



Carolina Narrow Fabric Company

SAFETY DATA SHEET

NAME OF PRODUCT: Aramid Fabric

FILE NO.:
SDS DATE: 06/01/2015

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Aramid fabric
SYNONYMS: Kevlar; Technora
PRODUCT CODES:

MANUFACTURER: Carolina Narrow Fabric Company
DIVISION:
ADDRESS: 1100 Patterson Ave, Winston Salem, NC 27001

EMERGENCY PHONE: 336 631 3000
CHEMTREC PHONE:
OTHER CALLS:
FAX PHONE: 336 631 3060

CHEMICAL NAME: Poly(terephthaloylchloride/p-phenylenediamine)
CHEMICAL FORMULA:

PRODUCT USE: belting / slings
PREPARED BY: Carolina Narrow Fabric Company

SECTION 1 NOTES:

SECTION 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: This is not a hazard under normal use

ROUTES OF ENTRY: Respiratory, Skin, Eyes, Ingestion

POTENTIAL HEALTH EFFECTS

EYES: An inert solid. May be irritating if particles contact the eye.

SKIN: Constant rubbing of fabric against skin can cause irritation

INHALATION: May irritate the upper respiratory tract if particles are airborne

INGESTION: Material is an inert solid and should pass through the digestive tract. Large quantities may cause blockage; seek medical help if blockage is suspected.

ACUTE HEALTH HAZARDS: None known

CHRONIC HEALTH HAZARDS: Processing may create fiber dust in the air small enough to be breathed into the lungs. Based on animal studies breathing this dust at very high concentrations repeatedly over long periods of time may cause lung injury (fibrosis).

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None

CARCINOGENICITY : Not classified as carcinogenic

OSHA: ACGIH: NTP: IARC:

SECTION 3 NOTES: This product is not classified as carcinogenic

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT: Aramid fiber with finish

CAS NO.	% WT	% VOL	SARA 313 REPORTABLE
Poly(terephthaloylchloride/p-phenylenediamine)	>89		
26125-61-1			
Fiber Finish	< 2		
Absorbed water	7 - 9		



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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)

	<u>ppm</u>	<u>mg/m3</u>
OSHA PEL-TWA: Total dust		5
Respirable		2
OSHA PEL STEL :		
ACGIH TLV-TWA:	N/A	
ACGIH TLV STEL:		

SECTION 3 NOTES:

SECTION 4: FIRST AID MEASURES

EYES: Treat as a solid and remove as any foreign object. Flush with water

SKIN: Flush with ample cool water, wash with mild soap to remove accumulated fibers

INGESTION: If blockage is suspected seek medical attention.

INHALATION: Remove to fresh air if distress persists get medical assistance.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: Treat symptomatically.

SECTION 4 NOTES:

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR: Aramid fabric is inherently flame resistant but can be ignited. Burning normally stops when the ignition source is removed.

FLASH POINT: Not applicable

METHOD USED:

AUTOIGNITION TEMPERATURE: Not applicable

NFPA HAZARD CLASSIFICATION

HEALTH: 0 FLAMMABILITY: 1 REACTIVITY: 0
OTHER:

HMIS HAZARD CLASSIFICATION

HEALTH: 0 FLAMMABILITY: 1 REACTIVITY: 0
PROTECTION:

EXTINGUISHING MEDIA: Water, All purpose dry chemical (ABC), CO₂, foam

SPECIAL FIRE FIGHTING PROCEDURES: Full protective clothing and NIOSH approved self contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Accumulation of fiber dust and fly at sufficient concentrations could present a fire hazard. Keep away from ignition sources including static electricity.

HAZARDOUS DECOMPOSITION PRODUCTS: During combustion irritating and toxic gases may be generated.

SECTION 5 NOTES:



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SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: No special procedures are required to clean up a spill. Fabric is not biodegradable.

SECTION 6 NOTES:

Dispose of in accordance with local, state and federal regulations.

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Aramids are degraded by ultraviolet light, do not store in direct sunlight. Fluorescent lighting will cause discoloration but will not affect fiber mechanical properties.

OTHER PRECAUTIONS:

SECTION 7 NOTES:

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Atmospheric monitoring may be required to determine the effectiveness of the ventilation or the necessity of respiratory protective equipment. Use sufficient ventilation to remove dust or vapors generated.

