

# MATERIAL SAFETY DATA SHEET

DATE PREPARED: February 19, 2008

SUPERSEDES: July 6, 2004

## SECTION 1: CHEMICAL AND COMPANY IDENTIFICATION

PRODUCT NAME *Gylon Style 3565*

PRODUCT CODES 35650 & 35651

COMPANY NAME

**Garlock**  
SEALING TECHNOLOGIES®

an EnPro Industries company

ADDRESS 1666 DIVISION STREET  
PALMYRA, N.Y. 14522

PHONE NUMBER 315-597-4811 FAX 315-597-3196

### EMERGENCY PHONE

**315-597-4811**  
**MON. - FRI.**  
**9:00 AM – 4:00 PM**

## SECTION 2: HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

This product consists of inorganic filler and pigment dispersed and encapsulated in a Polytetrafluoroethylene (PTFE) matrix.

Adverse health effects would not be expected under normal recommended conditions of use, so long as prescribed safety precautions are practiced.

Heating product to temperatures in excess of 400°C can evolve toxic fluorine compounds.

### **PRODUCT CONSTITUENTS LISTED AS CARCINOGENS:**

Cobalt Aluminate Blue Spinel - IARC has classified cobalt and cobalt compounds as possibly carcinogenic to humans (Group 2B, Monograph 52).

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### SECTION 2: HAZARDS IDENTIFICATION (Continued from Page 1)

#### POTENTIAL HEALTH EFFECTS:

**Primary Routes of Entry:** Entry into the body is unlikely under normal conditions of use. Primary route of entry as a result of thermal or mechanical degradation is inhalation.

**Acute Effects Of Overexposure:** No effects due to exposure to the product are anticipated under normal recommended conditions of use.

If exposed to thermal decomposition products of the PTFE, temporary symptoms of polymer fume fever, a temporary flu-like illness with chills, fever, and sometimes cough, of approximately 24 hours duration may occur. There are some reports in literature of persistent pulmonary effects in individuals, especially smokers, who have repeated episodes of polymer fume fever. Because of complicating factors, such as mixed exposures and smoking history, these findings are uncertain. Small amounts of carbonyl fluoride and hydrogen fluoride may also be evolved when PTFE is overheated or burned.

Inhalation of low concentrations of hydrogen fluoride can initially include symptoms of choking, coughing and severe eye, nose and throat irritation. Possibly followed after a symptomless period of 1 to 2 days by fever, chills and difficulty breathing, cyanosis, and pulmonary edema. Acute or chronic over exposure to hydrogen fluoride can injure the liver and kidneys.

Inhalation, ingestion, or skin contact with carbonyl fluoride may initially include: skin irritation with discomfort or rash; eye corrosion with corneal or conjunctival ulceration; irritation of upper respiratory passages; or temporary lung irritation effects with cough, discomfort, difficulty breathing, or shortness of breath.

**Chronic Effects Of Overexposure:** There are no known chronic health effects connected with long term use or contact with this product.

**Conditions Aggravated by Exposure:** Individuals with preexisting diseases of the lungs may have increased susceptibility to the toxicity of excessive exposures from thermal decomposition products.

### SECTION 3: COMPOSITION AND INFORMATION ON HAZARDOUS INGREDIENTS

<u>COMPONENT NAME</u>	<u>CAS NUMBER</u>	<u>% WT. (Optional)</u>
Cobalt Aluminate Blue Spinel	1345-16-0	<1
Expanded Perlite	93763-70-3	
Polytetrafluoroethylene	9002-84-0	

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### SECTION 4: FIRST AID MEASURES

- Eyes:** Flush the eyes with water for at least 15 minutes. Seek medical attention if irritation develops or persists.
- Skin:** Wash contaminated skin thoroughly with soap or mild detergent. Get medical attention if irritation persists. Dermatitis should be treated symptomatically by a physician.
- Ingestion:** No specific intervention is indicated, as product is not likely to be hazardous by ingestion. Consult a physician if necessary.
- Inhalation:** No adverse effects are anticipated by breathing small amounts of dust during normal and intended use. If exposed to high dust levels, then remove to fresh air. Drink water and clear throat. Blow nose to clear dust.

### SECTION 5: FIRE FIGHTING MEASURES

- Flash Point:** 530 – 550°C (986-1022°F) **Method:** ASTM D1929
- Upper Flammable Limit (UFL):** Not Applicable
- Lower Flammable Limit (LFL):** Not Applicable
- Autoignition Temperature:** 520 –560°C (968-1040°F) **Method:** ASTM D1929
- Limiting Oxygen Index (LOI):** >95

#### Hazardous Products of Combustion

Composition of by-products from the result of a fire or thermal decomposition will vary depending on the specific conditions. Hazardous gases/vapors possibly evolved include smoke, hydrogen fluoride, carbonyl fluoride, perfluorocarbon olefins and carbon monoxide. There may be others unknown to us.

#### Fire fighting Instructions

As in any fire, use a self-contained breathing apparatus (SCBA) in the pressure-demand mode in conjunction with suitable gloves and clothing.

#### Extinguishing Media

Water, carbon dioxide, foam, or dry chemical. Be sure to use fire extinguisher appropriate to surrounding fire.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### Steps To Be Taken In Case Material Is Released or Spilled

No special actions are required for relatively large pieces or fragments. Prompt clean up is recommended. Personnel involved in the clean up should be wearing appropriate personal protective equipment as outlined in section 8. Material should be placed in DOT approved containers for disposal.

