

<b>Steiner</b> GmbH & Co. KG Im Jägersgrund 1+3 57339 Erndtebrück Phone: 0049 2753/6070 Fax: 0049 2753/607153	EU Safety Data Sheet <b>EUPP</b>	<b>Rev.-No.: 19</b> <b>January 2019</b> <b>Revised: 15.01.2019</b> <b>Page: 1 von 8</b>
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## EU Safety Data Sheet, according to Verordnung (EG) Nr. 1907/2006

<b>SECTION 1: Designation of the material and the company</b>	
<b>1.1 Product identifier</b>	
<b>Commercial Product Name:</b>	Steinerfilm P
<b>1.2 Relevant identified purposes of use and disadvised uses:</b>	
	No further informations available
<b>Destinated use:</b>	Capacitor Film
<b>Supplier:</b>	Steiner GmbH & CO.KG Im Jägersgrund 1+3 D-57339 Erndtebrück Phone: 0049 2753/607-0 Fax: 0049 02753/607-153
<b>Information department:</b>	Steiner GmbH&Co.KG E-Mail: rhspies@steinerfilm.de

<b>SECTION 2: Possible hazards</b>	
<b>2.1 Classification under regulation (EG) Nr. 1272/2008</b>	
	The product is not classified under CLP-regulation.
<b>2.2 Identification marking under regulation (EG) Nr. 1272/2008</b>	
<b>Hazard notes (pictogram)</b>	not applicable
<b>Signal word</b>	not applicable
<b>Hazard warnings</b>	not applicable
<b>2.3 other risks</b>	the product is compliant to RoHS regulation

<b>SECTION 3: Composition of the material</b>	
<b>Chemical characterisation:</b> Polypropylene, plain (not metallized), vacuum-metallised with Aluminum or Aluminum/Zinc. Acryl coated film contains cross-linked acrylic compounds. Some special products may contain traces of mineral oil, silicon oil or perfluorinated polyether oil.	
Further details: No hazardous contents.	
	CAS-No.
Polypropylene	9003-07-0
Aluminum	7429-90-5

<b>Steiner</b> GmbH & Co. KG Im Jägersgrund 1+3 57339 Erndtebrück Phone: 0049 2753/6070 Fax: 0049 2753/607153	EU Safety Data Sheet <b>EUPP</b>	<b>Rev.-No.: 19</b> <b>January 2019</b> <b>Revised: 15.01.2019</b> <b>Page: 2 von 8</b>
--	-------------------------------------	--

Zinc	7440-66-6
<b>Hazardous ingredients</b>	not applicable
<b>SVHC</b>	free of SVHC or < 0,1 %
<b>Possible hazards</b>	
No special hazards known.	
Perfluorinated polyethers containing material: Fluorine compounds evolved above 290 °C.	
<b>Regulation (EG)Nr. 648/2004 about detergents / identification of substances of content:</b>	
	not applicable
<b>additional notes:</b>	text of hazard statements, abbreviations etc., see section 16

<b>SECTION 4: First Aid Measures</b>	
<b>4.1 Description of First Aid Measures</b>	
General informations	no special measures necessary
After breathing:	not appl.
After skin contact:	no skin reactions / no irritations known
After eye contact:	not appl.
After swallowing:	see the physician
Information for the physician:	treat symptomatically
<b>4.2 Important acute and delayed occurring symptoms and effects:</b>	
	no relevant informations available
<b>4.3 Notes on medical emergency aid or special medical treatment:</b>	
	no relevant informations available
<b>Further information:</b> Unwinding and / or passage the film over roller may tend to generate electric charge on the film. In case of skin injuries due to melting material, see the physician.	

