



Material Safety Data Sheet (MSDS)

Version: 1.0
Language: en
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1. Identification of substance

Polypropylene foil

4films skin

REACH registration number: -

Use of substance/preparation: Manufacture of paper and paper products

Company/undertaking identification

Manufacturer/Supplier:

4films GmbH . Thüringer Straße 14 . 37269 Eschwege

Telephone: +49 (0) 5651 7494-245

Further remarks:

4films GmbH

Information Telephone: +49 (0) 5651 7494-245

Information Telefax: +49 (0) 5651 7494-246

E-Mail (competent person): info@4-films.com

Website: www.4-films.com

Emergency telephone:

Telephone: +49 (0) 30 19240

Giftnotruf Berlin, Berliner Betrieb für Zentrale Gesundheitliche Aufgaben, Institut für Toxikologie

Dept. Responsible for information:

4films GmbH

2. Composition and Information on Ingredients

2.1. Product Name:

4films linea

2.2. Product Name:

Substance/Mixture: 100 %

UN Number: Not Registered

Chemical Name	Composition	Chemical Formula	Registr. No.	TSCA (CAS No.)
Polypropylene	Biaxially Oriented Propylene Film	(Polypropylene) _m	-	9003-07-0



3. Type of Hazardous

- 3.1. GHS-Type:** unlisted
- 3.2. Danger in physicochemic:** none
During the molding process, it is important to maintain the proper temperature, as there is the possibility of gas emissions.
- 3.3. Harm to health** none
There is no toxicity to the human body.
- 3.4. Harm to enviroment** none
If the film is left outside, there is the possibility that animals may swallow film and suffocate.
- 3.5. Label display type** unlisted

4. Hazards Identification

Classification of the substance or mixture:

The product is not classified, according to the Globally Harmonized System (GHS).

Label elements:

GHS label elements: Void
Hazard pictograms: Void
Signal word: Void
Hazard statements: Void

Classification system:

NFPA rating (scale 0 - 4)
Health: 0
Fire: 1
Reactivity: 0

HMIS ratings (scale 0 - 4)
Health: 0
Flammability: 1
Reactivity: 0

Other hazards:

Results of PBT and vPvB assessment
PBT: Not applicable
vPvB: Not applicable



5. First Aid Measures

- General Information:** Not Available under normal temperature.
You should caution since some parts are melt condition when print laminate process.
- 5.1 Eye Contact:** In case of contact with EVA, immediately flush eyes with plenty of water for at least 15 minutes. If eye irritation persists, seek medical advice.
- 5.2 Skin Contact:** Isolated cases of dermic symptoms have been associated with handling of coated/plastic films and have been attributed to very rare forms of allergy.
The use of protective gloves can usually eliminate such problems, but in extreme cases, the person concerned should be removed from the environment. Cleaning of the skin after its use is advisable.
- 5.3 Inhalation:** In the event of processing, precautions must be taken to avoid inhalation of the fumes generated, and the use of filter mask would be advisable.
- 5.4 Ingestion:** Coated BOPP/BOPP are non-toxic. However in the unlikely event of ingestion of BOPP Thermal film, flake or dust particles, it is recommended to seek medical advice.

6. Fire-Fighting Measures

Specific Hazards with Regard to Fire-Fighting Measures:

Firefighters should wear proper protective equipment. Coated BOPP/BOPP are not flammable material but it will burn if exposed to flame.

Extinguishing Media: Flame

7. Accidental Release Measures

- 7.1 Personal precautions, protective equipment and emergency procedures:**
Not required
- 7.2 Environmental precautions:**
No special measures required
- 7.3 Methods and material for containment and cleaning up:**
Pick up mechanically
- 7.4 Reference to other sections:**
See section for information on safe handling.
See section for information on personal protection equipment.
See section 13 for disposal information.



7.5 Protective Action Criteria for Chemicals

PAC-1		
9003-07-0	Polypropylene wax	5,2 mg/m ³
9002-88-4	Polyethylene low density	16 mg/m ³
112926-00-8	silicia gel	18 mg/m ³

PAC-2		
9003-07-0	Polypropylene wax	58 mg/m ³
9002-88-4	Polyethylene low density	170 mg/m ³
112926-00-8	silicia gel	200 mg/m ³

PAC-3		
9003-07-0	Polypropylene wax	350 mg/m ³
9002-88-4	Polyethylene low density	1,000 mg/m ³
112926-00-8	silicia gel	1,200 mg/m ³

8. Handling and Storage

8.1 Handling:

Pallet strapping is under tension and when cut, will recoil exposing sharp corners. Various materials are utilized in the packaging, over wrapping of rolls and pallets during transit and storage. In any event, care should be taken in the handling and disposal of these materials and appropriate health and safety guidelines should be observed.

