

**Trade name: Usig-foil****Safety data sheet in accordance with 91/155/EEC**

Date of printing : 14.07.2009

**01. Identification**

01.01 Product details	
01.01.01. Trade name	Usig-foil
01.02. Identification of the manufacturer	
01.02.01. Address	ERKODENT Erich Kopp GmbH, Siemensstr. 3, D-72285 Pfalzgrafenweiler
01.02.02. Information provided by	Chemie
01.02.03. Telephone number	Tel.: (+49) (0) 7445 / 85 01 - 0, Fax: (+49) (0) 7445 / 20 92
01.02.04. Emergency telephone number :	

**02. Composition/information on ingredients**

02.01. Chemical characterization	PETG Polyethylenterephthalat-Glycolmodifiziert Ethylen-1,4-cyclohexylen dimethylen terephthalat copolymer, antibacterial additive
02.02. Substance / product identification	-
02.03. Hazardous ingredients	None.
02.04. Additional information	-

**03. Hazards possibilities**

03.01. Hazard designation	-
03.02. Particular information pertaining specific risk for human / environment	-

**04. First aid measures**

04.01. General Information	
04.02. First aid measures / inhalation.	n.a.
04.03. First aid measures / skin contact.	After contact with molten product cool quickly with cold water.
04.04. First aid measures / eye contact.	Separate eyelids, wash the eyes thoroughly with water (15 min.)
04.05. First aid measures / ingestion.	No special measures necessary.
04.06. Advice to doctor	-

**05. Fire-fighting measures**

05.01. Suitable extinguishing media	foam, dry powder, carbon dioxide., water spray jet
05.02. Extinguishing media that must not be used for safety reasons	Full water jet
05.03. Special exposure hazards arising from the substance or preparation itself, its combustion products or from resulting gases.	n.a.
05.04. Special protective equipment for firefighting	n.a.
05.05. Additional informations (chapter 5)	-

**06. Accidental release measures**

06.01. personal precautions.	n.a.
06.02. environmental precautions.	n.a.
06.03. methods for cleaning up/taking up.	Pick up mechanically.
06.04. Additional informations (chapter 6).	-

**07. Handling and storage**

07.01. Handling	
07.01.01. Hints on safe handling.	Provide good ventilation of working area (local exhaust ventilation if necessary)., Provide exhaust ventilation if dust is formed.
07.01.02. Hints for protection against fire and explosion.	n.a.

07.02. Storage	
07.02.01. Requirements for storage rooms and vessels.	Store product in closed containers.
07.02.02. Hints on storage assembly.	n.a.
07.02.03. Further information on storage conditions.	Keep container tightly closed and dry.
07.02.04. Storage category	-
07.02.05. Storage stability	-
07.02.06. Recommended storage temperature	n.a.

## 08. Exposure controls/personal protection

08.01. Additional hints on technical system design.	-
08.02. Ingredients with occupational exposure limits to be monitored	-

08.03. Personal protective equipment <input type="checkbox"/> Personal protective equipment <input type="checkbox"/> Persönliche Schutzausrüstung	
08.03.01. Respiratory protection	Dust mask
08.03.02. Hand protection	-
08.03.03. Eye protection	safety glasses
08.03.04. Skin protection	-
08.03.05. General protective and hygiene measures	Do not eat, drink or smoke during work time.

## 09. Physical and chemical properties

09.01. Appearance.	
09.01.01. Form	solid
09.01.02. Colour	beige
09.01.03. Odour	odourless

09.02. Safety data	-
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### Changes in physical state

Softening temperature	ca. 100	°C	
Flash point	n.b.	°C	ASTM-D 1929-68
Ignition temperature	> 450	°C	ASTM-D 1929-68
self ignition			
explosion limits	n.a.		
Upper explosion limit	n.a.		
Vapour pressure	n.a.	mbar	
Density	1,27	g/cm <sup>3</sup>	20 °C
Solubility in water	insoluble	g/l	
Soluble in	n.b.	g/l	
pH-Value	n.a.		
Viscosity	n.a.		

