

## MATERIAL SAFETY DATA SHEET

The following form is intended to contain all information as required by the standards and regulatory requirements of the United States and may not meet regulatory requirements of other countries.

### STYLE 707L and 707T GRAPHITE FILAMENT PACKINGS

#### SECTION I: COMPANY INFORMATION

Manufactured by:  
New England Braiding Company, Inc.  
Address:  
610 Gold Street  
Manchester, New Hampshire 03103  
Revised by: L. Finnegan

Emergency Telephone  
603-669-1987  
Telephone # for Information  
603-669-1987  
Date Revised: 05/07/13  
Update Logo

#### SECTION II: HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

**Hazardous Components:** None anticipated under intended conditions of use.

**Identity:** Style 707-L is manufactured from graphite fiber yarn with a 3-7% by weight addition of polytetrafluoroethylene (PTFE) for ease in the braiding process. Style 707-T includes the addition of 15-20% PTFE dispersion.

#### SECTION III: PHYSICAL/CHEMICAL CHARACTERISTICS

**Boiling Point:** N/A

**Vapor Pressure (mm Hg.):** N/A

**Vapor Density (air=1):** N/A

**Solubility in Water:** Insoluble

**Appearance:** Style 707L and 707T black braided solid. Style 707T has a white impregnant between its yarn.

**Specific Gravity (H<sub>2</sub>O=1):** 0.9

**Melting Point:** N/A

**Evaporation. Rate:** N/A

**Odor:** No odor

#### SECTION IV: FIRE AND EXPLOSION HAZARD DATA

**Flash Point (Open Cup):** N/A

**Flammable Limits:** N/A

**Extinguishing Media:** CO<sub>2</sub>, dry chemical, foam, Halon, water

**Special Fire-Fighting Procedures:** Use self-contained breathing apparatus (SCBA) to protect against decomposition gasses that may evolve from impurities and binders.

**Unusual Fire & Explosion Hazards:** NONE In fire graphite can support combustion if oxygen is present and the temperature is high enough to initiate combustion, auto ignite above 900°F (428°). Material does not support combustion but thermal decomposition of TFE begins above 550°F (288°C) and may produce toxic gases including but not limited to carbon dioxide, nitrogen oxides and aliphatic hydrocarbons.

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### **SECTION V: REACTIVITY DATA**

**Stability:** Stable at normal temperature and storage conditions

**Conditions to Avoid:** Do not incinerate.

Polymer—Overheating (>300°C or 572°F) may create thermal decomposition products that could result in irritation of the mucous membranes, eyes, skin, respiratory tract, or polymer fume fever. Polymer fume fever is a temporary flu-like illness with fever and chills of approximately 24-48 hours duration.

**Hazardous Decomposition or Byproducts:** Trace amounts only of hydrogen fluoride gas and perfluorocarbon olefins may evolve over 752°F (400°C).

**Hazardous Polymerization:** Will not occur

### **SECTION VI: HEALTH HAZARD DATA**

**Health Hazards (Acute & Chronic):** NONE - materials are essentially inert under normal conditions, however, smoking after handling may create conditions for "polymer fume fever". See Section V. Always wash hands after smoking.

**Medical conditions generally aggravated by exposure:** None known

**Emergency & First Aid Procedures:** Treat as required for symptoms of over exposure by trained professional medical personnel.

### **SECTION VII: PRECAUTIONS FOR SAFE HANDLING**

**Steps to be Taken in Case Material is Released or Spilled:** N/A

**Waste Disposal Method:** Do **NOT** incinerate. Not biodegradable. Dispose of used material in accordance with Federal, State, and Local regulation. Check service material was used in to determine if used material may have absorbed hazardous materials from service and thus require special handling.

**Precautions to be Taken in Handling & Storing:** Wash hands after handling, especially prior to smoking.

**Other Precautions:** Do **NOT** smoke or handle smoking materials while handling this product. Wash hands first. Thermal decomposition of polymer on smoking materials may cause "Polymer Fume Fever". See Section V above.

### **SECTION VIII: CONTROL MEASURES**

**Eye Protection:** Wear safety glasses or coverall goggles when cutting or mechanically working this product, or when airborne dust may be present.

**Respiratory Protection:** Respiratory protection is not normally required under anticipated working conditions of use. Wear NIOSH/MISHA approved respiratory protection.

**In case of fire,** use self-contained breathing apparatus to prevent exposure to products of thermal breakdown. Wear NIOSH/MISHA approved respiratory protection that complies with OSHA Standard 29 CFR 1910.134

**Ventilation:** Local exhaust should be filtered and conditioned to eliminate respirable fibers, dust and fumes.

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**Other Protective Clothing or Equipment:** As required for personnel during installation or removal by local plant practice. Consider personnel exposure to service fluid that may be absorbed by this material during use.

**Work/Hygienic Practices:** **DO NOT** smoke when handling. Wash hands after handling.

**SECTION IX: FIRST AID MEASURES**

**Eye Contact:** Flush eyes with plenty of water. Seek medical attention.

**Ingestion:** Not a plausible route.

**Inhalation:** If large amounts of fumes, dust or fibers are inhaled remove to fresh air. If persistent cough or other systems develop, seek medical attention.

**THE INTENDED USE OF THIS PRODUCT MEETS THE DEFINITION OF AN ARTICLE UNDER 29 CFR 1910.1200.**

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**The above data describes exclusively the safety requirements of the product and is based on our current base of knowledge. It does not relate to use in combination with other materials or in any process. No guarantee is expressed or implied.**