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## MATERIAL SAFETY DATA SHEET

### SECTION 1

#### IDENTITY

Tombo #9082 Nafion Seal Tape (PTFE Thread Seal Tape)  
 Tombo #9082 Nafion Seal Tape (PTFE Thread Seal Tape) Pink Tape

#### DESCRIPTION

Nafion Seal Tape is a polytetrafluoroethylene unsintered tape.

### SECTION 2 - Hazardous Ingredients/Identity Information

#### INGREDIENT

INGREDIENT	CAS No	Wt%	TLV	PEL
<b>Polytetrafluoroethylene (PTFE)</b>	9002-84-0	90-100	not estab. <sup>(a)</sup>	not estab.
(a) Thermal decomposition of the fluorocarbon chain in air leads to the formation of oxidized products containing carbon, fluorine and oxygen. Because these products decompose in part by hydrolysis in alkaline solution, they can be quantitatively provided an index of exposure. No TLVs are recommended at this time, but air concentration should be controlled as low possible.				

#### Hazard Data Source: ACGIH Threshold Limit Values for 2011

### SECTION 3 – Physical/Chemical Characteristics

<b>Boiling Point:</b>	N/A	<b>ODOR:</b>	No odor
<b>Melting Point(° C):</b>	322-332	<b>Appearance:</b>	Tape, White
<b>Solubility in Water:</b>	Insoluble	<b>Density (γ/χμ<sup>3</sup>):</b>	4 types available (0.4,0.7,0.8,1.2)
<b>Service Temperature(C°):</b>	Max. 260		

### SECTION 4 – Fire and Explosion Hazard Data

<b>Flash Point (Method used):</b>	non-flammable (Complies with U.L. 94V-0)
<b>Explosion Point (Method used):</b>	None
<b>Extinguishing Media:</b>	Use that which is appropriate for the surrounding fire.

**Special Fire and Fighting Procedures:** **Persons** exposed to thermal decomposition products of this material Should wear self-contained breathing apparatus, full protective equipment, and also gloves made of chloroprene rubber.

**Unusual Fire and Explosion Hazards:** Fluorocarbon polymer is non-flammable in air and will not propagate Flame. However under high temperature they can yield toxic particles, Fumes, and gases. In case of fire, escape to the windward.

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## **SECTION 5 – Reactivity Data**

**Stability:** Stable under normal conditions, but it may react with Molten alkali such as metal sodium, and flourine at high temperature and pressure.

**Hazardous Decomposition or By-products:** Do not use over service temperature (260°C). In case product is used above 260°C ventilate well and do not inhale thermodegradation products.

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## **SECTION 6 – Health Hazard Data**

### **Hazard Information:**

Unheated fluorocarbon polymer product is inert, and there are no known instances of health hazard, when handling the unheated product. When heated at high temperature, it will thermally degrade, decompose, and produce toxic fumes. Inhalation of such fumes will cause “Polymer Fume Fever”, which has symptoms very similar to influenza and can include headache, cough, fever, chills, chest discomfort. The symptoms do not occur until several hours after exposure and may pass within 36 to 48 hours, even in absence of treatment.

### **Carcinogenicity (Polytetrafluoroethylene):**

**IARC Group 3**

**3 – Not classifiable as its carcinogenicity to humans**

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## **SECTION 7 – Precaution for Safe Handling and Use**

### **Step to be taken in handling this product:**

Keep away from heat and sources of ignition.

### **Precaution on waste disposal:**

Do not incinerate. Obey local rules, laws, and regulations.

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## **SECTION 8 – Control Measures**

For normal use, protective gears, such as masks, respirators, etc. are not specially needed. When used above 260°C, toxic fumes will be produced from thermal degradation and/or decomposition of fluocarbone polymers and therefore proper ventilation equipment shall be installed and used.

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## **SECTION 9 – Special Precautions**

Do not use for body transplantation and a contact with living body tissues and body fluids.

The information provided on this material Safety Data Sheet is based on ACGIH Threshold Limit Values 2004 as of the date of issuance of the sheets. The purchaser shall follow this up-to-date rules and also your local rules, laws, regulations, etc. Obey up-to-date local rules, laws, regulations. Etc.

Environmental Control Section/Technical Division

Leon Hargreaves III

General Manger

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