

Safety Data Sheet

AMI-FAB™ KV-70 WIRE INSERT SEWING THREAD

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<u>Trade Names/Synonyms:</u>	AMI-FAB™ KV-70 Wire Insert/PTFE-coated para-aramid sewing thread with stainless steel insert.
<u>Product Identification:</u>	AMI-FAB™ KV-70 Wire Insert Sewing Thread.
<u>Chemical Name/Synonyms:</u>	polyterafluoroethylene coated poly(terephthaloylchloride/pphenylenediamine) with a stainless steel wire – PTFE-coated para-aramid yarn plied with a stainless steel wire.
<u>Manufacturer's Name:</u>	Auburn Manufacturing, Inc P. O. Box 220 Mechanic Falls, ME 04256 800-264-6689

2. HAZARDS IDENTIFICATION

OSHA HCS Status: Product is not a hazardous chemical as defined by OSHA Standard 29 CFR 1910.1200



Precautionary Statements:

- P281: Wear personal protective equipment as required
- P302: If on skin, wash with mild soap and running water
- P304: If inhaled, move individual to fresh air. Seek medical attention if irritation persists
- P305: If in eyes, flush eyes at least 15 minutes; seek medical attention if irritation persists

Hazard Statements: N/A

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3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Abstracts Service Number: N/A

<u>Hazardous Ingredients</u>	<u>Weight %</u>	<u>OSHA-PEL</u>	<u>ACGIH-TLV</u>	<u>OTHER</u>
Poly(terephthaloylchloride/ p-phenylenediamine)/paraaramid	> 70%	a.	a.	-----
Polytetrafluoroethylene	0 to 20%	not known	not known	-----
Chromium (Cr)	1 to 3%	1 mg/m ³	0.5 mg/m ³	-----
Nickel (Ni)	0 to 4%	1 mg/m ³	0.2 mg/m ³	-----
Manganese (Mn)	0 to 1.5%			
Dust		5 mg/m ³ C*	0.02 mg/m ³	-----
Fume		5 mg/m ³ C*	0.02 mg/m ³	-----

Nonhazardous Ingredients

Sizing		-----none established-----		
Iron (Fe)	4.5 to 9%	10 mg/m ³	5 mg/m ³	-----

C* = Ceiling Limit

a OSHA has not established a specific PEL (Permissible Exposure Limit) for para-aramid, nor has the American Conference of Governmental Industrial Hygienists (ACGIH) established a TLV (Threshold Limit Value). It is considered to be a "particulate not otherwise regulated" (PNOR) and is covered under the OSHA nuisance dust PEL's of 5 mg/m³ for the respirable dust fraction and 15 mg/m³ for the total dust fraction for an 8-hr TWA (Time Weighted Average).

IARC rated p-aramid fibrils as "non-classifiable as to its carcinogenicity for animals and for humans": Class III. However, it is strongly recommended not to exceed 2 RFP/ml as 8 hour TWA, with a concentration of 2.5 RFP/ml (15 min.) as a ceiling value. RFP (respirable, fiber-shaped particulates) are fragments with diameters less than 3 μm, lengths up to 100 μm and a length/diameter ratio of at least 3:1.

4. FIRST AID MEASURES

Inhalation: Move individual to fresh air. Seek medical attention if irritation persists.

Skin Contact: Wash with mild soap and running water. Use a washcloth to help remove fibers. To avoid further irritation do not rub or scratch irritated areas. Rubbing or scratching may force fibers into the skin. Seek medical attention if irritation persists.

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4. FIRST AID MEASURES (CON'T)

Eye Contact: Flush eyes with flowing water for at least 15 minutes. Seek medical attention if irritation persists.

Ingestion: N.A (Not Applicable)

5. FIRE FIGHTING MEASURES

Extinguishing Equipment: Water, foam, carbon dioxide, dry chemical

Special Fire-Fighting Instructions: In a sustained fire, self contained breathing apparatus with full facepiece and protective clothing should be worn.