VENTILATION : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

RESPIRATORY PROTECTION: If dust generation exceeds 5 mg/m³ a NIOSH approved dust mask is recommended.

EYE PROTECTION: Safety glasses with side shields.

SKIN PROTECTION: Practice good personal hygiene and wash after handling.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: None normally required.

WORK HYGIENIC PRACTICES: Good personal hygiene should be practiced to minimize problems.

EXPOSURE GUIDELINES: Total dust exposure 5 mg/m³; Respirable 2 mg/m³ per DuPont recommendations.

SECTION 8 NOTES:

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Typically gold in color

ODOR: no distinctive odor

PHYSICAL STATE: Woven/knitted fabric

pH AS SUPPLIED: N/A

pH (Other):

BOILING POINT: N/A

MELTING POINT: N/A

FREEZING POINT: N/A

VAPOR PRESSURE (mmHg): Not available



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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

- VAPOR DENSITY (AIR = 1): Not available
- SPECIFIC GRAVITY (H2O = 1): 1.44 – 1.45
- EVAPORATION RATE: Not available
- SOLUBILITY IN WATER: Insoluble
- PERCENT SOLIDS BY WEIGHT: >89
- PERCENT VOLATILE:
BY WT/ <9
- VOLATILE ORGANIC COMPOUNDS (VOC): N/A
- MOLECULAR WEIGHT: Not available
- VISCOSITY: N/A

SECTION 9 NOTES

SECTION 10: STABILITY AND REACTIVITY

STABLE

- STABILITY: The product is stable
- CONDITIONS TO AVOID (STABILITY): Fiber decomposition may occur at temperatures > 400°C
- INCOMPATIBILITY (MATERIAL TO AVOID): Avoid contact with strong oxidizing agents , bases or acids.
- HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: None under normal storage conditions. At elevated temperatures the finish may boil off as a fume and should be vented.
- HAZARDOUS POLYMERIZATION: Under normal conditions of storage and use hazardous reactions will not occur
- CONDITIONS TO AVOID (POLYMERIZATION): None known

SECTION 10 NOTES: Incompatible with Strong Acids and Strong Bases. Hazardous thermal decomposition products: carbon dioxide, nitrogen oxides, hydrogen cyanide (gaseous), ammonia, anhydrous, aldehydes, hydrocarbons.

SECTION 11: TOXICOLOGICAL INFORMATION

- TOXICOLOGICAL INFORMATION: This product is not toxic
- Oral LC50 N/A
- Dermal LC50 N/A
- Inhalation LC50 Effects of breathing high concentration of respirable particles may include risk of serious lung damage.

SECTION 11 NOTES: This product is not carcinogenic.

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: The fabric is not ecologically hazardous.

SECTION 12 NOTES:



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SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of in accordance with local, state and Federal laws and regulations

RCRA HAZARD CLASS: Not classified as a hazardous waste. Is not biodegradable and should not be flushed to sanitary sewer .

SECTION 13 NOTES:

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME: Aramid Fabric (Kevlar)

HAZARD CLASS: non hazard

ID NUMBER:

PACKING GROUP:

LABEL STATEMENT:

WATER TRANSPORTATION

PROPER SHIPPING NAME: Aramid Fabric (Kevlar)

HAZARD CLASS: non hazard

ID NUMBER:

PACKING GROUP:

LABEL STATEMENTS:

AIR TRANSPORTATION

PROPER SHIPPING NAME: Aramid Fabric (Kevlar)

HAZARD CLASS: non hazard

ID NUMBER:

PACKING GROUP:

LABEL STATEMENTS:

OTHER AGENCIES:

SECTION 14 NOTES: Not regulated by DOT

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): All components are listed or exempted

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): Not reportable

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

311/312 HAZARD CATEGORIES: None

313 REPORTABLE INGREDIENTS:None

STATE REGULATIONS: Not regulated

INTERNATIONAL REGULATIONS: Not regulated

SECTION 15 NOTES: This product does not contain any toxic components.



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SECTION 16: OTHER INFORMATION

OTHER INFORMATION: Original document

Revision 0

PREPARATION INFORMATION:

DISCLAIMER: The information contained in this data sheet is based on present scientific and technical knowledge . The purpose of this information is to demonstrate the health and safety aspects concerning these products supplied by CNF and to recommend precautionary measures for the storage and handling of these products. No warranty or guarantee is given in respect of the properties of these products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.