



SAFETY DATA SHEET

Specialty Products, Inc.

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Lewco KSS5-1, KSS5-1L and KSS10-1L
Product Use Description: Kevlar/Strand Stainless Steel Sewing Thread
Manufacturer/Distributor: Lewco Specialty Products, Inc.
6859 Renoir Avenue
Baton Rouge, LA 70806
Telephone: (800) 221-6414 TX & AR (800) 233-9755
(225) 924-3221 Fax (225) 927-2918
Emergency Telephone: Not available

2. HAZARDS IDENTIFICATION

GHS hazard classification

Health hazards: Respiratory or skin sensitization, 1 Skin
Physical hazards: Not classified
Environmental: Not classified

GHS lab elements

Signal words: Not classified
Hazard statements: H317, May cause an allergic skin reaction
H335, May cause respiratory irritation
Hazard pictograms/symbols: Not applicable

Precautionary statements

(Prevention): P264, Wash...thoroughly after handling.
(Response): P302 + P352, IF ON SKIN-Wash with plenty of soap and water.
P304 + P340, IF INHALED-Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312, Call a POISON CENTER or doctor/physician if you feel unwell.
P321, Specific treatment (see supplemental first aid on this label).
P332+313, If skin irritation occurs-Get medical advice/attention.
P370+378, In case of fire: Use dry chemical, dry sand, carbon dioxide or alcohol-resistant foam to extinguish.
(Storage): Not applicable
(Disposal): P501, Dispose of contents/container in accordance with local regulation.

Description of any hazards not otherwise classified: Not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS number	% by weight
Kevlar Fiber	N/A	70 - 90
Stainless Steel wire	N/A	10 - 30

(See Section 8 for Exposure Limits)

4. FIRST AID MEASURES

Inhalation:	Move individual to fresh air. Drink water to clear throat and blow nose to remove fibers. Seek medical attention if irritation persists.
Skin Contact:	Wash with mild soap and running water: use a washcloth to help remove dust and 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:	Drink extra water to assist natural elimination. Seek medical attention if gastrointestinal irritation persists or other symptoms such as nausea, vomiting, or abdominal pain occur.
Most important symptoms/effects-acute or delayed:	Not applicable
Immediate medical care and special treatment needed:	Indication for physician: No specific medical precaution necessary.

5. FIRE FIGHTING MEASURES

Suitable extinguishing equipment:	Water, foam, carbon dioxide (CO ₂), dry chemical, sand
Flammable Properties:	KEVLAR aramid fiber is inherently flame resistant, but can be ignited (limiting oxygen index = 29); Burning normally stops when the ignition source is removed. Pulp or dust accumulations may continue to smolder if once ignited. Dust of KEVLAR does not present an explosion hazard.
Specific hazards:	Burning KEVLAR produces combustion gases similar to those from wool mostly carbon dioxide, water and oxides of nitrogen; however, carbon monoxide, small amounts of hydrogen cyanide and various other toxic gases are produced, depending on conditions of burning.
Special protective equipment or precautions for firefighters:	Use personal protective equipment. Wear self-contained breathing apparatus (SCBA) for firefighting to avoid inhalation of smoke.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions and protective equipment:	Wear suitable protective clothing, gloves and eye/face protection. Just in case of dusty environment avoid contact with the skin and the eyes.
Emergency procedures:	Evacuate personnel to safe areas. Provide sufficient ventilation.
Environmental precautions:	Glass fiber and PTFE products are ecologically harmless.
Cleanup procedures:	Vacuum clean, sweep or shovel into containers normally used for glass waste. Dispose of in accordance with appropriate laws and regulations.

7. HANDLING AND STORAGE

Handling:	Use adequate safety equipment (gloves, glasses, dust mask) in order to minimize the possible risk of contact with skin, mucous membrane and eyes and decrease irritations and allergies.
Storage:	Keep in manufacturer bag and store in a good ventilated area. Avoid direct sun light.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Limits

Component:	Limit/set by
Kevlar	OSHA: TLV-TWA, 15 mg/m ³ (total nuisance dust) and 5 mg/m ³ (respirable nuisance dust)

Engineering controls

Ventilation:	General dilution ventilation and/or local exhaust ventilation should be provided, as necessary to maintain exposures below TWA's limitation
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Personal protective Equipment

