

MATERIAL SAFETY DATA SHEET

Page:
Date:

1 of 8
31.07.15

1. Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifier

Thermoforming Foil Track B

CAS - number: -
EC - number (EINECS/ELINCS): -
EC -index – number: -
REACH registration number: -

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

Identified uses of the substance or mixture: Plastic articles
Not recommended uses of the substance or mixture: Other

1.3 Details of the supplier of the safety data sheet

Manufacturer

FORESTADENT
Bernhard Förster GmbH
Westliche Karl Friedrich Str.

Telephone: 07231 459 0
Fax: 07231 459 102

D – 75172 Pforzheim

Supplier

FORESTADENT
Bernhard Förster GmbH
Westliche Karl Friedrich Str. 151

Telephone: 07231 459 0
Fax: 07231 459 102

D – 75172 Pforzheim

Information contact

FORESTADENT Bernhard Förster GmbH

Information Telephone: 07231 459 136
Information fax: 07231 459 102
E-Mail (competent person): gerold.grosskopf@forestadent.com
Website: www.forestadent.de

National contact

FORESTADENT Bernhard Förster GmbH

Information Telephone: 07231 459 0
Information fax: 07231 459 102
E-Mail (competent person): info@forestadent.com
Website: www.forestadent.de

1.4 Emergency telephone number

FORESTADENT Bernhard Förster GmbH
Only available during office hours.

Telephone: 07231 459 0

1.5 Dept. responsible for information

telephone: 07231 459 0

2. Hazard identification

2.1 Classification of the substance or mixture

Regulation (EC) No 1272/2008: -

Directive 67/548/EEC: -

2.2.1 Label elements

2.2 Labelling according to Regulation (EC) Nr. 1272/2008

Hazard pictograms:

Signal word: -

H phrases: -

P phrases: -

2.2.2 Labelling according to Directive Nr. 67/548/EEC

Hazard symbols:

R phrases: -

S phrases: -

2.3 Other hazards

This substance is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]. This substance is classified as not hazardous according to 67/548/EEC.

3. Composition/information on ingredients

3.1 Chemical characterization of the substance mixture

Polyethylenteraphthalat PET-G, CAS NUMBER – 25640-14-6

Thermoplastic Polyurethan TPU, CAS NUMBER – 9018-04-6

3.2 Composition of the substance or mixture

Substance:	EC-no.:	CAS-No.:	INDEX-no.:	REACH-no.:	Concentration:	Classification: EC 1272/2008(CLP):	Classification: 67/548/EEC
Polyethylenteraphthalat PET-G							
Thermoplastic Polyurethan TPU							

Ingredients with EC exposure limits

Substance:	EC-no.:	CAS-No.:	INDEX-no.:	REACH-no.:	Concentration:	Classification: EC 1272/2008(CLP):	Classification: 67/548/EEC

(The wording of the listed risk phrases is given in Chapter 16)

3.3 Addition information

none

4. First aid measures

4.1 Description of first aid measures

General information:

No special measures are necessary

Following inhalation:

Do not breathe dust. Dust should be exhausted directly at the point of origin. Inhalation of dust may cause irritation of the respiration system.

After skin contact:

No special measures are necessary. Following contact with the melted product, quickly cool affected skin area with water. Immerse in cold water for a prolonged period. Burns caused by molten material must be treated clinically. Irritation to skin. Slightly irritant.

Following eye contact:

Rinse immediately carefully and thoroughly with eye-bath or water. In case of troubles or persistent symptoms, consult an ophthalmologist. Irritating to eyes. Dust protection goggles.

After ingestion:

No special measures are necessary.

Self-protection:

First aid assistant: Pay attention to self-protection!

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: No information available.
Nature of Hazard: No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Emergency aid: No information available.
Treatment: No information available.

5. Fire fighting measures

5.1 General information

Use water spray/ stream to protect personnel and to cool endanger containers.

5.2 Extinguishing media

Suitable: Extinguishing powder. Carbon dioxide. Alcohol resistant foam. Water spray.
Unsuitable: High power water jet.

5.3 Special hazards arising from the substance or mixture

Can be released in case on fire: Carbon dioxide (CO₂). Carbon monoxide. Sulphur dioxide (SO₂). Formaldehyde

5.4 Advice for fire fighters

Special protective equipment for fire-fighters

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

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

No special measures are necessary.