<b>SECTION 5: measures in case of fire</b>	
<b>5.1 Extinguishing media:</b>	
	<b>suitable extinguishing media:</b> Water, foam, powder, carbon dioxide (CO <sub>2</sub> ).
<b>5.2 Special hazards caused by the material itself, the products of combustion or resulting gases:</b>	

<p align="center"><b>Steiner</b> GmbH &amp; Co. KG Im Jägersgrund 1+3 57339 Erndtebrück Phone: 0049 2753/6070 Fax: 0049 2753/607153</p>	<p align="center">EU Safety Data Sheet <b>EUPP</b></p>	<p align="right"><b>Rev.-No.: 19</b> <b>January 2019</b> <b>Revised: 15.01.2019</b> <b>Page: 3 von 8</b></p>
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In case of fire carbon monoxide, carbon dioxide and gaseous decomposition products arise.  
If perfluorinated polyether containing material is affected, temperatures of above 290 °C lead to form toxic fumes containing fluorine compounds including C<sub>3</sub>F<sub>6</sub>, CF<sub>4</sub>, COF<sub>2</sub>, COF<sub>2</sub>. The latter two compounds hydrolyze in the presence of water to form HF, CF<sub>3</sub>COOH and HF, CO<sub>2</sub> respectively.

### 5.3 Notes for fire fighting

**Special protective arrangements:** Usual fire fighting protecting measures.

Keep personnel removed and upwind of fire. Wear self-contained breathing apparatus.

Wear full protective equipment.

**Further informations:**

In case of heating the material to temperatures of appr. 165 °C (softening point) and higher, the material starts melting and becomes viscous.

Do not breath in combustion gases.

### Section 6: Measures in case of unintentional releasing

**6.1 Measures of personal precaution:** not appl.

**6.2 Measures for environmental protection:** not appl.

**6.3 Process for cleaning:** Take up mechanically and dispose in compliance with the federal, state and local regulations or give to a recycling plant.

**6.4 References to other sections:**

No hazardous compounds are released.  
Informations for safe handling are given in section 7.  
Informations for personal protective equipment are given in section 8.  
Disposal informations, see section 13.

### Section 7. Handling and storing

**Indications for safe handling:** No special indications necessary.

**Indications for fire and explosion protection:** No special measures necessary.

**Requirements for warehouses and containers:** No special conditions required.

**Indications for storing together with other materials:** Avoid the contact with oxidizing agents.

<p align="center"><b>Steiner</b>          GmbH &amp; Co. KG          Im Jägersgrund 1+3          57339 Erndtebrück          Phone: 0049 2753/6070          Fax: 0049 2753/607153</p>	<p align="center">EU Safety Data Sheet  <b>EUPP</b></p>	<p align="center"><b>Rev.-No.: 19</b>  <b>January 2019</b>  <b>Revised: 15.01.2019</b>  <b>Page: 4 von 8</b></p>
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**Additional indications to the storing conditions:** Store at room temperature in the original packing.  
 Keep away moisture.

**Section 8: Limiting and monitoring of explosion/personal protective equipment**

**Additional indications for technical installations lay-out:** no further informations, see section 7.

**8.1 Components with working place related controlled limiting values:**  
 To serve as a basis for the creation valid lists are used.  
 Contains no substances with workplace limits.

**8.2 Limiting and monitoring of explosion/personal protective equipment**

- Breathing equipment:** No special protective equipment necessary.
- Hand safety guard:** No special protective equipment necessary.
- Eye protection:** No special protective equipment necessary.
- Body protection:** No special protective equipment necessary.
- Other protection measures:** No special protective equipment necessary.

**Section 9: Physical and chemical properties**

**9.1 Informations to basic physical and chemical properties**

**General informations:**

- Appearance:** solid
- Colour:** metallic, resp. clear
- Odour:** scentless
- Odour threshold:** not determined
- Change in Physical State:** softening point appr. 165 °C
- Density:** 0,91 [g/cm³] at 20 °C
- Vapour pressure:** not appl.
- Viscosity:** not appl.

