

Material Safety Data Sheet



Date of issue 23 June 2016

Version 1

1. Product and company identification

Product name : Teslin® Substrate
Code : 0193
Synonym : SP400, SP600, SP700, SP800, SP1000, SP1200, SP1400, SP1800
TS600, TS700, TS800, TS1000, TS1200, TS1400
HD700, 11HD, 14HD, Digital 1000, FG700, FG1000

Manufacturer / Supplier : PPG Industries, Inc.
One PPG Place
Pittsburgh, PA 15272

PPG Industries Chemicals BV
PO Box 181, 9930 - AD,
Delfzijl, The Netherlands

Emergency telephone number : (412) 434-4515 (U.S.)
+33 (0)3 27 14 97 00 (Eu)

Technical Phone Number : 1-800-437-8318 (Teslin)

2. Hazards identification

Emergency overview : CAUTION!
MAY BE HARMFUL IF INHALED OR SWALLOWED.
Avoid prolonged contact with eyes, skin and clothing. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.

Potential acute health effects

Inhalation : No known significant effects or critical hazards.
Ingestion : No known significant effects or critical hazards.
Skin : No known significant effects or critical hazards.
Eyes : No known significant effects or critical hazards.

Over-exposure signs/symptoms

Inhalation : No specific data.
Ingestion : No specific data.
Skin : No specific data.
Eyes : No specific data.

Medical conditions aggravated by over-exposure : None known.

This Material Safety Data Sheet has been prepared in accordance with Canada's Workplace Hazardous Materials Information System (WHMIS).

See toxicological information (Section 11)

3 . Composition/information on ingredients

<u>Name</u>	<u>CAS number</u>	<u>% (w/w)</u>
Teslin® Substrate	Not available.	100

These products are continuous, homogeneous materials containing polyolefins and inert fillers formed into a sheet composing a microporous void structure.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4 . First aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Material Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

Eye contact	: Not a likely route of exposure.
Skin contact	: No irritation would be expected on contact with skin.
Inhalation	: Not a likely route of exposure.
Ingestion	: Not a likely route of exposure.
Notes to physician	: Treat symptomatically.

5 . Fire-fighting measures

Flammability of the product	: No specific fire or explosion hazard.
<u>Extinguishing media</u>	
Suitable	: In case of fire, use water spray (fog), foam, dry chemical or CO ₂ .
Not suitable	: None known.
Special exposure hazards	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Hazardous combustion products	: When burned, the combustion products are similar to those organic compounds with equivalent components. Prediction of actual combustion decomposition products would be influenced by temperature, oxygen and/or other gases in the area.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6 . Accidental release measures

Personal precautions	: No special protection is required.
Environmental precautions	: None known.
Large spill	: Not applicable
Small spill	: Not applicable
Reference to other sections	: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

7 . Handling and storage

- Handling** : Put on appropriate personal protective equipment (see Section 8). Workers should wash hands and face before eating, drinking and smoking.
- Storage** : Store in accordance with local regulations. Store in a dry, cool and well-ventilated area.

8 . Exposure controls/personal protection

- Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.
- Engineering measures** : No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.
- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location.
- Personal protection**
- Eyes** : None.
- Hands** : None.
- Gloves** : None.
- Respiratory** : None.
- Skin** : None.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

9 . Physical and chemical properties

- Physical state** : Solid.
- Flash point** : Closed cup: Not applicable.
- Material supports combustion.** : Yes.
- Color** : White.
- Odor** : Odorless.
- pH** : Not available.
- Boiling/condensation point** : Not available.
- Melting/freezing point** : Not available.
- Specific gravity** : Not available.
- Vapor pressure** : Not available.
- Vapor density** : Not available.
- Volatility** : 0% (w/w)
- Evaporation rate** : Not available.
- Viscosity** : Not Applicable
- Solubility** : Insoluble
- Partition coefficient: n-octanol/water** : Not available.
- % Solid. (w/w)** : 100

10 . Stability and reactivity

Stability	: The product is stable.
Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products.
Materials to avoid	: None known.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.

11 . Toxicological information

Acute toxicity

Conclusion/Summary	: Various cytotoxicity tests have been conducted and the results showed that this product was nontoxic to mammalian cells in culture.
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Chronic toxicity

Conclusion/Summary	: No known significant effects or critical hazards.
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Irritation/Corrosion

Skin	: No known significant effects or critical hazards.
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Eyes	: No known significant effects or critical hazards.
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Respiratory	: No known significant effects or critical hazards.
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Sensitization

Skin	: No known significant effects or critical hazards.
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Respiratory	: No known significant effects or critical hazards.
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Carcinogenicity

Conclusion/Summary	: No known significant effects or critical hazards.
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12 . Ecological information

Environmental effects	: No known significant effects or critical hazards.
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Biodegradability

Conclusion/Summary	: This product would not be biodegradable and should be disposed of in a manner consistent with local regulations for polyolefin products.
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13 . Disposal considerations

Waste disposal	: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.
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Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

14. Transport information

	TDG	Mexico	IMDG
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-

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14. Transport information

Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.

Additional information

TDG : None identified.
Mexico : None identified.
IMDG : None identified.

Special precautions for user : -

15. Regulatory information

Canada inventory (DSL) : All components are listed or exempted.

Canada

WHMIS (Canada) : None identified.

Mexico

Classification

Flammability : 0 **Health** : 0 **Reactivity** : 0

16. Other information

Hazardous Material Information System (U.S.A.)

Health : 0 **Flammability** : 0 **Physical hazards** : 0

(*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)

Health : 0 **Flammability** : 0 **Instability** : 0

Other information : Teslin and the PPG logo are registered trademarks of PPG Industries Ohio, Inc.

Date of previous issue : No previous validation

Organization that prepared the MSDS : EHS

✔ Indicates information that has changed from previously issued version.

Disclaimer

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.