

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 plus****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 informationNo 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 agentsCO₂, 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**

| | |
|----------------|------------------------------------|
| Form: | Foil |
| Colour: | According to product specification |
| Odour: | 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/cm³

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| | |
|--|-----------------------|
| *Weight of foil at 20°C | 2600 g/m ² |
| *Solubility in / Miscibility with Water: | Insoluble |
| *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 houshold 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*