<b>Steiner</b> GmbH & Co. KG Im Jägersgrund 1+3 57339 Erndtebrück Phone: 0049 2753/6070 Fax: 0049 2753/607153	EU Safety Data Sheet <b>EUPP</b>	<b>Rev.-No.: 19</b> <b>January 2019</b> <b>Revised: 15.01.2019</b> <b>Page: 5 von 8</b>
--	-------------------------------------	--

<b>Evaporation rate:</b>	not appl.
<b>Solubility in water:</b>	insoluble
<b>pH-Value:</b>	not appl.
<b>Flash point:</b>	not appl.
<b>Ignition temperature:</b>	appr. 330 °C
<b>Self-igniting:</b>	the material is not self-igniting
<b>Explosion limits:</b>	not appl.
<b>Thermal decomposition:</b>	> 220 °C (air)
<b>Solids content:</b>	100 %
<b>9.2 further informations</b>	not available

<b>Section 10: Stability and reactivity</b>	
<b>10.1 Reactivity:</b>	
<b>10.2 Chemical Reactivity:</b>	
<b>Thermal decomposition/ conditions to avoid:</b>	no decomposition when used as intended
<b>10.3 Possibility of dangerous reactions:</b>	In case of perfluorinated polyether containing material, temperatures of above 290 °C lead to form toxic fumes containing fluorine compounds including C <sub>3</sub> F <sub>6</sub> , CF <sub>4</sub> , COF <sub>2</sub> , COF <sub>2</sub> . The latter two compounds hydrolize in the presence of water to form HF, CF <sub>3</sub> COOH and HF, CO <sub>2</sub> respectively.
<b>10.4 Conditions to avoid:</b>	no further informations known.
<b>10.5 Intolerable materials:</b>	metallised film: water/acids/lye. plain film: no further informations known.
<b>10.6 Dangerous decomposition products:</b>	not known, when material handled as destinated

<b>Section 11: Toxicological informations</b>	
<b>11.1 Acute toxicity</b>	

<b>Steiner</b> GmbH & Co. KG Im Jägersgrund 1+3 57339 Erndtebrück Phone: 0049 2753/6070 Fax: 0049 2753/607153	EU Safety Data Sheet <b>EUPP</b>	<b>Rev.-No.: 19</b> <b>January 2019</b> <b>Revised: 15.01.2019</b> <b>Page: 6 von 8</b>
--	-------------------------------------	--

<b>Primary irritation:</b>	
<b>Etching/irritation to skin:</b>	on the basis of the available data the classification criteria are not fulfilled.
<b>Severe eye damage/eye irritation:</b>	on the basis of the available data the classification criteria are not fulfilled.
<b>Sensibilisation of respiratory tract/skin:</b>	on the basis of the available data the classification criteria are not fulfilled.
<b>CMR-effect (cancerogenic, mutagenic and toxicity to reproduction):</b>	on the basis of the available data the classification criteria are not fulfilled.
<b>Germ cell mutagenicity:</b>	on the basis of the available data the classification criteria are not fulfilled.
<b>Carcinogenicity:</b>	on the basis of the available data the classification criteria are not fulfilled.
<b>Reproductive toxicity:</b>	on the basis of the available data the classification criteria are not fulfilled.
<b>Specific target toxicity in case of single exposure:</b>	on the basis of the available data the classification criteria are not fulfilled.
<b>Specific target toxicity on repeated exposure:</b>	on the basis of the available data the classification criteria are not fulfilled.
<b>Aspiration hazard:</b>	on the basis of the available data the classification criteria are not fulfilled.

<b>Section 12: Environmental informations</b>	
<b>12.1 Toxicity:</b>	
<b>Aquatic toxicity:</b>	no further informations available.
<b>12.2 Persistence and degradability:</b>	The product is insoluble in water. It is mechanically separable in a clarification plant.
<b>12.3 Bioaccumulationpotential:</b>	no further informations available.
<b>12.4 Mobility in the ground:</b>	no further informations available.
<b>12.4 Further ökological notes:</b>	
<b>According to the recipe the material contains the following heavy metals and compounds named in the EG-regulations 2006/11/EG:</b>	Free of heavy metals (Pb, Cd, Hg, Cr VI)
<b>General notes:</b>	
<b>12.5 Results of PBT- and vPcB-evaluation:</b>	
<b>PBT:</b>	not applicable
<b>vPvB:</b>	not applicable
<b>12.6 Other adverse effects:</b>	no further informations available.