Unusual Fire and Explosion Hazards: An accumulation of p-aramid dust and fly in sufficient concentration could present a fire risk. Para-aramid dust particles are potentially explosive (Class ST 1): keep all sources of ignition away from those areas where concentrations may occur. Take into account the possible effects of an electrostatic charge.

6. ACCIDENTAL RELEASE MEASURES

ACTION TO TAKE FOR SPILLS (Use Appropriate Safety Equipment/PPE):

For solid product, not applicable.

For dusts and fibers generated during fabrication vacuum up using high efficiency particulate air (HEPA) filtered vacuum equipment and containerize.

7. HANDLING, STORAGE AND DISPOSAL

Handling: See Section 8.

Storage: No special precautions necessary.

Disposal: Dispose of in accordance with federal, state and local regulations as a solid nonhazardous waste.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation: General dilution ventilation and/or local exhaust ventilation should be provided, as necessary, to maintain exposures below PEL's or TLV's. **Adequate ventilation must be provided at elevated temperatures.**

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION (CON'T)

Respiratory Protection: A properly fitted NIOSH/MHSA approved disposable dust respirator such as the 3M model 8210 or model 9900 (in high humidity environments) or equivalent should be used when: the level of Chromium/Nickel/Manganese dust or p-aramid fibers in the air exceeds the OSHA permissible exposure limits; high dust levels are encountered; or if irritation occurs. Use respiratory protection in accordance with your company's respiratory protection program and OSHA regulations under 29 CFR 1910.134.

Eye Protection: Safety glasses, goggles or face shields should be worn whenever fiberglass materials are being handled.

Protective Clothing: Wear loose fitting, long sleeved shirt that covers to the base of the neck, and long pants. Skin irritation from exposure to para-aramid is known to occur chiefly at pressure points such as around the neck, wrist and waist. Wear gloves when handling product.

Work/Hygienic Practices: Handle in accordance with good industrial hygiene and safety practices:

- = Avoid unnecessary exposure to dusts and fibers
- = Avoid breathing fibers or dust
- = Do not handle moving threadlines of para-aramid, as entanglement with a high strength fiber can severely cut or even sever fingers.
- = Remove fibers from skin after exposure
- = Be careful not to rub or scratch irritated areas. Rubbing or scratching may force the fibers into the skin. The fibers should be washed off. Use of barrier creams can, in some instances, be helpful.
- = Use vacuum equipment to remove fibers and dusts from clothing. **COMPRESSED AIR SHOULD NEVER BE USED.** Always wash work clothes separately and wipe out the washer/sink in order to prevent loose glass fibers from getting on other clothes.
- = Keep the work area clean of any dusts and fibers generated during fabrication. Use vacuum equipment to clean up dusts and fibers. Avoid sweeping or using compressed air as these techniques resuspend dusts and fibers into the air.
- = Have access to safety showers and eye wash fountains.
- = For professional use only. **Keep out of children's reach.**

Exposure Limits (TLVS): N/A

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9. PHYSICAL AND CHEMICAL PROPERTIES

Melting Point (Softening): Para-aramid Boiling Point(°C): N/A (Not Applicable)
begins to decompose at about 800 F
(~400 C), in air by oxidation.

Specific Gravity (Bare Glass): NM Percent Volatile: N/A

Vapor Pressure: (mm Hg): N/A Vapor Density (Air = 1): N/A

Evaporative Rate (Ethyl Ether = 1): N/A Solubility in Water: Not soluble

Appearance and Odor: Yellow/tan/ colored solid with wire and no odor.

pH: N/A Relative Density: N/A

Upper/Lower Flammability or Exposure Limits: N/A

Freezing Point: N/A Flash Point: N/A

Partition coefficient (n-octanol/water): N/A Auto Ignition Temperature: N/A

Decomposition Temperature: N/A Viscosity: N/A

10. STABILITY AND REACTIVITY

Stability (Conditions to Avoid): Product is stable.

