



MATERIAL SAFETY DATA SHEET

Section 1**Product Identification****Product Name:** TECHTREX™**Date Prepared:** 11/22/2004**Part Number:** 83200**Formula:** With PTFE**Manufacturer / Supplier:**

Tech line Coatings, Inc
 26844 ADAMS AVE.
 MURRIETA, CA 92562
 USA
 Phone 951-304-0498
 Fax 951-461-9658
 www.techlinecoatings.com

Chemical Family: Polyetheretherketone**Emergency Phone:**

Chemtrec
 1-800-424-9300
 1-703-527-3887

Section 2**Composition / Data On Components**

Component	CAS#	% of Weight	OSHA PEL	ACGIH TLV	Sara 313
Polyetheretherketone	(CAS 29658-26-2)	<25	N/A	N/A	N/A
No TLV or OSHA PEL assigned to this resin. Minimize exposure in accordance with good hygiene practice					
Polyamide-imide polymer	Trade Secret	<7	Not Established	Not Established	
Triethylamine	12-44-8	<3	25PPM	1PPM	N/A
4,4'-methylenedianiline	101-77-9	<.1	.01PPM	.1PPM	Yes
1-Methyl-2-pyrrolidone (N-methylpyrrolidone)	872-50-4	<2	Not Established	Not Established	Yes

Ingredients not precisely identified are proprietary or non-hazardous

Section 3**Hazards Identification****Appearance and Odor:** Gray liquid with minimal odor

Emergency Overview: Danger! Contains MDA, which may cause cancer. Liver toxin. May be absorbed through the skin. Causes eye irritation.

Hazard Description: At temperatures above 600F, some polymer fumes may be emitted due to oxidation of the fluorocarbon polymer. Therefore, smoking should not be permitted when working with this material

Section 4**First Aid Measures****After EYE Contact:**

Immediately flush with plenty of water for at least 15 minutes. If redness, itching or a burning sensation develops, have eyes examined and treated by medical personnel

After SKIN Contact: Wash material off the skin with plenty of soap and water. If redness, itching or a burning sensation develops, seek medical attention. For thermal burns, cool quickly with water and get medical attention. Do not peel off solidified material. Remove contaminated clothing without delay. Do not reuse clothing without laundering.

After INHALATION:

Remove victim to fresh air. If cough or other respiratory symptoms develop, consult medical personnel. Administer oxygen if there is difficulty in breathing. Obtain medical attention immediately if necessary.

After SWALLOWING:

Give one or two glasses of water to drink. If gastrointestinal symptoms develop, consult medical personnel. (Never give anything by mouth to an unconscious person)

Section 5

Fire Fighting Measures

Flash Point: >200°F
Method:

Flammable Limits LEL-:
N/A

Flammable Limits UEL-:
N/A

Stability: See Section 10
Stable under normal conditions

Extinguishing Media:

Water, fog, foam, carbon dioxide, dry chemical, halogenated agents

Special Fire Fighting Procedures:

Self-contained breathing apparatus with full face piece and protective clothing

Unusual Fire And Explosion Hazards:

At temperatures above 600F, some polymer fumes may be emitted due to oxidation of the fluorocarbon polymer. Therefore, smoking should not be permitted when working with this material. Keep away from ignition sources.

Section 6

Accidental Release Measures

Steps to be taken in case material is released or spilled:

- Remove sources of ignition.
- Warn other workers of spill.
- Wear protective equipment
 - NIOSH Approved Respirator
 - Gloves
 - Safety Glasses
- Do not allow material to be released into the environment without proper governmental permits

Measures for cleaning / collecting: Wear skin, respiratory and eye protection during clean-up. Sweep up and recover or mix material with moist absorbent and shovel into waste container

Additional Information:

- See Section 7 for safe handling information.
- See Section 8 for PPE information
- See Section 13 for disposal information

Section 7

Handling and Storage

Handling: Wear skin, respiratory and eye protection. Avoid prolonged or repeated contact with skin.

Storage: Do not allow material to freeze. Keep containers tightly sealed. Do not store with acids.

Section 8

Exposure Controls and Personal Protection

Engineering Controls: Exhaust ventilation. Showers, Eyewash stations

Respiratory Protection: Use NIOSH approved respirator if TWA/TLV limits are exceeded

Protective Gloves: Impervious gloves.

Eye Protection: Safety glasses with side shields

Other Protective Equipment: Impervious apron.