6.2 Environment precautions

Do not empty into drains or the aquatic environment. Do not allow to enter into soil/ subsoil.

6.3 Methods and material for a containment and cleaning up

Take up mechanically, placing in appropriate containers for disposal.

6.4 References to other sections

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

7. Handling and storage

7.1 Precautions for safe handling

Information for safe handling

Avoid generation of dust. Dust must be vacuumed up immediately at the place it occurs.

Technical measures

Use extractor hood (laboratory). Keep the packing dry and well sealed to prevent contamination and absorption of dampness.

Precautions against fire and explosion

Keep away from sources of ignition – No smoking. Keep away from heat.

Additional information

none

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

No special technical protective measures are necessary.

Packaging materials

Store in a dry place.

Information about storing together in storage facility

Conditions to avoid: UV-radiation/sunlight.

Further information concerning storage conditions

Always close containers tightly after the removal of product. At room temperature.

Storage class: 11

7.3 Specific end use(s)

Observe instruction for use.

8. Exposure controls / personal protection

8.1 Control parameters

8.1.1 Limits for occupational exposure

Exposure limit values

Substance:	CAS-No.:	Source:	Occupational exposure limit value	Limitation of exposure peaks:	Remark:
------------	----------	---------	-----------------------------------	-------------------------------	---------

EC exposure limit values

Substance:	CAS-No.:	Source:	Occupational exposure limit value	Limitation of exposure peaks:	Remark:
------------	----------	---------	-----------------------------------	-------------------------------	---------

8.1.2 DNEL- and PNEC values

DNEL-values

Substance:	CAS-No.:	DNEL/DMEL	Industry	Professional	consumer
------------	----------	-----------	----------	--------------	----------

DNEL-Werte

Substance:	CAS-No.:	PNEC	Worker, industry	Worker, professional	consumer:
------------	----------	------	------------------	----------------------	-----------

8.1.3 Control-Banding

none

8.1.4 Additional information

none

8.2 Exposure controls

Occupational exposure controls

none

Chemical handling

Do not eat, drink, smoke or sneeze at the workplace. Wash hands before breaks and at the end of work. Take off immediately all contaminated clothing.

Personal protection equipment

Dust protection goggles.

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required. Technical ventilation of workplace.

Hand protection

See chapter 7. No additional measures necessary.

Eye protection

Dust protection goggles

Skin protection

Skin protection: not required.

Environment exposure controls

Refer to chapter 7. No further action is necessary

Consumer exposure controls

Refer to chapter 7. No further action is necessary

8.3 Exposure scenario

none

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

State of matter:	solid
Colour:	Different
Odour:	characteristic
Odour threshold:	no data available

Safety relevant basic data

Parameter	Value	Unit	Remark
Density:	1,17	G/cm ³	
Package density:			not determined
pH:			not applicable
Melting point /-range:	180-220	°C	
Boiling temperature /-range:			not determined
Flash point:	>200	°C	
Flammability:			not determined
Lower flammability limit:			not determined
Upper flammability limit:			not determined
Explosion hazard:			not explosive
Lower explosion limit:			not applicable
Upper explosions limit:			not applicable
Ignition temperature:			not determined
Decomposition temperature:	>230	°C	
Oxidizing characteristics:			not determined
Vapour pressure:			not applicable
Relative vapour density:			not applicable
Speed of vaporization / evaporation rate			not applicable
Solubility in water:			insoluble
Fat solubility:			not determined
Solubility in: :			not determined
Log P O/W (n-octanol / water):			not determined
Viscosity:			not applicable
Solvent separation test:			not applicable
Solvent contact:			not applicable

9.2 Other information

No information available.

10. Stability and reactivity

10.1 Reactivity

No risk worthy of mention. No data available

10.2 Chemical stability

Reacts with: Solvents/Thinner Etchant and acids

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

UV-radiation / sunlight

10.5 Incompatible materials

Acid. Base. Oxidizing agents

10.6 Hazardous decomposition products

Hydrocarbons. Carbon dioxide (CO₂) Carbon monoxide. Aldehydes

10.7 Additional information

none

11. Toxicological information

11.1 Information on toxicological effects

Medical product / medical device product
Cytototest: no abnormality detected

Acute toxicity

Substance:	CAS-No.:	Toxicological information
------------	----------	---------------------------

Specific symptoms in laboratory animals

Toxicological data are not available.

