



MATERIAL SAFETY DATA SHEET

Product: Monofilament produced from polymeric materials

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: HPA-01, HPA-13, HPA-14, HPA-30, HPA-40, HPA-43, HPA-44, HPA-45, HPA-46, HPA-47, HPA-80, SHPA-90, HPA-98B, HPA-500, HPA-501, MX-119

PRODUCT USE: For fabrication into paper machine cloth and other industrial products

MANUFACTURER: Jarden Applied Materials
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EMERGENCY PHONE NUMBER: 1-800-535-5035 INFOTRAC

2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME:	WEIGHT (%)	CAS NUMBER
polyphenylene sulfide	80-99	26125-40-6
tetrafluoroethylene / ethylene copolymer	1-20	68258-85-5

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Synthetic plastic fiber with slight characteristic odor. Fiber is not considered hazardous at ambient conditions.

Potential Health Effects:

Eyes: Degradation vapors may cause irritation

Skin: Degradation vapors may cause irritation

Inhalation: Inhalation of hazardous degradation fumes may cause dizziness, and nausea

Ingestion: No specific information is available

Local exhaust should be used when material is heated above 350 degrees C

Ingredients found on one of the OSHA/WHIMS designated carcinogen lists are provided below:

INGREDIENT NAME:

NTP STATUS

None

IARC STATUS

None

OSHA LIST

None

ACGIH STATUS

None

4. FIRST AID MEASURES

Skin: Not likely to be hazardous

Eyes: If irritated, flush with water for 15 minutes; Seek medical attention if condition persists

Inhalation: Remove to fresh air; seek medical attention if condition persists

Ingestion: No specific information is available

Advice to physician: This product is essentially inert and non toxic. However, if it is heated at high temperature or burned, gases may be released. Patients who have been exposed to off-gases may need to have their arterial blood gases and carboxyhemoglobin levels checked.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:

Flash Point: > 470 deg C

Flash Point Method: ASTM D1920

Auto-ignition Temperature: Not determined

Upper Flame Limit (volume % in air): Not applicable

Lower Flame Limit (volume % in air): Not applicable

Flame Propagation Rate (solids): Not applicable

OSHA Flammability Class: Not applicable; solid material

Extinguishing Media: Use any standard agent (water, foam, dry chemical, carbon dioxide)

Fire fighters should wear self contained breathing apparatus (SCBA); potentially toxic hydrogen sulfide could be produced during a fire.

6. ACCIDENTAL RELEASE MEASURES

IN CASE OF SPILL OR OTHER RELEASE (always wear recommended personal protective equipment): Sweep or vacuum material and place in container for proper disposal.

Spills and releases may have to be reported to Federal and/or local authorities. See Section 15 regarding reporting requirements.

7. HANDLING AND STORAGE

Normal Handling (Always wear recommended personal protective equipment): Avoid processing material above recommended thermal processing temperature. Read product technical data sheet before use, or contact technical service representative for specific advice. Avoid breathing thermal processing fumes and vapors. Avoid inhalation and/or skin contact with product dust. Avoid dust in contact with eyes.

Use local exhaust ventilation at all emission points. Wash thoroughly after handling.

Storage Recommendations: To maintain product quality, store in cool, dry area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Good manufacturing practice and good industrial hygiene practice recommend the use of local exhaust ventilation at process emission points.

Personal Protective Equipment:

Skin Protection: Wear gloves when handling fiber. Wash hands after use.

Eye Protection: Wear safety glasses with side shields as a minimum.

Respiratory Protection: If dusty conditions exist, use a mechanical filter respiratory approved by NIOSH. For exposure to fumes and vapors above 350 deg C, use a positive pressure air supplied respirator approved by NIOSH.

Additional recommendations:

Exposure Guidelines: Operators performing grinding and machining of product should be reviewed to assure particulate levels are kept below recommended standards.