09.03. Other information ( chapter 9.)	-
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## 10. Stability and reactivity

10.01. Hazardous reactions	n.a.
10.02. Hazardous decomposition products	Carbon dioxide, Carbon monoxide, Hydrocarbons, Aldehydes
10.03. Thermal decomposition	> 400 °C
10.04. Additional informations (chapter 10)	-

**11. Toxicological information**

11.01. Acute toxicity	
11.01.01. Acute oral toxicity	n.a.
11.01.02. Acute dermal toxicity	n.a.
11.01.03. Acute inhalational toxicity	n.a.
11.02. Irritant/corrosive effects	
11.02.01. Irritant effect on skin	n.a.
11.02.02. Irritant effect on eyes	n.a.
11.03. Sensitization	n.a.
11.04. Effects after repeated or prolonged exposition (subacute, subchronic, cronic)	n.a.
11.08. Other information (chapter 11.)	n.a.
11.09. Experiences made in practice.	n.a.
11.10. General remarks.	-

**12. Ecological information**

12.01. Data on elimination ( persistence and degradability) :	
12.01.01. Physico-chemical eliminability	n.a.
12.01.02. Biodegradability	n.a.
12.02. Behaviour in environment compartments.	n.b.
12.03. Ecotoxic effect	
12.03.01. Fish toxicity	n.a.
12.03.02. Daphnia toxicity	n.a.
12.03.03. Algae toxicity	n.a.
12.03.04. Bacteria toxicity	n.a.
12.04. Further ecological information	According to experience, the material has no harmful effect on the environment.

**13. Disposal considerations**

13.01. Disposal considerations	
13.01.01. Disposal / product	For recycling, consult waste disposal centres.
13.01.02. Disposal / contaminated packagings.	Uncontaminated packaging may be reused.
13.02. Waste code no. / name of waste (for Germany only)	-

**14. Transport information**

14.01. Land transport ADR/RID	
14.01.01. Class	-
14.01.02. Number/letter	-
14.01.03. Hazard number (Kemler-number)	-
14.01.04. UN number	-
14.01.05. Technical name	-
14.01.06. Remarks	-
14.02. Inland waterways transport ADN/ADNR	
14.02.01. Class	-
14.02.02. Number/letter	-
14.02.03. Category	-
14.02.04. Technical name	-
14.02.05. Remarks	-
14.03. Marine transport IMDG/GGVSee	
14.03.01. Class	-
14.03.02. UN number	-
14.03.03. page	-

14.03.04. EmS	-
14.03.05. MFAG	-
14.03.06. MARINE POLLUTANT	-
14.03.07. Correct technical name	-
14.03.08. Remarks	-

14.04. Air transport ICAO/IATA	
14.04.01. Class	-
14.04.02. UN number	-
14.04.03. page	-
14.04.04. Correct technical name	-
14.04.05. Remarks	-

14.05. Other information (chapter 14.)	-
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## 15. Regulatory information

15.01. Labelling in accordance with GefStoffV/EC	The product does not require a hazard warning label in accordance with EC directives/German regulations on dangerous substances.
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15.02. Other regulations	
15.02.01. Restriction of occupation.	-
15.02.02. Decree for case of interference / remarks (for Germany only).	-
15.02.03. Classification according to VbF / remarks (for Germany only).	-
15.02.04. TA-Luft (Ger.)	-
15.02.05. Water Hazard Class (Ger.)	-
15.02.06. Other regulations, restrictions and prohibition regulations (for Germany only)	-

## 16. Other information (chapter 16.).

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(n.a. = Not applicable; n.b.= not determined)

This information is based on our present state of knowledge. It should not therefore be construed as guaranteeing specific properties of the products described or their suitability for a particular application.