Stabilizers: N/A

Incompatibility (Materials to Avoid): None known.

Hazardous Decomposition Products: Sizings or binders may decompose in a fire. Primary decomposition products include carbon monoxide, carbon dioxide, other hydrocarbons, small amounts of hydrogen cyanide and water.

Hazardous Polymerization: Will not occur.

Flash Point (°F): N/A (Not Applicable)

Auto Ignition Temperature (°F): N/A

Flammability Limits (%): LEL: N/A UEL: N/A

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11. TOXICOLOGICAL INFORMATION

Primary Routes of Exposure: Inhalation and skin contact.

Health Hazards (Including acute and chronic effects and symptoms of overexposure):

ACUTE:

Inhalation: Inhalation of dusts and fibers may result in irritation of the upper respiratory tract (mouth, nose and throat)

Chromium (Cr)/Nickel (Ni)/Manganese (Mn) - dust or fumes may give a metallic taste, headache, nausea, chills, fever, irritation of the respiratory tract, cough.

Skin Contact: Skin contact with dusts and fibers may produce itching and temporary mechanical irritation.

Eye Contact: Eye contact with fibers and dusts may produce temporary mechanical irritation.

Ingestion: Temporary mechanical irritation of the digestive tract. Observe individual. If symptoms develop, consult a physician.

CHRONIC: See carcinogenicity section below. Chronic exposure to Chromium (Cr)/Nickel (Ni)/Manganese (Mn) fumes or dust may cause skin sensitization, asthma, bronchitis, lung fibrosis or pneumoniosis. It may also cause damage to the kidneys and liver as well as the nervous system.

CARCINOGENICITY:

Hazardous Ingredients: Listed as carcinogen by: ACGIH IARC NTP OSHA

Poly(terephthaloylchloride/p-phenylenediamine) para-aramid (see note a. below)	No	No	No	No
Chromium (Cr)/Nickel (Ni)**	----none known----			

a. Repeated and prolonged inhalation of excessive concentrations of para-aramid respirable fibers may cause permanent lung injury. Short-term inhalation studies in rats and hamsters with an extended follow-up of up to nine months have demonstrated that p-aramid RFP are not biopersistent. Long p-aramid RFP are quickly transversely broken into smaller fragments and then removed from the lung. However, extremely high amounts of inhaled p-aramid RFP may inhibit the clearance mechanisms. Inhalation of high concentrations of RFP causes pulmonary inflammation in rats and hamsters; lifelong exposure to concentrations of 100 and 400 RFP/ml caused pulmonary fibrosis in rats. Only minimal fibrosis was seen at 25 RFP/ml. The fibrosis was largely reversible after cessation of exposure. No malignant tumors resulted from the lifelong inhalation tests in rats. Instead, proliferative cystic tissue changes were observed in rats

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11. TOXICOLOGICAL INFORMATION (CON'T)

a. (con't) after exposure to particulates. They occur mainly in (female) rats and have never been observed in human beings. These cysts were subject of scientific debate for an extended period of time, but current consensus holds that they are not malignant and that their occurrences in animals have no relevance to humans. Intraperitoneal injections of excessive amounts of p-aramid RFP caused only a non-significant increase in the observed number of mesotheliomas. The validity of the intraperitoneal test for the prediction of carcinogenicity is questionable.

****Dusts and fumes containing Chromium (Cr) or Nickel (Ni) should be considered carcinogens.**

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Persons with a history of chronic respiratory or skin conditions that are aggravated by mechanical irritants may be at increased risk for worsening their condition from exposure during use of the product.

12. ECOLOGICAL INFORMATION

N/A

13. DISPOSAL CONSIDERATIONS

See Section 8 (if applicable).

14. TRANSPORT INFORMATION

N/A

15. REGULATORY INFORMATION

N/A

16. OTHER INFORMATION

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Reviewed for content & accuracy

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