

MATERIAL SAFETY DATA SHEET

Date 12/16/08

SECTION I - MANUFACTURER'S INFORMATION

NAME: John Tillman Co PRODUCT: 19 oz Aluminized Carbon Kevlar (ACK)
ADDRESS: 1300 W Artesia Blvd BASE MATERIAL:
 Compton, CA 90220 Series 900 Textile
TELEPHONE: 800-255-5480 COATING:
 polyester laminate

Tillman Aluminizes Carbon Kevlar (ACK) products are heat resistant synthetic textiles consisting of stabilized semi-carbon and aramid fibers. A surface finish or lamination may be part of the finished product. An aluminized polyester film is laminated to one side.

SECTION II - OSHA HAZARDOUS SUBSTANCES

<u>COMPONENT</u>	<u>CAS NO.</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>
There are no hazardous ingredients in this product according to OSHA 29 CFR1910.1200.			

Fiber components:

-oxidized polyacrylonitrile	68908-35-0
-para-aramid	mixture

Laminate (when present)

-aluminized polyester film	mixture
-adhesive	proprietary mixture

Exposure limit for particulate not otherwise regulated	15 mg/m3, total dust
	5 mg/m3, respirable dust

SECTION III - PHYSICAL DATA

Boiling Point: N/A	Specific Gravity (water=1): N/A
Melting Point: N/A	Vapor Density: N/A
Percent Volatile: N/A	Vapor Pressure: N/A
Solubility in Water: Insoluble	Evaporation Rate: N/A
Appearance and odor: Base fabric – green; Laminate – Aluminum; no odor	

SECTION IV - FIRE AND EXPLOSION DATA

FLASH POINT: N/A	METHOD USED: N/A
AUTO IGNITION TEMP: N/A	FLAMMABILITY LIMITS: N/A
EXTINGUISHING MEDIA: Water, chemical foam, dry chemical, CO2, and/or smother.	
SPECIAL FIRE FIGHTING INSTRUCTIONS: Use self-contained breathing apparatus to protect against hazardous decomposition products when this product is exposed to temperatures above 570°F (300°C).	
UNUSUAL FIRE AND EXPLOSION HAZARDS: N/A	

SECTION V - HEALTH HAZARD DATA

PRIMARY ROUTES OF EXPOSURE: Inhalation, skin, eye

HEALTH HAZARDS:

ACUTE: Possible mechanical irritation accompanied by itching or dermatitis.

CHRONIC: None known.

HEALTH HAZARD EVALUATION

Tillman Aluminized Carbon Kevlar (ACK) products are believed to be safe for their intended use.

Each of the synthetic fibers in the blend has been evaluated for health hazards by the manufacturer of the fiber. Their information indicates that the fibers are not toxic or irritating based on animal and some human skin test data.

SECTION VI - EMERGENCY AND FIRST AID PROCEDURES

INHALATION: If irritation develops move to fresh air.

SKIN CONTACT: If fibers irritate the skin wash with soap and water.

EYE CONTACT: Flush eyes with water for 15 minutes or until fibers are removed.

INGESTION: N/A

FOR ALL CONDITIONS SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS.

SECTION VII - EMPLOYEE PROTECTION

THE FOLLOWING PRECAUTIONS ARE ADVISABLE DURING CUTTING AND FABRICATION OR OTHER OPERATIONS THAT COULD GENERATE DUST WHILE USING THIS MATERIAL.

VENTILATION: General dilution and/or local exhaust ventilation should be provided as necessary to maintain exposures below occupational exposure limits (See Section II).

RESPIRATORY PROTECTION: A properly fitted NIOSH/MHSA approved dust respirator should be used when: 1) the level of dust in the air exceeds occupational exposure limits (See Section II); 2) 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, as necessary.

PROTECTIVE CLOTHING: Wear loose fitting long sleeve shirt and pants or other appropriate clothing to protect those areas where irritation is experienced.

WORK AND HYGIENIC PRACTICES: Handle in accordance with good industrial hygiene and safety practices.

- Remove dust and fibers from the skin after exposure. Be careful not to rub or scratch irritated areas which could force fibers into the skin. Fibers should be washed off.
- Use of barrier creams can, in some instances, can be helpful.
- Use vacuum equipment to remove fibers and dust from clothing. Wash contaminated clothing separately and wipe out washer/sink in order to prevent loose fibers and dust from contaminating other laundry.
- Use vacuum equipment to clean work surfaces.

SECTION VIII - REACTIVITY DATA

STABILITY: Product is stable.

INCOMPATIBILITY: None reasonably foreseeable.

HAZARDOUS DECOMPOSITION PRODUCTS: Base fabric will decompose above 570°F (300°C) producing CO₂, CO, and small amounts of Hydrogen Cyanide, and other toxic gases depending on conditions. Decomposition gases from aluminized polyester and its adhesive will be produced at temperatures in excess of 400°F (204°C). Avoid inhalation of decomposition gases.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION IX - STORAGE PRECAUTIONS

N/A

SECTION X- ENVIRONMENTAL PROTECTION

SPILLS: N/A

WASTE DISPOSAL: Dispose as a solid non-hazardous waste, in accordance with federal, state, and local regulations.