

MATERIAL SAFETY DATA SHEET**Product: Tygon® LP-1100**

Manufacturers Name: **Saint-Gobain
Performance Plastics**

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SECTION 1 - IDENTITY

- 1.1. Common Name (used on label).....: Tygon® LP-1100
 1.2. Chemical Name.....: N/A
 1.3. Chemical Family.....: Polyvinyl Chloride/Fluoropolymer/Compounded
Organic Polymer
 1.4. Formula.....: The specific chemical identity of the ingredients
is considered a trade secret.

SECTION 2 - HAZARDOUS INGREDIENTS

- | | |
|--|------------------------------|
| 2.1. Principal Hazardous Component(s)
(Chemical & Common Names) | Threshold Limit Value
N/A |
| 2.2. Principal Non-Hazardous Component(s)
(Chemical & Common Names) | Threshold Limit Value
N/A |

All additives are physically bound in the manufacturing process and are not expected to create any hazard when the product is used according to normal manufacturing and industrial hygiene practice and by following the guidelines on this sheet.

**SECTION 3 - PHYSICAL & CHEMICAL CHARACTERISTICS
(Fire & Explosion Data)**

- | | |
|--|--|
| 3.1. Boiling Point.....: | N/A |
| 3.2. Specific Gravity (H2O=1).....: | 1.26 |
| 3.3. Vapor Pressure.....: | 7x10 ⁻⁸ mm Hg, 20°C |
| 3.4. Percent Volatile by Volume.....: | N/A |
| 3.5. Vapor Density (Air=1).....: | N/A |
| 3.6. Evaporation Rate.....: | N/A |
| 3.7. Solubility in Water.....: | Negligible |
| 3.8. Melting Point.....: | N/A |
| 3.9. Appearance and Odor.....: | Transparent yellow; slight odor |
| 3.10. Flash Point.....: | >500°F (260°C) |
| 3.11. Flammable Limits in Air by
Volume.....: | Lower: N/A Upper: N/A |
| 3.12. Auto-Ignition Temperature.....: | N/A |
| 3.13. Extinguisher Media.....: | Water spray or Class A extinguishing
media. |
| 3.14. Special Fire Fighting Procedures....: | Fire fighters should wear full protective
clothing including a self-contained
breathing apparatus. |
| 3.15. Unusual Fire & Explosion Hazards.: | None Known |

N/E = Not Established, N/A = Not Applicable, N/R = Not Required, N/D = Not Determined

SECTION 4 - PHYSICAL HAZARDS

- | | | |
|-------------------------------------|---|-------------------|
| 4.1. Stability | Stable: X | Unstable: |
| Conditions to Avoid.....: | Keep away from strong oxidizers. | |
| 4.2. Incompatibility.....: | May react with strong oxidizing agents. | |
| 4.3. Hazardous Decomposition | | |
| Products.....: | Smoke, CO, and possibly hydrocarbons may evolve when temperature exceeds 260°C or when ignited. | |
| 4.4. Hazardous Polymerization.....: | May Occur: | Will Not Occur: X |
| Conditions to Avoid.....: | None Known | |

SECTION 5 - HEALTH HAZARDS

- | | |
|--------------------------------------|---|
| 5.1. Threshold Limit Value.....: | N/E |
| 5.2. Sign & Symptoms of Exposure..: | |
| 5.2.1. Acute Overexposure.....: | Toxicological testing has not been conducted with this material.
Route of Entry:
Eye Contact: No toxic effects are expected.
Skin Contact: No toxic effects are expected.
Inhalation: Not expected in industrial use.
Ingestion: Not expected in industrial use. |
| 5.2.2. Chronic Overexposure...: | None Known |
| 5.3. Medical Conditions Generally | |
| Aggravated by Exposure.....: | There are no data available which address medical conditions which are generally recognized as being aggravated by exposure to this product. |
| 5.4. Chemical Listed as Carcinogen | |
| or Potential Carcinogen.....: | National Toxicology Program:
Yes: No: X
I.A.R.C. Monographs:
Yes: No: X
OSHA:
Yes: No: X |
| 5.5. OSHA Permissible Exposure | |
| Limit.....: | N/A |
| 5.6. ACGIH Threshold Limit Value: | N/E |
| 5.7. Other Exposure Limit Used.....: | Unknown |
| 5.8. Emergency & First-Aid | |
| Procedures.....: | Inhalation: N/A
Eyes: N/A
Skin: N/A
Ingestion: N/A |

Form #N0123.1

SECTION 6 - SPECIAL PROTECTION INFORMATION

6.1. Respiratory Protection.....:	N/R unless temperature exceeds 260°C - See Section 4.
6.2. Ventilation.....:	Local Exhaust: N/R Mechanical-General: N/R Mechanical-Special: N/R Mechanical-Other: N/R
6.3. Protective Gloves.....:	N/R
6.4. Eye Protection.....:	N/R
6.5. Other Protective Clothing or Equipment.....:	Not Necessary

SECTION 7 - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

7.1. Precautions to be taken in Handling & Storage.....:	Handle in accordance with good industrial hygiene and safety practices.
7.2. Other Precautions.....:	N/A
7.3. Steps to be Taken in Case Material is Released or Spilled.....:	N/A
7.4. Waste Disposal Methods.....:	According to Local, State and Federal Regulations.

SECTION 8 - OTHER INFORMATION

8.1. Transportation Information.....:	DOT Shipping Name: N/A DOT Hazard Class: N/A DOT Label(s): N/A UN/NA Number: N/A Placards: None IATA: N/A IMO IMDG-Code: N/A European Class: RID (OCTI): N/A ADR (ECE): N/A RAR (IATA): N/A
8.2. The information and recommendations set forth herein are taken from sources believed to be accurate as of the date hereof; however, Saint-Gobain Performance Plastics Corporation makes no warranty with respect to the accuracy of the information or the suitability of the recommendations, and assumes no liability to any user thereof.	