Ventilation: Local Exhaust: Use To Maintain Below TWA Limits

Mechanical: Use Non-Sparking Equipment

Work / Hygienic Practices: wash thoroughly after handling product and before eating, drinking or smoking

Section 9

Physical And Chemical Properties

Appearance and Odor: Gray liquid with minimal odor

Boiling Point: Not Applicable

Vapor Density (Air = 1): 1.3

Vapor Pressure:

Melting Point: 640F

Solubility in Water: Appreciable

Reactivity in Water: None

VOC's: 0

SECTION 10

STABILITY AND REACTIVITY

Stability: Stable under normal conditions

Incompatibility (Materials to Avoid): Dissolved by concentrated sulphuric acid

Hazardous Decomposition Products: Carbon Dioxide/Carbon Monoxide

Hazardous Polymerization: Will not occur

Section 11

Toxicological Information

No toxicity information is available on this specific preparation; this product has components that are considered to have the following toxicological hazards:

Effects on Eyes: Severe irritating effect. Strong corrosive effect.

Effects on Skin: Severe irritation to skin and mucous membranes. Exposure to vapor can cause lacrimation, conjunctivitis and corneal edema.

Effects from Inhalation: May result in chemical pneumonitis, edema and inflammation, mechanical irritation of upper respiratory passages may occur. Careless handling of fine powders can create dust clouds which may be inhaled, as with all powders care must be taken when handling. May cause coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting.

Effects from Swallowing: Harmful if swallowed, corrosive. Danger of perforation of esophagus and stomach.

Other Toxicity Data:

This product contains N-methylpyrrolidone (NMP) which has an oral LD50 of 7000mg/kg (rat). Its dermal LD50 is 8000 mg/kg (rabbit). Twenty-day dermal application to rabbits at 0.8 ml/kg/day produced only mild local inflammatory effect. At 1.6 ml/kg/day one rabbit died after 1 week, while three showed no significant effects other than local skin irritation. NMP also causes eye irritation. In a human patch test, no irritation developed in 24 hours. Prolonged contact produced mild, transient irritation. When applied to the skin of pregnant rats, NMP caused birth defects only at high dosages that were toxic to the mother.

This product contains < .2% residual 4,4'-methylenedianiline (MDA). Dermal absorption of MDA is rapid. Acute exposure via inhalation, ingestion or absorption through the skin can induce liver toxicity and symptoms indicative of hepatitis. These effects are totally reversible at exposure levels below the recommended workplace exposure limits. Direct contact with the eye or ingestion of MDA can result in damage to the retina of the eye. Direct contact may be irritating to the skin, causing dermatitis. Long term overexposure to MDA via inhalation, ingestion or dermal absorption is suspected to cause bladder cancer in humans, MDA is considered a suspected human carcinogen by OSHA, the international Agency for Research on Cancer (IARC), the National Toxicology Program (NTP), the American Conference of Governmental Industrial Hygienists (ACGIH, and the National Institute for Occupational Safety and Health (NIOSH).

Section 12

Ecological Information

General Comments: Do not allow material to be released into the environment without proper governmental permits

Section 13

Disposal Considerations

Waste Disposal Method: Unused product is not a hazardous waste under RCRA. Empty container retains product residue. Observe all precautions. Do not distribute, make available, furnish or reuse empty container except for storage and shipment of original product. Remove all product residue and puncture or otherwise destroy empty container before disposal. Disposal should be made in accordance with federal, state and local regulations.

Section 14

Transportation Information

Hazardous for Shipping: Not Regulated

DOT Shipping Name: Not Regulated

Technical Name: N/A

DOT Hazard Class: Not Regulated

DOT Labels: Not Regulated

UN Number: Not Regulated

Placards: Not Regulated

Packing Group: Not Regulated

Air (IATA): Not Regulated

Sea (IMDG): Not Regulated

Section 15

Regulations

Product Related Hazard Information: No other adverse clinical effects are known to be associated with exposures to this material

Hazard Symbols: None

Risk Phrases: N/A

Safety Phrases: N/A

National Regulations:

Information about Limitation or Use:

Other Regulations, Limitations, and Prohibitive Regulations:

TSCA (Toxic Substances Control Act) Regulations, 40 CFR 710: All ingredients are on the TSCA Chemical Substance Inventory

CEPA (Canadian Environmental Protection Act): Polyetheretherketone is on the Non-Domestic Substances List.

Other Determined Regulations: California Proposition 65: Contains listed ingredients

Health and Safety Executive (UK): Occupational Exposure Limits. Guidance Note EH 40/89.

Section 16

Other Information

This information is furnished without warranty, representation, inducement or license of any kind, except that it is accurate to the best of Tech Line Coatings, Inc., knowledge or obtained from sources believed by Tech Line Coatings, Inc. to be accurate. Tech Line Coatings, Inc. does not assume any legal responsibility for use or reliance upon same. Before using any chemical, read its label, instructions and material safety data sheet.