

MATERIAL SAFETY DATA SHEET

Tire Cord & Fabric



Florida Tire Recycling, Inc.

Providing Environmental Solutions

Manufactured by:

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SECTION 1 – MATERIAL IDENTIFICATION AND USE

Material Name : Tire Cord Fabrics
Chemical Family: Synthetic Nylon and Polyester Fiber
Material Use: Material used for reinforcing rubber tires
Chemical Identification: Polyethylene Terephthalate and Nylon Type 6,6
Chemical Name, Trade Names and Synonyms: Polyester and Nylon Staple Fiber

SECTION 2 – HAZARDOUS INGREDIENTS OF MATERIAL

Skin Contact: Contact with fibers may cause mechanical irritation of skin.
Inhalation: Some individuals, e.g. with asthma or bronchitis, are likely to be intolerant of high concentrations of airborne fibers or fiber dust when processing.
Skin Absorption: None known
Eye Contact: Fibers or fiber dust may cause irritation or scratch the surface of the eyes.
Ingestion: None known

SECTION 3 – FIRST AID MEASURES

Eyes: Flush with water to remove particles.
Skin: Wash off with flowing water.
Inhalation: Remove to fresh air if effects occur and seek medical attention if persistent coughing or other symptoms develop.
Ingestion: No treatment required (no harm).
Notes to Physician: Fibers can be regarded as physiologically inert since no poisoning or other injurious effects have been observed in cases where this material has been used internally (surgical sutures, replacement of blood vessels, etc.). On external contact, no signs of dermatitis or other skin injury have been observed.

SECTION 4 – FIRE AND EXPLOSION HAZARDS

Flash Point:	Not Applicable
Autoignition Temperature:	500°C
Flammable Limits in Air, % by Volume:	Not determined
Extinguishing Media:	Water, CO ₂ , Dry Chemicals, Foam-Fog
Special Fire Fighting Procedures:	Avoid excessive inhalation of smoke or potential thermal decomposition products. Wear self contained breathing apparatus meeting NIOSH standards.
Unusual Fire & Explosion Hazard:	None

SECTION 5 – ACCIDENTAL RELEASE MEASURES

Aquatic Toxicity:	None known
Steps to be Taken if Material is Released or Spilled:	Sweep or vacuum up and place in a waste disposal container or reuse.
Neutralizing Chemicals:	Not applicable

SECTION 6 – HANDLING & STORAGE

Precautionary Statements:	No special handling has been shown to be necessary.
Other Handling & Storage Requirements:	Avoid overstacking to prevent collapse or breakage of the package. Do not store near flame or incompatible materials. Maintain good housekeeping to control dust accumulations.

SECTION 7 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation Requirements:	Local exhaust for fiber dust only.
Specific Personal Protective Equipment:	
Respiratory:	For operations where inhalation exposure can occur, a NIOSH approved respirator recommended by an industrial hygienist may be necessary.
Eye:	For operations where eye or face contact can occur, eye protection such as goggles or a face shield is recommended.
Skin:	Not required
Additional Equipment:	Not required
Precautionary Statements:	While the product may contain trace amounts of non-toxic surfactants and/or lubricants approved for textiles, no special handling has been shown to be necessary.
Exposure Guidelines:	Dust should be considered a nuisance dust: ACGIH TLV 10 mg/m ³ total dust

OSHA PEL: 15 mg/m³ total dust; 5-mg/m³ respirable dust

SECTION 8 – PHYSICAL & CHEMICAL PROPERTIES

Polyester

Chemical Formula: C₁₀H₈O₄

Physical State: White solid

Boiling Point: Not determined

Melting Point: 260°C

% Volatiles by Vol. Not Applicable

Vapor Density: Not Applicable

Vapor Pressure: Not Applicable

Specific Gravity: 1.38 g/cm³

Molecular Weight: >30,000

VOC percent: None

pH: Not Applicable

pH (1% Solution): Not Applicable

Solubility in Water: Not soluble

Evaporation Rate: Not Applicable

Nylon

Chemical Formula: C₁₂H₂₂O₂N₂

Physical State: White solid

Boiling Point: Does not boil

Melting Point: 250-260°C

% Volatiles by Vol. Not Applicable

Vapor Density: Not Applicable

Vapor Pressure: Not Applicable

Specific Gravity: 1.12-1.16 g/cm³

Molecular Weight: Not determined

VOC percent: None

pH: Not Applicable

pH (1% Solution): Not Applicable

Solubility in Water: Not soluble

Evaporation Rate: Not Applicable

SECTION 9 – STABILITY AND REACTIVITY

Incompatibilities:

Tends to dissolve in caustic materials.

Conditions Contributing to Instability:

Contact with flame; temperatures above 400°C.

Hazardous Decomposition Products:

Thermal decomposition products may include CO, ethylene glycol and other C, H and O compounds varying in chemical structure and molecular weight.

Conditions Contributing to Hazardous Polymerization:

Hazardous polymerization will not occur.

Incompatibilities:

Tends to decompose in strong acids & bases.

Conditions Contributing to Instability:

Contact with flame; temperatures above 300°C.

Hazardous Decomposition Products:

At temperatures above 340°C/644°F: C, CO, CO₂, NO₂, NO₃, HCN.

Conditions Contributing to Hazardous Polymerization: Hazardous polymerization will not occur.

SECTION 10 – TOXICOLOGICAL INFORMATION

Acute Overexposure:

Not considered to cause allergic contact dermatitis on testing results for skin irritation (rabbits), skin sensitization (guinea pig), and clinical evaluation using the repeated insult patch test.

Chronic Overexposure:

Not available

SECTION 11 – ECOLOGICAL INFORMATION

Aquatic Toxicity:

No data available

SECTION 12– DISPOSAL CONSIDERATIONS

RCRA:	Is the unused product an RCRA waste if discarded? No
Waste Disposal Method:	Dispose of in accordance with applicable governmental non-hazardous solid waste regulations.
Steps to be Taken if Material is Released or Spilled:	Sweep up and place in a waste disposal container.
Neutralizing Chemicals:	Not Applicable

SECTION 13– TRANSPORTATION INFORMATION

Proper Shipping Name: Polyester Staple Fiber
NMFC Item No.: 68310
HTC No.: 5503.20

Proper Shipping Name: Nylon Staple Fiber
NMFC Item No.: 68310
HTC No.: 5503.10

SECTION 14 – REGULATORY INFORMATION

International:

IATA: Not regulated
ICAO: Not regulated
IMDG: Not regulated
Canada: DSL/NDSL: This product is included on the Canadian Domestic Substance List.
Canada: TDG: Not regulated
Canada: WHMIS: Not a controlled product.
EU: All components of this product are listed on EINECS or are exempt from EINECS registration.

Federal:

DOT: Not hazardous
OSHA: This product is not hazardous under the criteria of Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.
SARA: No ingredients listed.
TSCA: This product is certified for inclusion on the TSCA Inventory of Chemical Substances.

State:

CA: Proposition 65: This product does not contain chemicals known to the State of California to cause cancer or reproductive toxicity.

SECTION 15 – OTHER INFORMATION

Other Information: Polyester and Nylon Fibers maybe coated with minor quantities of finish oils. Processes may volatilize portions of these finishes. Ventilation is recommended to minimize exposure to such finish mists, which should not exceed a concentration of 5 mg/m³, the ACGIH TLV for mineral oil.

Disclaimer: To the best of our knowledge, the information contained herein is accurate. However, we cannot assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of the suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.

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