

Safety Data Sheet

Section 1: Identification

Product: 19 oz Aluminized Carbon Kevlar (ACK)

Manufacturers Identification:

John Tillman Co.
1300 W Artesia Blvd
Compton, CA 90220
800-255-5480

Last revised: 6/19/14

Tillman Aluminizes Carbon Kevlar (ACK) products are a woven fabric consisting of an aramid fiber blend over an oxidized PAN (OPF) core yarn, and an aluminum film on one side. The suggested applications include safety clothing, curtains, and molten metal splash protection.

Section 2: Hazard Identification

There are no hazardous ingredients in this product according to OSHA 29 CFR 1910.1200.

Hazard: Irritant

Acute exposure: Although the textile itself is not considered toxic or hazardous- dust from cutting and application may cause irritation to the respiratory tract and cause symptoms similar to bronchitis. The product has a very low order of acute toxicity and ingestion is not expected to cause any harm.

The exposure limit for particulate not otherwise regulated is 15 mg/m³ total dust and 5 mg/m³ respirable dust

Primary Routes of Exposure: eye contact, skin contact and inhalation may cause temporary irritation.

Section 3: Composition and Information on Ingredients

<i>Ingredients</i>	<i>% w/w</i>	<i>CAS #</i>
Para-aramid	22%	26125-61-1
Oxidized polyacrylonitrile	62%	308060-39-1
Aluminized Film	16%	n/a

Section 4: First-Aid Measures

Inhalation: If irritation occurs, move to fresh air

Skin Contact: If irritation occurs, wash with water and mild soap

Eye Contact: If irritation occurs, gently rinse the affected area with clean water for at least 15 minutes.

Ingestion: Rinse mouth with water and seek medical attention

If in any case irritation persists please seek medical assistance.

Section 5: Fire-fighting Measures

Suitable Extinguishing Media: dry chemical powder, foam, fog, carbon dioxide or water.

Specific Hazards: not explosive. The product itself will not burn but its packaging may.

Flash point: n/a

Auto Ignition temp: n/a

Flammability limits: n/a

Special Protective Equipment: Self-containing breathing apparatus, protective clothing, gloves and a helmet.

Section 6: Accidental Release Measures

Personal Precaution: Do not breathe in fiber dust; use a respirator if there is a lot of dust.

Methods and Materials for Containment: Scoop up dust and fibre mechanically, ideally with a vacuum cleaner to avoid spreading it into the air. Also, avoid dust and fibre spillage into drains and sewers.

Section 7: Handling and Storage

Precautions for Safe Handling: Avoid contact with eyes and skin. Wear suitable protective gear when cutting and working with the material. For large rolls use appropriate mechanical devices. Avoid breathing in dust. Handle in accordance with good industrial hygiene and safety practices.

Conditions for Safe Storage: Store in a cool, dry, well ventilated location

Section 8: Exposure Controls/ Personal Protection

Exposure Controls: Not directly subjected to any exposure regulations (OSHA, PEL, ACGIH, TLV or NIOSH-REL) Respirable fiber-shaped particulates (RFP) may be released from cut-fibers. It is recommended to keep these levels below 5 mg/m³.

Appropriate Engineering Controls: Ventilation- local exhaust ventilation should be provided as necessary to maintain exposures below occupational exposure limits.

Individual Protection Measures: The following precautions are advisable during cutting and fabrication or other operations that could generate dust while using this material.

If the level of dust in the air exceeds occupational exposure limits regulated under OSHA regulations 29 CFR 190.134 use properly fitted NIOSH/MHSA approved dust respirator.

Eye protection: Safety glasses, goggles, or face shields, as necessary.

Protective clothing: wear loose fitting long sleeve shirt and pants to protect areas from exposure to dust. The use of barrier creams can, in some instances, be helpful.

Section 9: Physical and Chemical Properties

Appearance: light green and aluminized one side

Odor: none

Odor Threshold: n/a

pH: n/a

Melting/ Freezing Point: n/a

Initial Boiling Point: n/a

Flash Point: n/a

Evaporation: n/a

Flammability: none flammable

Upper/Lower Flammability: n/a

Vapor Pressure: n/a

Vapor Density: n/a

Relative Density: >1 g/cm³

Solubility: insoluble in water

Partition coefficient: n/a

Auto-ignition Temp: n/a

Decomposition Temp: 572°F 300°C

Viscosity: n/a

Section 10: Stability and Reactivity

Chemical Stability: Stable under normal conditions

Possibility of Hazardous Reaction: none reasonably foreseeable

Incompatible Materials: Extremely strong bases or acids can cause chemical decomposition (hydrolysis) of the molecules if exposed for an extended period of time which can release harmful byproducts. Long exposure to UV light can negatively affect the strength and color of the base fabric.

Hazardous Decomposition Products: Thermal decomposition starting at temperatures above 572°F (300°C) may release toxic or hazardous products such as carbon monoxide, carbon dioxide, silicon dioxide, nitrogen oxides, small amounts of hydrogen cyanide and ammonia.

Hazardous Polymerization: Will not occur.

Section 11: Toxicological Information

Routes of Exposure:

Inhalation: Acute LC₅₀ is unknown. Repeated inhalation of RFP can cause bronchitis like symptoms.

Skin: Dermal toxicity is unknown. Slight skin irritation has been observed in isolated cases. No chronic effects are known for this product.

Eyes: While this product has not been tested, it is expected that it would be minimally irritating to the eyes based on tests with similar products.

Ingestion: Oral LD₅₀ is not available for this product. There are no known chronic effects.

Acute Toxicity: unknown

IARC, NTP, ACGIH or OSHA does not classify this material as a carcinogen or suspect carcinogen.

Section 12: Ecological Information

Ecotoxicity: n/a

Persistence and Degradability: n/a

Bioaccumulative potential: n/a

Mobility in Soil: n/a

This product is not considered harmful to aquatic organisms nor to cause long-term adverse effects to the environment.

Section 13: Disposal Considerations

Disposal should be in accordance with relevant national and local regulations pertaining to the disposal of non-hazardous waste. Do not dump dust particles into sewers or anybody of water.

Section 14: Transport Information

UN Number: n/a

Shipping Information: Not regulated for transport.

All information and recommendations are presented in good faith and are believed to be correct but no warranty, expressed or implied is made. All materials should be handled with reasonable caution.