

# MATERIAL SAFETY DATA SHEET

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

### MANUFACTURER'S NAME AND ADDRESS

Teadit Indústria e Comércio Ltda  
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**PRODUCT NAME:** EXPANDED PTFE AND BREAK-IN OIL BRAIDED PACKING

**PRODUCT STYLE:** 2006FDA

Date Prepared: May 27, 2010

## SECTION 2: HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

May cause eye and skin irritation. Inhalation of dust may cause eye and respiratory irritation. Prolonged inhalation of dust may cause lung damage. Minimize exposure to airborne dust.

### Potential Health Effects:

**Eye Contact:** May cause eye irritation. Dust may cause mechanical, abrasion injury.

**Skin Contact:** May cause mild irritation. Prolonged contact may dry and defat the skin leading to dermatitis.

**Ingestion:** No toxic effects are expected. Ingestion of large amounts may cause gastrointestinal irritation.

**Inhalation:** Inhalation of dust may cause throat and upper respiratory tract irritation.

**Chronic Hazards:** Prolonged inhalation of dust may cause a fibrotic lung disease (pneumoconiosis). Symptoms include cough, shortness of breath, wheezing, non-specific chest illness and reduced pulmonary function. This disease is exacerbated by smoking. Individuals with pneumoconiosis are predisposed to develop tuberculosis.

**Medical Conditions Aggravated By Exposure:** Pre-existing lung conditions may be aggravated by exposure to dust.

**Carcinogen:** None of the components of this product are listed as a carcinogen by IARC, NTP or OSHA.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CAS#	Component	Percentage
9002-84-0	Polytetrafluoroethylene Resin	55 - 70%
7727-43-7	Barium Sulfate	20 - 30%
8042-47-5	Mineral Oil	10 - 15%

## SECTION 4: FIRST AID MEASURES

**Eyes:** Flush with plenty of water, especially under eyelids. Get medical attention if irritation persists.

**Skin:** Wash with soap and water. Get medical attention if irritation persists.

**Inhalation:** If irritation or other symptoms occur, remove to fresh air. Get medical attention if irritation or symptoms persist.

**Ingestion:** No adverse effects are expected. Consult a physician if large amounts are swallowed.

## SECTION 5: FIREFIGHTING MEASURES

**Flash Point:** Not applicable

**Flammability Limits:** Not applicable

**Extinguishing Media:** Use any extinguishing media that is appropriate for the surrounding fire. This product is an ordinary combustible. Water is most effective.

**Special Fire Fighting Procedures:** Fight as any normal fire using SCBA and full protective clothing where exposed to smoke.

**Unusual Fire and Explosion Hazards:** Solid product will burn slowly under fire conditions. Fine dusts that may be generated during processing may present a greater fire and explosion hazard.

**Hazardous Combustion Products:** Thermal decomposition can yield carbon monoxide, carbon dioxide, hydrogen fluoride, oxides of nitrogen, perfluoroisobutylene, hexafluoropropylene, carbonyl fluoride, tetrafluoroethylene, and aliphatic hydrocarbons.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

Pick-up solid packing material for reuse or disposal. No special precautions required. For dust that may be generated, collect with methods such as vacuuming or wet wiping, that minimizes the generation of airborne dust. Only vacuum using a HEPA filter equipped vacuum cleaner.

## SECTION 7: HANDLING AND STORAGE

**Handling:** No special handling required.

**Storage:** No special storage required.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Limits

Component	Exposure Limit/Source
Polytetrafluoroethylene Resin	None Established
Barium Sulfate	5 mg/m <sup>3</sup> (respirable, 15 mg/ m <sup>3</sup> (total dust) TWA OSHA PEL 10 mg/m <sup>3</sup> TWA ACGIH TLV
Mineral Oil	5 mg/m <sup>3</sup> TWA OSHA PEL 5 mg/m <sup>3</sup> TWA ACGIH TLV

### **Definitions:**

PEL means OSHA Permissible Exposure Limit.

TLV means American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value.

TWA means time-weighted average.

STEL means short-term exposure limit.

**Ventilation:** No special ventilation required for handling solid packing material. Local exhaust or process enclosures may be needed if dust is generated in processing.

**Respiratory Protection:** None required for handling solid packing material. If processing generates dust and engineering controls are not available to control the exposures, appropriate respiratory protection may be required. Respirator selection and use should be based on contaminant type, form and concentration. Follow OSHA 1910.134, ANSI Z88.2 and good Industrial Hygiene practice.

**Skin Protection:** Oil impervious gloves such as neoprene recommended.

**Eye Protection:** Safety glasses or safety goggles recommended.

**Other Protective Equipment:** None normally required. Wear protective clothing in dusty environments.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**Specific Gravity:** 1,70 - 2,10

**Flash Point (Method Used):** Not applicable

**Flammable Limits: LEL:** Not applicable

**Appearance and Odor:** White and None

**Water Solubility:** Insoluble

**Autoignition Temp:** Not determined

**UEL:** Not applicable

## SECTION 10: STABILITY AND REACTIVITY

**Stability:** Stable

**Incompatibility/Conditions to Avoid:** Avoid contact with strong oxidizers and open flames.

**Hazardous Polymerization:** Will not occur.

**Hazardous Decomposition:** Thermal decomposition can yield carbon monoxide, carbon dioxide, hydrogen fluoride, oxides of nitrogen, perfluoroisobutylene, hexafluoropropylene, carbonyl fluoride, tetrafluoroethylene, and aliphatic hydrocarbons.

## SECTION 11: TOXICOLOGICAL INFORMATION

Inhalation of thermal decomposition of polytetrafluoroethylene may cause polymer fume fever with symptoms of tightness in the chest, fever, cough, shortness of breath and weakness. Severe exposures may cause pulmonary edema.

## SECTION 12: ECOLOGICAL INFORMATION

No data is currently available.

## SECTION 13: DISPOSAL CONSIDERATIONS

**Waste Disposal Method:** These products may be classified as hazardous waste under US EPA RCRA regulations due to leachable barium content. Dispose in accordance with all applicable local, state/provincial and federal regulations. Local regulations may be more stringent than regional and national requirements. It is the responsibility of the waste generator to determine the toxicity and physical characteristics of the material to determine the proper waste identification and disposal in compliance with applicable regulations.

## SECTION 14: TRANSPORT INFORMATION

### U.S. DOT HAZARD CLASSIFICATION

Proper Shipping Name: Not Regulated

Technical Name: Not applicable

UN Number: Not applicable

Hazard Class/Packing Group: Not applicable

Labels Required: None

## SECTION 15: REGULATORY INFORMATION

**EPA SARA 311 Hazard Classification:** Chronic Health

**EPA SARA 313 Chemicals:** This products contain the following chemicals listed under SARA 313: None

**Hazardous Substance (40CFR 116) CERCLA:** None

**EPA Toxic Substances Control Act (TSCA) Status:** All of the components of this product are listed on the TSCA inventory.

**California Proposition 65:** This product contains the following chemicals known to the State of California to cause cancer and/or reproductive toxicity: None known

**Canadian WHMIS Classification:** Class D – Division 2 – Subdivision B (Toxic material causing other chronic effects)



**Canadian WHMIS Hazard Symbols:**

This MSDS has been prepared according to the criteria of the Controlled Products Regulation (CPR) and the MSDS contains all of the information required by the CPR.

## 16: OTHER INFORMATION

NFPA Hazard Rating: Health: 0 Fire: 1 Reactivity: 0

HMIS Hazard Rating: Health: 1\* Fire: 1 Reactivity: 0

\* Chronic Health Hazard

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