



Material Safety Data Sheet (MSDS)

Version: 1.1
Language: en
Date: 27.07.2017

1. Identification of substance

Polyethylene foil

4films digital gloss, 4films digital gloss pro

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 digital gloss, 4films digital gloss pro

2.2. Product Name:

Substance/Mixture: Mixture

UN Number: Not Registered

Chemical Name	Composition	Chemical Formula	Registr. No.	TSCA (CAS No.)
Polypropylene	56 %	$(C_3H_6)_n$	(6)-10	9010-79-1
Polyethylene	44 %	$(C_2H_4)_m - (C_6H_{12})_n$	(6)-1594	25213-02-9



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

- Class Name of Hazardous Chemical for MSDS in Japan:** Not Applicable
- Physical & Chemical Hazards:** Not Available under normal Condition
- Adverse Human Health Effects:** Not Available under normal Condition
- Environmental Effects:** -

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 eyes, rinse thoroughly with plenty of water and seek medical advice.
- 5.2 Skin Contact:** In case of stimulus, rinse thoroughly with soap. In case of skin contact with melt polymer, cool with cold water. Never peel the polymer from your skin. In case of burn, seek medical advice.
- 5.3 Inhalation:** -
- 5.4 Ingestion:** Vomit immediately. In case of ingestion large quantity, show the physician.



6. Fire-Fighting Measures

Specific Hazards with Regard to Fire-Fighting Measures:

Firefighters should wear proper protective equipment.

Extinguishing Media:

water, carbon dioxide, foam, dry chemical

7. Accidental Release Measures

Place by sweeping up or another way. (Since you have a risk of powder explosion by ground film fluff, you should install the static eliminator.)

8. Handling and Storage

8.1 Handling:

- 1 You should use caution to prevent film rolls from falling down.
- 2 You should install the static eliminator on necessary place when you handle the film.
- 3 You should handle film rolls by general way to prevent falling down and so on.
- 4 If you handle heavy product, you should protect your hands and feet and to prevent lumbago, you should use proper equipments.
- 5 Keep away from wetting (for quality)

8.2 Storage:

The product shall be stored in a dry indoor area away from sources of heat or fire. Keep away from wetting (for quality). Basically use within 6 months.

9. Exposure Control / Personal Protection

9.1 Control Concentration:

PEL (OSHA):	-
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

Appearance and form:	Half-transparent film
Boiling point:	-
Vapor pressure:	-
Volatility:	None
Melting point:	105°C ~ 165°C
Solubility (in water):	Insoluble
Others:	-

11. Physical Hazard (Stability & Reactivity)

Flash point:	> 300 °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

Skin irritation:	None
Irritant properties:	None
Sensitizing effects:	None
Acute toxicity:	None
Sub-acute toxicity:	None
Chronic toxicity:	None
Carcinogenic effects:	None
Mutagenic effects:	None
Teratogenic effects:	None
Others (including the case that poisonous gas occur reacting with water):	-



13. Ecological Information

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

14. Transport Information

- 1 You should keep it from wet and rough handlings such as dropping, shock or dragging to prevent a package from breaking.
- 2 Keep the product away from any objects of fire or at high temperature.

15. Disposal Consideration

When it should be buried, you should entrust an approved disposer for industrial waster or a local public entity in accordance with the law for disposal and cleaning of waste material.

When it should be burned, you should use the incinerator according to the law for the air Pollution.

16. Toxicological Information

Warnings related to danger and safety: None

17. Other Information / References

17.1 4films GmbH
Thüringer Straße 14
37269 Eschwege
+49 (0) 5651 7494-245

17.2 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.