

U.S. DEPARTMENT OF LABOR
OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
<b>MATERIAL SAFETY DATA SHEET</b>
REQUIRED UNDER USDL SAFETY AND HEALTH REGULATION FOR SHIP REPAIRING, SHIPBUILDING, AND SHIPBREAKING (29 CFR 1915, 1916, 1917)

Identity (As used on label and list): **PTFE Thread Seal Tape**

*Section I*

<b>Manufacturer's Name: Ratermann Manufacturing Inc.</b>	<b>Emergency Telephone Number</b> 800-537-7139
<b>Address : 601 Pinnacle Place Livermore CA 94550</b>	<b>Telephone Number for Information</b> 925-606-2949
	<b>Date Prepared:</b> 8/5/02
	<b>Signature of Preparer (Optional)</b>

*Section II- Hazardous Ingredients/ Identity Information*

<b>Hazardous Components</b> (Specific Chemical Identity: Common Name(s)) OSHA PEL ACGIH TLV Other Limits		
Chemical Name	%	CAS No.
Polytetrafluoroethylene	100	9002-84-0
PTFE Tape, as such is not a hazardous material. It is processed solid polymer, temperature range -450F to +500F		

*Section III- Physical / Chemical Characteristics*

<b>Boiling Point</b>	N/A	<b>Specific Gravity (H<sub>2</sub>O=1)</b>	2.1 to 2.2
<b>Vapor Pressure (mm Hg)</b>	N/A	<b>Melting Point</b>	341C (642F)
<b>Vapor Density (Air=1)</b>	N/A	<b>Reactivity in Water</b>	None
<b>Solubility in Water</b>	Insoluble	<b>Appearance and Odor</b>	White, Odorless

*Section IV- Fire and Explosion Hazard Data*

<b>Flash Point</b> (Method Used): N/A	<b>Flammable Limits:</b> N/A	LEL	UEL
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**Extinguishing Media:** N/A Use media suitability for surrounding fire

**Special Fire Fighting Procedures:**

Self contained breathing apparatus with full facepiece & protective clothing if involved with other materials

**Unusual Fire and Explosion Hazards:** Product will emit toxic fumes at high temperatures

Above 800F: Tetrafluoroethylene; Above 825F: Hexafluoroethylene; Above 885F: Perfluoroisobutylene; Above 930F: Carbonyl Fluoride

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**Section V - Reactivity Data**

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<b>Stability</b>	Unstable	<b>Conditions to Avoid:</b> Heating above 750F for prolonged periods of time
	Stable <b>X</b>	

**Incompatibility** (Materials to Avoid): Molten Alkali Metals: Interhalogen Compounds

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**Hazardous Decomposition of By-Products** :See section 4

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<b>Hazardous</b>	May Occur	<b>Conditions to Avoid:</b> N/A
<b>Polymerization</b>	Will Not Occur <b>X</b>	

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**Section VI - Health Hazard Data**

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**Route(s) of Entry:**

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Inhalation: No toxic effect from dust

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Eyes: Mechanical irritation

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Skin: Non-irritating and Non-absorbing

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Ingestion: PTFE has shown to be inert when ingested by rats

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**Acute:** Flu like transient sickness

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**Chronic:** Could be fatal

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**Signs and symptoms of Exposure:** Flu like fever

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**Medical conditions generally aggravated by exposure:** Respiratory inflammation

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**Emergency and first aid procedures:** Move to fresh air, refer to physician

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**Section VII- Precautions for Safe Handling and Use**

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**Steps to Be Taken in Case Material is Released or Spilled**

Sweep up to prevent slippage on tape

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**Waste Disposal Method**

Confirming to all application regulations

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**Precautions to Be Taken in Handling and Storing**

No unusual precautions

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**Other Precautions**

None

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**Section VIII- Control Measures**

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**Respiratory Protection** (Specify Type): Not Needed

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Ventilation	<b>Local Exhaust:</b> not needed	<b>Special:</b> N/A
	<b>Mechanical (General):</b> not needed	<b>Other:</b> not needed

**Protective Gloves:** Not needed      **Eye Protection:** not needed

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**Other Protective Clothing or Equipment:** Not needed

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**Work/Hygenic Practices:** No smoking while handling material

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