Respiratory Protection:	A properly fitted NIOSH/MHSA approved disposable dust respirator (TC-21C-132) should be used when: the level of dust in the air exceeds permissible exposure limits; or if irritation occurs. Use respiratory protection in accordance with your company's respiratory protection program and OSHA regulations under CFR
Hand Protection:	Wear gloves when handling this product, and wash thoroughly with soap and water after handling materials.
Eye Protection:	Safety glasses, goggles or face shields should be worn whenever materials are being handled.
Protective Clothing:	Wear loose fitting, long sleeved shirt and long pants if irritation is experienced.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.):	Solid, Yellow thread/yarn
Upper/lower flammability or explosive limits:	Not available
Odor:	No odor
Vapor pressure:	Not available
Odor threshold:	Not available
Vapor density:	Not available
pH:	Not available
Relative density Specific Gravity (H₂O=1):	Not available
Melting point:	> 572 °F (Kevlar)
Solubility(ies):	Not soluble in water
Initial boiling point and boiling range:	Not available
Flash point:	Not available
Evaporation rate:	Not available
Flammability (solid, gas):	Not available
Partition coefficient(n-octanol/water):	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity:	Not available

10. STABILITY AND REACTIVITY

Chemical Stability:	Product is stable under normal conditions of use.
Conditions to avoid:	Heating materials above 200 °C (392 °F) can release hazardous gases.
Materials to avoid:	Strong acids and strong bases.

Hazardous decomposition products:

If the material is heated, residual proprietary organic ingredients contained in this product may produce smoke and irritating fumes including carbon monoxide and carbon dioxide. Heat generated by laser cutting of fabric of KEVLAR or of laminates containing KEVLAR generates a variety of toxic off gases, some of which may cause irritation of the respiratory tract.

Possibility of hazardous reactions/reactivity:

Not available

11. TOXICOLOGICAL INFORMATION

Likely routes of exposure:

Inhalation and skin contact

Chronic toxicity/effects from short- and long-term exposure:

As shipped, KEVLAR aramid fiber products do not pose a hazard. KEVLAR staple and pulp contain a small amount of respirable fibers which may become airborne during opening, mixing, carding or regrinding waste products containing KEVLAR. When mechanically working KEVLAR fiber or materials containing KEVLAR in operations such as cutting, machining, grinding, crushing or sanding, airborne respirable fibers may be formed. Repeated and prolonged inhalation of excessive concentration of respirable fibers may cause permanent lung injury.

Acute toxicity:

Inhalation of dusts and fibers may result in irritation of the upper respiratory tract (mouth, nose and throat); Skin contact with dusts and fiber may product itching and temporary mechanical irritation; Eye contact with fibers and dusts may produce temporary mechanical irritation; Ingestion with fibers and dusts may cause temporary mechanical irritation of digestive tract.

Carcinogens:

None of the components in this material is listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

12. ECOLOGICAL INFORMATION

This product not biologically decomposable, and has no known eco-toxicological effects. It is considered to be an inert solid waste. This material is not expected to cause harm to animals, plants or fish. No special precautions are needed in case of a release or spill.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Dispose in accordance with federal, state, and local regulations as a solid non-hazardous waste.

14. TRANSPORT INFORMATION

Kevlar fiber are not materials in sense of hazardous material. Therefore there are no special measures necessary for the transportation and labeling by land, sea or air. Transport in closed vehicles in original packaging to protect from humidity.

15. REGULATORY INFORMATION

U.S. Federal Regulations:

EPA: Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III: KEVLAR contains no toxic chemicals as regulated under section 313 Emergency Planning and Community Right-to-Know Act (EPCRA) of SARA Title III and 40 CFR part 372. KEVLAR is not regulated as hazardous waste under CERCLA and is not subject to the Superfund tax.

FDA: Some, but not all, KEVLAR fiber products are approved for use as articles or components of articles

intended for repeated contact with food. (See CFR 21, Part 177.1632, 4/1/92 Edition.)

State Regulation

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): KEVLAR contains none of the substances known to the State of California to cause cancer or reproductive toxicity.

Pennsylvania and New Jersey Right-to Know Laws: KEVLAR is not subject to provisions of the Pennsylvania and New Jersey Right-to-Know laws.

16. OTHER INFORMATION

Prepared by: Peter Zhou

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