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EU Safety Data Sheet, according to Verordnung (EG) Nr. 1907/2006

SECTION 1: Designation of the material and the company

1.1 Productidentificator

Commercial Product Name: Steinerfilm T

1.2 Relevant identified purposes

of use and disadvised uses:

No further informations available

Destinated use: Capacitor Film

Supplier: Steiner GmbH & CO.KG

Im Jägersgrund 1+3 D-57339 Erndtebrück Phone: 0049 2753/607-0 Fax: 0049 02753/607-153

Information department: Steiner GmbH&Co.KG

E-Mail: rhspies@steinerfilm.de

SECTION 2: Possible hazards

2.1 Classification under regulation (EG)

Nr. 1272/2008 The product is not classified under CLP-regulation.

2.2 Identification marking under regulation

(EG) Nr. 1272/2008 not applicable hazard notes (pictogram)
Signal word not applicable not applicable hazard warnings

2.3 other risks the product is compliant to RoHS regulation

SECTION 3: Composition of the material

Chemical characterisation: Polyethyleneterephthalate, 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.

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CAS-No.

Polyethyleneterephthalate 25038-59-9 Aluminum 7429-90-5 Zinc 7440-66-6

Hazardous incredients not applicable

SVHC free of SVHC or < 0,1 %

Possible hazards

No special hazards known.

Perfluorinated polyethers containing material: Fluorine compounds evolved above 290 °C.

Regulation (EG)Nr. 648/2004 about

detergents / identification of substances of content:not applicable

additional notes: text of hazard statements, abbreviations etc., see section 16

SECTION 4: First Aid Measures

4.1 Description of First Aid Measures

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

4.2 Important acute and delayed occurring symptoms and

effects: no relevant informations available

4.3 Notes on medical emergency aid

or special medical treatment: no relevant informations available

Further information: 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.

SECTION 5: measures in case of fire

5.1 Extinguishing media:

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suitable extinguishing media: Water, foam, powder, carbon dioxide (CO₂).

5.2 Special hazards caused by the material itsself, the products of combustion or resulting gases:

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 C₃F₆,CF, COF, COF₂. The latter two compounds hydrolize in the presence of water

to form HF, CF₃COOH and HF, CO₂ respectively.

5.3 Notes for fire figthting

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. 235 °C

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.

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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 marerials: Avoid the contact with oxidizing agents.

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 protectice equipment

Additional indications for technical installations lay-out: no further informations, see

section 7.

Contains no substances with

workplace limits.

8.1 Components with working place related controlled limiting values:

To serve as a basis for the creation valid lists

are used

8.2 Limiting and monitoring of explosion/personal protectice 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

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Change in Physical State: Melting point ca. 235 °C

Density: 1,39 [g/cm³] at 23 °C

Vapour pressure: not appl.

Viscosity: not appl.

Evaporation rate: not. appl.

Solubility in water: nearly insoluble

pH-Value: not appl.

Flash point: not appl.

Ignition temperature: >400 °C

Self-igniting: the material is not self-igniting

Explosion limits: not appl.

Thermal decomposition: >235 °C

Solids content: 100 %

9.2 further informations not available

Section 10: Stability and reactivity

10.1 Reactivity:

10.2 Chemical Reactivity: Thermal decomposition/

conditions to avoid: no decomposition when used as intended

10.3 Possibility of dangerous reactions:

In case of perfluorinated polyether containing material, temperatures of above 290 °C lead to form toxic fumes containing fluorine compounds including C₃F₆,CF,

COF, COF₂.

The latter two compounds hydrolize in the presence of water to form HF, CF₃COOH and HF, CO₂ respectively.

10.4 Conditions to avoid: no further informations known.

10.5 Intolerable materials: metallised film: water/acids/lye.

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plain film: no further informations known.

10.6 Dangerous decomposition products: not known, when material handled as destinated

Section 11: Toxicological informations

11.1 Acute toxicity

Primary irritation:

Etching/irritation to skin: on the basis of the available data the classification

criteria are not fulfilled.

Severe eye damage/eye irritation: on the basis of the available data the classification

criteria are not fulfilled.

Sensibilisation of respiratory tract/skin:

on the basis of the available data the classification

criteria are not fulfilled.

CMR-effect (cancerogenic, mutagenic and toxicity to reproduction):

on the basis of the available data the classification

criteria are not fulfilled.

Germ cell mutagenicity: on the basis of the available data the classification

criteria are not fulfilled.

Carcinogenicity: on the basis of the available data the classification

criteria are not fulfilled.

Reproductive toxicity: on the basis of the available data the classification

criteria are not fulfilled.

Specific target toxicity in case of single exposure:

on the basis of the available data the classification

criteria are not fulfilled.

Specific target toxicity on repeated exposure:

on the basis of the available data the classification

criteria are not fulfilled.

Aspiration hazard: on the basis of the available data the classification

criteria are not fulfilled.

Section 12: Environmental informations

12.1 Toxicity:

Aquatic tocicity: no further informations available.

12.2 Persistence and degradability: The product is insoluble in water. It is mechanically

separable in a clarification plant. no further informations available.

12.3 Bioaccumulationpotential: 12.4 Mobility in the ground:no further informations available.
no further informations available.

Steiner GmbH & Co. KG

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12.4 Further ökological notes:

According to the recipe the material contains the following heavy metals and compounds named in the EG-

regulations 2006/11/EG: Free of heavy metals (Pb, Cd, Hg, Cr VI)

General notes:

12.5 Results of PBT- and vPcB-evaluation:

PBT: not applicable vPvB: not applicable

12.6 Other adverse effects: no further informations available.

Further indications: Do not release the material into the environment.

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)

Informations 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

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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

Water hazard class: Generally not water-endangering.

15.2 Chemical safety assessment: 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.

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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)

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Responsible for the safety data sheet:

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