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### SECTION 7: HANDLING AND STORAGE

#### Handling

Dust generated from this material must be managed by wet wiping or vacuuming with HEPA filtration-equipped vacuum cleaners. Personnel involved with handling this product should be wearing appropriate personal protective equipment as outlined in section 8.

#### Work / Hygienic Practices

Personnel should avoid contaminating cigarettes or tobacco with particles of PFFE. Do not eat or smoke in areas of storage or processing.

#### Storage

Store in labeled closed containers and away from open flames & other sources of ignition. Do not store with or near incompatible materials cited in section 10.

### SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTIVE EQUIPMENT

#### Engineering Controls

**Ventilation:** If dust levels exceed the occupational exposure limits, then use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels to below recommended exposure limits. The need for local exhaust ventilation should be evaluated by a professional industrial hygienist. Local exhaust ventilation systems should be designed by a professional engineer. Maintain and test ventilation systems in accordance with OSHA regulations (29CFR 1910.94).

#### Personal Protective Equipment

**Eyes and Face:** As generally good practice, safety glasses with side shields are recommended when handling this product to prevent eye contact with particulate matter.

**Skin:** As generally good practice, use of impervious gloves is recommended.

**Respiratory:** Exposure levels that exceed PEL/TLV limits are unlikely. If exposures exceed the limits cited in this section by less than a factor of 10, use a NIOSH approved N95 respirator. If exposures exceed 10 times this limit, consult a professional industrial hygienist or your respiratory protective equipment supplier for selection of the proper equipment. The evaluation of the need for respiratory protection should be determined by a professional industrial hygienist.

#### **EXPOSURE GUIDELINES:**

##### Component

	<u>(8 Hr. TWA)</u> <b>OSHA PEL</b>	<u>(8 Hr. TWA)</u> <b>ACGIH TLV</b>
Cobalt Aluminate Blue Spinel	0.1 mg/m <sup>3</sup>	0.02 mg/m <sup>3</sup>
Polytetrafluoroethylene	None Established	None Established
Expanded Perlite	15 mg/m <sup>3</sup> (total dust) 5 mg/m <sup>3</sup> (respirable dust)	10 mg/m <sup>3</sup> (total dust) 3 mg/m <sup>3</sup> (respirable dust)

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### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Sheet or gasket with white outer layer and blue inner layer.	<b>Boiling Point:</b>	Not Applicable
<b>Odor:</b>	Odorless	<b>Freezing Point:</b>	Not Applicable
<b>VOC Content:</b>	Not Applicable	<b>Melting Point:</b>	Gel Point is approximately 327°C (620°F)
<b>pH:</b>	Not Applicable	<b>Solubility In Water:</b>	Negligible
<b>Vapor Pressure:</b>	Not Applicable	<b>Specific Gravity:</b>	Approximately 2.0
<b>Vapor Density:</b>	Not Applicable	<b>Reactivity with Water:</b>	Non Reactive
<b>Flash Point:</b>	530 – 550°C (986-1022°F)	<b>Method:</b>	ASTM D1929
<b>Upper Flammable Limit (UFL):</b>			Not Applicable
<b>Lower Flammable Limit (LFL):</b>			Not Applicable
<b>Autoignition Temperature:</b>	520 – 560°C (968-1040°F)	<b>Method:</b>	ASTM D1929
<b>Limiting Oxygen Index (LOI):</b>	>95		

### SECTION 10: STABILITY AND REACTIVITY

**Stability:** The material is stable.

**Hazardous Polymerization:** Hazardous polymerization will not occur.

**Conditions to avoid:** Direct flame will ignite product.

**Materials to avoid:** Incompatible or can react with finely divided metal powders (e.g. aluminum and magnesium), molten alkali metals and potent oxidizers like fluorine and related compounds like chlorine trifluoride. Contact with incompatibles can cause fire or explosion.

#### **Hazardous Decomposition Products**

Composition of by-products from the result of a fire or thermal decomposition will vary depending on the specific conditions. Hazardous gases/vapors possibly evolved include smoke, hydrogen fluoride, carbonyl fluoride, perfluorocarbon olefins and carbon monoxide. There may be others unknown to us.

### SECTION 11: TOXICOLOGICAL INFORMATION

Toxicity data is available on the individual components. Call 315/597-3080 for information.

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### **SECTION 12: ECOLOGICAL INFORMATION**

No ecological information is available on this product.

### **SECTION 13: DISPOSAL INFORMATION**

Dispose of in accordance with local, state, and federal regulations. Land fill is normally recommended

### **SECTION 14: TRANSPORTATION INFORMATION**

DOT - Not Regulated

### **SECTION 15: REGULATORY INFORMATION**

Dispose of in accordance with local, state, and federal regulations. Disposal in an EPA approved landfill is recommended.

This product contains a chemical or chemicals subject to the reporting requirements of section 313 of title III of the superfund amendments and reauthorization act of 1986 and 40 CFR Part 372:

- Cobalt Aluminate Blue Spinel (Cobalt Compound)

Warning, this product contains the following materials known to the state of California to cause cancer or reproductive effects:

- Crystalline Silica (Quartz)

### **SECTION 16: OTHER INFORMATION**

This MSDS is prepared to safeguard the health of workers and to comply with the requirements of 29CFR 1910.1200. Consult your employer before working with this material.

#### DISCLAIMER

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, storage, transportation and release and is not considered a warranty or quality specification. The responsibility for the compliance with existing law and regulations lies with the receiver of the product.

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