1. Basic Information:

Manufacturer: William H. Harvey Company
Address: 4334 South 67th Street
City, ST Zip: Omaha, NE 68117-1019
Emergency Contact: CHEMTREC
Emergency Telephone Number: (800)424-9300
Contact: Information Telephone Number
Information Telephone Number: (800)228-9681

Last Update: 11/06/2008
Expiration Date:

Chemical State: □ Liquid □ Gas □ Solid
Chemical Type: □ Pure □ Mixture

2. Ingredients:

□ Trade Secret

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3. Hazardous Identification:

Hazard Category:
■ Acute □ Chronic □ Fire □ Pressure □ Reactive

Hazardous Identification Information:

EMERGENCY OVERVIEW:

Non-hazardous under recommended conditions of handling.

CAUTION! The fumes produced when heated at high temperatures are toxic. Exposure to thermodegradation products may cause influenza-like symptoms.

4. First Aid Measures:

Route(s) of Entry:

None identified.

Health Hazards (Acute and Chronic):
**Product Name:** PTFE THREAD SEAL TAPE

**MSDS No.: 017500**

Unheated Polytetrafluoroethylene product is inert, and there are no known instances of health hazard from handling unheated Polytetrafluoroethylene product. When heated at high temperatures, it will thermally degrade and 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, etc.

**Signs and Symptoms:**

Similar to influenza and can include headache, cough, fever, chills, etc. The symptoms do not occur until several hours after exposure and may pass within 36 to 48 hours, even in absence of treatment.

**Medical Conditions Generally Aggravated by Exposure:**

NI

**Emergency and First Aid Procedures:**

**EMERGENCY FIRST AID CALL:** 1-303-623-5716 COLLECT

**INHALATION:**
Not likely to be inhaled due to physical form. For treatment of fume inhalation irritation, leave contaminated area and breathe fresh air. If coughing, difficult breathing or any other symptoms develop get medical attention.

**INGESTION:**
Not a likely route of exposure.

**SKIN CONTACT:**
If contact with molten product occur, treat as for thermal burn. Do not try to peel molten polymer from the skin. Get medical attention promptly.

**EYE CONTACT:**
If contact with molten product occurs, remove contact lenses at once. Immediately flush eyes with large quantities of water for at least 15 minutes. Get medical attention.

**NOTE TO PHYSICIAN:**
Treat symptomatically.

**Other Health Warnings:**

NI

**5. Fire Fighting Measures:**

**Flash Point:** Non-flammable  **Lower Explosive Limit:** NA  **Upper Explosive Limit:** NA

**F.P. Method:**

**Fire Extinguishing Media:** Use that which is appropriate for the surrounding fire.

**Special Fire Fighting Procedures:**

Persons exposed to thermal decomposition product of this material should wear self-contained breathing apparatus, full protective equipment, and also gloves made of chloroprene rubber.

**Unusual Fire and Explosion:**

Fluorocarbon polymers are 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 direction.

**6. Accidental Release Measures:**

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

Not applicable.

When disposing of product, obey all local rules, laws, regulations, etc.
**MSDS - Material Safety Data Sheet**

**Product Name:** PTFE THREAD SEAL TAPE

**MSDS No.: 017500**

### 7. Handling and Storage:

**Precautions to be Taken:**

**HANDLING:**
Do not use over service temperature (500º F). In case product is used over 500º F., ventilate well and do not inhale thermodegradation products.

**STORAGE:**
Store in a cool, dry area away from heat and sources of ignition.

**Other Precautions:**

- NI

### 8. Exposure Controls/Personal Protection:

**Ventilation Requirements:**

**AIRBORNE EXPOSURE CONTROLS:**
See Section 2, COMPOSITION /INFORMATION ON INGREDIENTS.

**ENGINEERING CONTROLS:**
Not required under recommended conditions of handling. When used above 500º F., toxic fumes will be produced from thermal degradation and /or decomposition of fluorocarbon polymers and therefore proper ventilation equipment shall be installed and used.

**Personal Protective Equipment:**

**EYE/FACE PROTECTION:**
Not required under recommended conditions of handling.

**SKIN PROTECTION:**
Not required under recommended conditions of handling.

**RESPIRATORY PROTECTION:**
Not required under recommended conditions of handling.

### 9. Physical and Chemical Properties:

**Boiling Point:** NA

**Evaporation Rate (Butyl Acetate = 1):** NA

**Specific Gravity (H2O = 1):** NA

**Solubility In Water:** Insoluble

**Vapor Pressure (mm Hg.):** NA

**Vapor Density (AIR = 1):** NA

**Appearance and Odor:** Solid, tape shape, white or pink or yellow, no odor.

**Specific Gravity:** .035 - 1.2  (H2O = 1.0)

**VOC (Volatile Organic Compound) Content:** None

**SERVICE AND WORKING TEMPERATURE:** up to 500º F.

### 10. Stability and Reactivity:

**Stability:**
Stable and non-hazardous under recommended conditions of handling.

**Incompatibility (Materials to Avoid):**
May react with molten alkali such as sodium metal, and fluorine gas at high temperature and pressure.

**Decomposition/By Products:**
Above 500º F. this product thermally degrades at a rate dependent on the temperature, releasing toxic materials.
11. Toxicological Information:

ACUTE AND CHRONIC HEALTH HAZARD:
No acute and chronic hazard under recommended conditions of storage and handling. Neither acute nor chronic effects are likely.

INHALATION:
Unheated Polytetrafluoroethylene product is inert, and there are no known instances of health hazard from handling unheated Polytetrafluoroethylene product. When heated at high temperatures, it will thermally degrade and 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, etc..

EYE CONTACT:
Not hazardous under recommended condition of handling

SKIN CONTACT:
Not hazardous under recommended condition of handling. Molten material can cause severe burns.

INGESTION:
Not identified.

SPECIAL HAZARD INFORMATION:
Unheated Polytetrafluoroethylene product is inert, and there are no known instances of health hazard from handling unheated Polytetrafluoroethylene product. When heated at high temperatures, it will thermally degrade and 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, etc.. 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 is classified as IARC GROUP 3 (Not classifiable as its carcinogenicity to humans).

12. Ecological Information:

Ecological testing has not been conducted on this product.

13. Disposal Considerations:

Do not incinerate! Comply with all federal, state and local regulations.

14. Transport Information:

TRANSPORATION INFORMATION:
Follow all regulations in your country.

U.S. DOT PROPER SHIPPING NAME: N/A
DOT LABEL: N/A
DOT NUMBER: N/A
UN NUMBER: N/A
IMCO CLASS: N/A
DOT HAZARD CLASSIFICATION: N/A

15. Regulatory Information:

No data available.

End of Regulatory Information.
**PART NUMBERS COVERED UNDER THIS MATERIAL SAFETY DATA SHEET:**

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MSDS - Material Safety Data Sheet

Product Name: PTFE THREAD SEAL TAPE

MSDS No.: 017500

ABBREVIATIONS:

~ = Approximately
< = Less Than
> = Greater Than
ACGIH = American Conference of Governmental Industrial Hygienists
AIHA = American Industrial Hygiene Association
C = Degrees Celsius
Deg = Degrees
EPA = Environmental Protection Agency
F = Degrees Fahrenheit
HMIS = Hazardous Materials Information System
IARC = International Agency for Research on Cancer
NA = Not Applicable
NDA = No Data Available
NE = Not Established
NFPA = National Fire Protection Association
NI = Not Indicated
NIOSH = National Institute of Occupational Safety and Health
NTP = National Toxicology Program
OSHA = Occupational Safety and Health Administration

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