<u>Ingredient Name:</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>AEL (DuPont)</u>
Polymer dust		15 mg/cu m, 8 hour (total) 5 mg/cu m, 8 hour (respirable)	
Nuisance particulate	10 mg/ cu m (total) 3 mg /cu m (respirable)		
Hydrogen fluoride	3 ppm, 2.6 mg/m ³	3 ppm, 8 hour TWA	3 ppm, 15 minute TWA
Carbonyl fluoride	2 ppm, 5.4 mg/m ³		

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Filament
Physical State: Solid
Odor: Slight characteristic odor
Specific Gravity: 1.3 – 2.1
Solubility in Water: Insoluble
pH: Not Applicable
Boiling Point: Not Applicable
Melting Point: 255 - 300 deg C
Vapor Pressure: < 0.001 mm Hg
Evaporation Rate: Not Applicable
% Volatile: < 0.5 % by weight
Flash Point: Not Applicable
Color: Beige/Tan

10. STABILITY AND REACTIVITY

Normally Stable (Conditions to Avoid): Product is stable under ordinary conditions of use and storage. Avoid exposure to open flame or temperatures exceeding optimum operating temperatures. Consult technical service personnel for recommended processing conditions.

Incompatibilities: None known

Hazardous Decomposition Products: Phenyl sulfides, dichlorobenzene, phenyl mercaptan, hydrogen sulfide, aromatic compounds, carbonyl sulfide, sulfur compounds, hydrogn fluoride above 300deg C

Hazardous Polymerization: Will not occur

11. TOXICOLOGICAL INFORMATION

Immediate (Acute) Effects: No specific information available

Delayed (Sub-Chronic and Chronic) Effects: No specific information available

Other Data:

12. ECOLOGICAL INFORMATION

No ecotoxicological information is available for this product. These products are not considered degradable or toxic in terms of their physical impact. Material is expected to have low aquatic toxicity because of its insolubility in water.

13. DISPOSAL CONSIDERATIONS

Is the unused product a RCRA hazardous waste if discarded? No

If yes, the RCRA ID number: Not Applicable

Other Disposal considerations: Preferred options for disposal are recycle, incineration with energy recovery and landfill. Treatment, storage, transportation, and disposal of product must comply with applicable federal, state, and local disposal laws or regulations.

14. TRANSPORTATION INFORMATION

US DOT (Department of Transportation): Not Regulated

Canadian TDG (Transportation of Dangerous Goods): Not Regulated

15. REGULATORY INFORMATION

TOXIC SUBSTANCES CONTROL ACT (TSCA):

TSCA INVENTORY STATUS: All components are listed on the TSCA Inventory or are exempt under PMN regulations. This product could contain traces of n-methyl pyrrolidone, p-dichlorobenzene, and phenol which are TSCA 12b chemicals

OTHER TSCA ISSUES: None

US FOOD AND DRUG ADMINISTRATION (FDA): Not Applicable

SARA TITLE III/CERCLA:

SARA/CERCLA HAZARDOUS SUBSTANCES:

Reportable Quantities (RQ) and/or "Threshold Planning Quantities (TPQs) do not exist for this product.

16. OTHER INFORMATION

CHANGES TO MSDS FROM PREVIOUS ISSUE DATE ARE DUE TO THE FOLLOWING:

Change Company Name and logo.

NATIONAL FIRE PROTECTION AGENCY (NFPA) AND NATIONAL PAINT AND COATINGS ASSOCIATION (NPCA) RATING CLASSIFICATION:

	<u>NFPA</u>	<u>HMIS</u>
Health	2	0
Flammability	1	1
Reactivity	0	0

Disclaimer: This product is not intended for use in medical implants.

The information contained herein is presented in good faith and is accurate to the best of our knowledge. Jarden Applied Materials can not guarantee that any hazards listed herein are the only ones which may exist. Jarden Applied Materials makes no warranty of any kind, expressed or implied, concerning the safe use of this material in your process or in combination with other substances. User has the sole responsibility to determine the suitability of the material for their use. User must meet all applicable safety and health standards.

Refer to the appropriate Jarden Applied Materials bulletin for specific processing guide lines and good manufacturing practices.

CURRENT ISSUE DATE: 14 April 2008

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