11.2 Irritation and etching

Irritant effect on the skin

In case of the formation of dust

Irritant effect on the eye

Irritating to eyes. In the case of the formation of dust.

Irritant effect on the respiratory tract

Inhalation of dust may cause irritation of the respiratory system.

Etching

none

11.3 Sensitisation

Toxicological data are not available.

11.4 Repeated dose toxicity

Toxicological data are not available

11.5 CMR effects

Carcinogenicity

No indications of human carcinogenicity.

Mutagenicity

No indications of human germ cell mutagenicity exist.

Reproductive toxicity

Toxicological data are not available.

11.6 General remarks

No information available.

Practical experience

No information available.

Other observations

No information available.

Additional information

No information available.

12. Ecologic information

12.1 Toxicity

none

Eco toxicity

Substance:	CAS-No.:	Ecotoxicity
------------	----------	-------------

12.2 Persistence and degradability

No information available

12.3 Bio accumulative potential

No information available

12.4 Mobility in soil

No information available

12.5 Results of PBT – and vPvB – assessment

not applicable

12.6 Other adverse effects

No information available.

12.7 Further ecological information

non-hazardous to water (nwg)

12.8 Further details

none

13. Disposal considerations

13.1 Waste treatment methods

Appropriate disposal/ Product

Can be burnt together with household waste in compliance with official regulations in contact with approved waste disposal companies and with authorities in charge.

Appropriate disposal/ packaging

Dispose of waste according to " Kreislaufwirtschafts- und Abfallgesetz (KrW-/AbfG)".

Control report for waste code/ waste marking according to EAKV

Dispose of waste according to „Kreislaufwirtschaft- und Abfallgesetz (KrW-/AbfG)".

Waste key product: 20 01 39 – Plastic

Waste key packaging:

Remark

Waste disposal according to official state regulations.

14. Transport information

14.1 Overland transport (ADR/RID)

Proper Shipping name

UN-No.:

Label:

Packing Group:

Classification code:

Remark: Not a hazardous material with respect to these transportation regulations.

14.2 Transport by sea (IMDG)

Proper Shipping name:

UN-No.:

Label:

Packing Group:

EmS-No:

MFAG:

Marine pollutant:

Special Provisions:

Remark: Not a hazardous material with respect to these transportation regulations.

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

Proper Shipping name:

UN/ID-No.:

Label:

Packing Group:

Remark:

Not a hazardous material with respect to these transportation regulations.

14.4 Mail

Not a hazardous material with respect to these transportation regulations

15. Regulatory information

15.1 Labelling

Hazardous component(s) for labelling

Special labelling of particular preparations

No label required according to 1999/45/EC, annex V B, No. 9.

15.2 Safety, health and environmental regulations/legislation specific for the Substance or mixture

EU-Regulation

Directive 1999/13/EC on the limitation of emissions of volatile organic compounds (VOC-RL)

none

Regulation (EC) No. 2037/2000 on substance that deplete the ozone layer

none

Regulation (EC) No. 850/2004 on persistent organic pollutants

none

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals

none

Regulation (EC) No. 648/2004 (Detergents regulation)

none

Restriction under Title VIII of Regulation (EC) No. 1907/2006
none

National regulations

Moreover, national legislation has to be observed!

Informations on working limitations

none

Major Accidents Ordinance

Not subject to StörfallVO.

Storage class according to VCI

11 Combustible solids

Water Hazard Class according to VwVwS

0 not a water pollutant

Technical Instructions on Air Quality Control (TA-Luft)

General rules

Further regulations, limitations and legal requirements

none

15.3 Chemical safety assessment

For this preparation a chemical safety assessment has been carried out:

For this substance a chemical safety assessment has not been carried out.

16. Other information

16.1 Wording of the H and R-phrases under paragraph 3

Regulation (EC) No. 1272/2008

-

Directive 67/548/EEC

-

16.2 Training instructions

none

16.3 Recommended restrictions of use

none

16.4 Further remarks

The above information describes exclusively the safety requirement 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 the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

16.5 Documentation of changes

none

16.6 Data sources

none/none

16.7 Key and definition

none

17. Appendix

17.1 Exposure scenario

-

created:

MF

Rev.:

02

Checked:

30.07.2015