8.2 Storage:

It is recommended that the rolls be stored below 25 °C at maximum 55% relative humidity.

9. Exposure Control / Personal Protection

9.1 Control Concentration:

-
PEL (OSHA): Not established
TVL (ACGIH): Not established

9.2 Engineering Measures:

Ventilate a plant since there are a possibility that dissolution gas occurs during print lamination and use processing equipment with local exhaust ventilation.



9.3 Personal Protective Equipment:

Wear long-sleeved clothes, gloves (made of cotton or leather) and be careful not to be burned during print lamination. Wear safety shoes, safety helmet and face protection as required.

10. Physical / Chemical Properties

Information on basic physical and chemical properties:

Appearance:	Form:	Foil
	Color:	Whitish
Odor	Odorless	
Odor threshold:	Not determined	
pH-value:	Not applicable	
Change in condition:	Melting point / range:	undetermined
	Boiling point / range:	> 220 °C (> 428 °F)
Flash point:	> 200 °C (> 392 °F)	
Flammability (solid, gaseous):	Not determined	
Ignition temperature:	> 250 °C (> 482 °F)	
Decomposition temperature:	Not determined	
Self-igniting:	Product is not selfigniting	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:	Lower:	Not determined
	Upper:	Not determined
Vapor pressure at 20 °C (68 °F):	0.1 hPa (0.1 mm Hg)	
Density at 20 °C (68 °F):	0.9 g/cm ³ (7.51 lbs/gal)	
Relative density:	Not determined	
Vapor density:	Not applicable	
Evaporation rate:	Not applicable	
Solubility in / Miscibility with Water:		Insoluble
Partition coefficient (n-octanol/water):		Not determined
Viscosity	dynamic:	Not applicable
	kinematic:	Not applicable
Solvent content:	Solid content:	100.0 %
Other information:	No further relevant information available.	
VOC - Volatile Organic Compounds:		
	European Union:	0.00 %
	Switzerland:	0.00 %
	USA	0.0 g/l / 0.00 lb/gl
	(less water and less exempts)	



11. Physical Hazard (Stability & Reactivity)

Flash point:	> 340°C (estimation)
Auto-ignition point:	> 400°C (estimation)
Explosion limit	(Upper): - (Lower): -
Flammability:	Yes
Spontaneous combustibility:	None
Oxidizibility:	None
Self reactivity:	None
Dust Explosion:	Possible in case of fluff. It is necessary to set equipments which remove static properly.
Stability, Reactivity:	Stable under normal temperature. Dissolved at 300°C and more, and produce hydrocarbon and its oxidized substances such as aldehyde, acid and alcohol.
Others:	-

12. Toxicological Information

12.1 Acute toxicity:

LD/LC50 values that are relevant for classification not applicable

12.3 Primary irritant effect:

on the skin:	No irritant effect
on the eye:	No irritating effect

12.4 Sensitization:

No sensitizing effects known.

12.5 Additional toxicological information:

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations (Directive 1999/45/EC of the European Parliament and of the Council) 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.

12.6 Carcinogenic categories

IARC (International Agency for Research on Cancer)

Polypropylene wax:	3
Polyethylene low density:	3
silica gel:	3

NTP (National Toxicology Program)

None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.



13. Ecological Information

Biodegradability:	None
Bioaccumulation:	None
Fish toxicity:	None
Others:	None

14. Transport Information

- 1 Not classified as Dangerous Goods for Land/Sea/Air Transport.
- 2 This information relates only to the specific materials designated and may not be valid for such material used in combination with any other materials or in any process.

15. Disposal Consideration

Uncleaned containers/packaging materials:

Recommendation: Dispose of packaging according to regulations on the disposal of packagings.

16. Other Information / References

16.1 4films GmbH
Thüringer Straße 14
37269 Eschwege
+49 (0) 5651 7494-245

16.2 Information:

The information contained in this data sheet represents the best information currently available to us. However, no warranty is made with respect to its completeness and we assure no liability resulting from its use. It is advised to make their own test to determine the safety and suitability of each such product for their own purpose.