

MATERIAL SAFETY DATA SHEET**Product: Tygon® R-3400**

Manufacturers

Name: **Saint-Gobain
Performance Plastics**
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SECTION 1 - IDENTITY

1.1 Common Name (used on label).....: Tygon® R-3400
1.2 Chemical Name.....: N/A
1.3 Chemical Family.....: Polyvinyl Chloride/Compounded organic polymer
1.4 Formula.....: The specific chemical identities of the ingredients are considered a trade secret.

SECTION 2 - HAZARDOUS INGREDIENTS

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

All additives are physically bound in the manufacturing process and are not expected to create any hazard when the product is used in accordance with 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).....: 1.31
3.3 Vapor Pressure.....: 7 X 10⁻⁸ 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.....: Black; Slight odor.
3.10 Flash Point.....: >500°F (260°C)

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

- 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
- 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

SECTION 4 - PHYSICAL HAZARDS

- 4.1 Stability Stable: X Unstable:
Conditions to Avoid.....: Temperatures above 300°F will slowly decompose
the tubing material resulting in the liberation of
HCl gas.
- 4.2 Incompatibility.....: None known.
- 4.3 Hazardous Decomposition
Products.....: When forced to burn, PVC compounds will mainly
contribute CO, CO₂, and HCl as gases.
- 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...:
1. Acute Overexposure.....: Toxicological testing has not been conducted
with this material.
Route of Entry:
Eye Contact: See inhalation
Skin Contact: See inhalation
Inhalation: At temperatures above 300°F,
fumes may be emitted that are irritating to
respiratory tract, eyes, or skin of sensitive
people
Ingestion: N/A
2. Chronic Overexposure.....: None Known

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- 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: If irritation occurs, remove affected Individual from area, refer to physician.
 Eyes: N/A
 Skin: N/A
 Ingestion: N/A

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

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SECTION 7 - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

- 7.1 Precautions to be taken in Handling & Storage.....: Store cool and dry.
- 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.

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