

# Safety Data Sheet

## AMI-FAB® KV SEWING THREAD

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### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Names/Synonyms: AMI-FAB® KV/para-aramid sewing thread, various yields.

Product Identification: AMI-FAB® KV, various yields.

Chemical Name/Synonyms: poly(terephthaloylchloride/p-phenylenediamine) - para-aramid yarn.

Manufacturer's Name: 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

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

#### Chemical Abstracts Service Number:

<u>Hazardous Ingredients</u>	<u>Weight %</u>	<u>OSHA-PEL</u>	<u>ACGIH-TLV</u>	<u>OTHER</u>
Poly(terephthaloylchloride/ p-phenylenediamine)/para- aramid	proprietary	a.	a.	-----

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### 3. COMPOSITION / INFORMATION ON INGREDIENTS (CON'T)

<u>Nonhazardous Ingredients</u>	<u>Weight %</u>	<u>OSHA-PEL</u>	<u>ACGIH-TLV</u>	<u>OTHER</u>
Sizing/finish	proprietary	-----	none established-----	-----
Water	proprietary	-----	-----	-----

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/m<sup>3</sup> for the respirable dust fraction and 15 mg/m<sup>3</sup> 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 3µm, 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.
- 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 Media: Water, foam, carbon dioxide, dry chemical

Special Fire-Fighting Instructions: Wear self contained breathing apparatus.

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.

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### 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 and containerize.

### 7. HANDLING, STORAGE AND DISPOSAL

Handling: See Section 8.

Storage: No special precautions necessary.

Disposal: Dispose 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.**

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: high dust levels are encountered; the level of glass fibers in the air exceeds the OSHA permissible exposure limits; 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 fiberglass 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
- = 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.

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

- = 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

### 9. PHYSICAL AND CHEMICAL PROPERTIES

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

Specific Gravity: 1.44      Percent Volatile: N.M. (Not Measured)

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 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

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### 10. STABILITY AND REACTIVITY (CON'T)

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 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

### 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).

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. There are no known health effects associated with chronic exposure to this product.

### 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

- 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

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### 11. TOXICOLOGICAL INFORMATION (CON'T)

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 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 occurrence 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.

**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

SDS Date prepared  
Reviewed for content & accuracy

May 23, 2014  
July 6, 2020

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Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.