water hazard class: not applicable for foil

### 13 Disposal considerations

\***Product:**

\***Recommendation** Smaller quantities can be disposed with household waste.

\***Waste disposal key number:** 07 02 13: plastics

\***Uncleaned packagings:** not applicable

\***Recommendation:** void

### 14 Transport information

\***Maritime transport IMDG:**

\***Marine pollutant:** No

\***Transport/Additional information:** Not dangerous according to the above specifications.

### 15 Regulatory information

\***Designation according to EC guidelines:**

Observe the normal safety regulations when handling chemicals

The product is not subject to identification regulations under EC Directives and the Ordinance on Hazardous Materials (GefStoffV).

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*\*National regulations**\*Technical instructions (air):**\*Class Share in % not analysed**\*Water hazard class: not applicable for foil***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.: 0511/6302-637 Fax: 0511/6302-206*

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