<b>Steiner</b> GmbH & Co. KG Im Jägersgrund 1+3 57339 Erndtebrück Phone: 0049 2753/6070 Fax: 0049 2753/607153	EU Safety Data Sheet <b>EUPP</b>	<b>Rev.-No.: 19</b> <b>January 2019</b> <b>Revised: 15.01.2019</b> <b>Page: 7 von 8</b>
--	-------------------------------------	--

<b>Further indications:</b>	Do not release the material into the environment.
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**Section 13: Informations for waste management**

**13.1 Waste treatment methods:**

**Recommendations:** Can be recycled or may be disposed in compliance with the federal, state and local regulations.

**Abfallverzeichnisverordnung (AVV)**

**Information to European Waste Key Number:**

**Unpurified packaging:**

**Recommendations:** Can be recycled or may be disposed in compliance with the federal, state and local regulations.

**Section 14: Transport informations**

**14.1 UN-number**

**ADN / ADR / IMDG / IATA:** not appl.

**14.2 Proper UN-shipping name:**

**ADR, AND, IMDG, IATA:** not appl.

**14.3 Transport Hazard Classes:**

**ADR, AND, IMDG, IATA**

**Class:** not appl.

**14.4 Packaging group:**

**ADR, IMDG, IATA** not appl.

**14.5 Danger to the environment:**

**Marine pollutant:** not appl.

**14.6 Special precautions for the user:** not appl.

**14.7 Transport in bulk according to Annex II to the MARPOL-Conventions and according to IBC-Code:** not appl.

**Transportation/Other Informations:** No dangerous good in the sense of transport regulations.

**UN "Model Regulation":** -

**Section 15: Legal regulations**

**15.1 Regulations to safety, health- and environmental- protection / specific legislations for the material or the mixture**

**Directive 2012/18 EU**

**Hazardous substances listed by name**

**Annex I** None of the substances contained.

**National rules:**

**Additional classification according to GefStoffV Anhang III:** not applicable

**Information to employment restrictions:** not applicable

**Incident ordinance:** not applicable

<b>Steiner</b> GmbH & Co. KG Im Jägersgrund 1+3 57339 Erndtebrück Phone: 0049 2753/6070 Fax: 0049 2753/607153	EU Safety Data Sheet <b>EUPP</b>	<b>Rev.-No.: 19</b> <b>January 2019</b> <b>Revised: 15.01.2019</b> <b>Page: 8 von 8</b>
--	-------------------------------------	--

<b>Water hazard class:</b>	Generally not water-endangering.
<b>15.2 Chemical safety assessment:</b>	A substance safety assessment was not carried out.

### **Section 16: More informations**

Die Angaben stützen sich auf den heutigen Stand unserer Kenntnisse, sie stellen jedoch keine Zusicherung von Produkteigenschaften dar und begründen kein vertragliches Rechtsverhältnis. Die jeweils geltenden Rechtsvorschriften sind zu beachten.  
 Dieses Produkt (diese Produktgruppe) ist kein Gefahrstoff in Sinne der aktuell gültigen GefStoffV. Dieses Sicherheitsdatenblatt unterliegt damit nicht dem automatischen Änderungsdienst nach GefStoffV § 6 Abs. 1.

Statements are made due to latest state of our knowledge. They shall describe our products with regards to safety requirements, thus do not mean a guarantee for certain characteristics. You are advised to make your own tests to determinate the safety and suitability of each such product or combination for your own purposes.  
 The applicable legal regulations must be observed.  
 This product (this product group) is not a hazardous substance in the sense of the currently valid GefStoffV.  
 This safety data sheet is therefore not subject to the automatic alteration service according to GefStoffV § 6 Abs. 1.

**Data sheet issuing department:** Steiner GmbH&Co.KG/Qualitätsmanagement/Umwelt  
 Ansprechpartner: Dr. R. Spies, Tel.: 046 2753 6070  
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**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 Harmonized 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)

Responsible for the safety data sheet:

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