



Polypropylene (PP), Polyethylene (PE), Nylon tapes and yarns for artificial turf Safety Data Sheet

Section 1: Identification

1.1 Product identifier

Product form: filaments

Product Identifier(s): This SDS is applicable to all extruded Polyethylene, Polypropylene, and Nylon monofilament texturized goods by Viridian Fibers

It is applicable to all supplied colors and versions.

1.2 Recommended use of the product

Mainly used as face or roots yarn in the artificial turf carpet products

1.3 Details of the supplier of the safety data sheet

Manufacturer Viridian Fibers

210 Howell Drive Dalton, GA 30721

Non-emergency product information: 706-529-1608

1.4 Emergency contact number- 706-529-1608

Section 2: Hazards Identification

2.1 Classification of the substance or mixture

Extruded polyethylene (PE), polypropylene (PP) and Nylon filament with addition of pigments stabilizing agents, additives and possible spin finish: does not contain heavy metals

2.2 Label elements

N/A

2.3 Hazards not otherwise classified

No additional information available

2.4 Unknown acute toxicity

N/A

Section 3: Composition/ Information on ingredients

3.1 Substance

N/A

3.2 Mixture

Name	Cas No.	%
Polypropylene, Polyethylene, or Nylon polymer	9003-07-0 / 9002-88-4	>= 92
Pigments and additives (chemical identity withheld as trade secret)	Trade Secret	<= 8 (trade secret)


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Section 4: First aid measures

- 4.1 Description of first aid measures:**
The product in original form (yarns/ tapes/ filaments) does not pose any health hazard. However below will apply to heated material in case of fire.

First-aid measures after vapor inhalation:	Remove person to fresh air and keep comfortable for breathing. If necessary, seek medical advice.
First-aid measures after skin contact:	Gently wash with plenty of soap and water. For serious burns from heated material: get medical attention. In case of skin contact, immediately immerse in or flush with clean, cold water. Do not attempt to remove adhered material from skin.
First-aid measures after eye contact:	Rinse eyes with water as a precaution; 15 minutes is preferred. Obtain medical attention if irritation persists. In case of eye contact with hot material, cool immediately with plenty of water and obtain immediate medical treatment.
First-aid measures after ingestion:	No effects are expected for ingestion of small amounts. May be a choking hazard. Remove material from mouth, rinse mouth out with water. Do NOT induce vomiting.

- 4.2 Indication of any immediate medical attention and special treatment needed**
 No additional information available

Section 5: Firefighting measures

- 5.1 Extinguishing media**

Suitable extinguishing media:	For small fire: Dry chemical powder (DCP), Carbon dioxide (CO ₂), water mist. For large fire: Foam. Water mist.
Unsuitable extinguishing media:	Do not use a solid water stream as it may scatter and spread fire.

- 5.2 Special hazards arising from the product**
Fire hazard: May be combustible at high temperature. Vapors generated from overheating /melting/ decomposition may be flammable and may cause fire / explosion if source of ignition is present.
Hazardous decomposition of products in case of fire: Carbon oxides (CO, CO₂), Aldehydes, Ketones, Acrolein, Hydrocarbons. Fire will produce dense black smoke and soot. Gasses may be suffocating or toxic in sufficient concentration.

- 5.3 Advice for firefighters**
Firefighting instructions: Fight fire from safe distance and protected location. Apply aqueous extinguishing media carefully to prevent frothing / steam explosion. Prevent fire-fighting water from entering environment.
Protection during firefighting: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. Material may re-ignite after fire is extinguished.



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Section 6: Accidental release measures

- 6.1 **Personal precautions, protective equipment and emergency procedures**
Not applicable
- 6.2 **Methods and material for containment and cleaning up**
Not applicable
- 6.3 **Reference to other sections**
N/A

Section 7: Handling and Storage

- 7.1 **Precautions for safe handling**
Precautions for safe handling: Wear personal protective equipment. Avoid contact with heated product to prevent burns.
 When handled, this product and its associated packaging may present a crushing hazard due to the large mass involved, possibly resulting in severe injury or death.
Hygiene measures: Do not eat, drink or smoke when using this product. Keep away from food and drink. Always wash hands after handling the product for good hygiene.
- 7.2 **Conditions for safe storage, including any incompatibilities**
Storage conditions: Store at room temperature. Protect from heat and direct sunlight. Store in dry, cool, well-ventilated area.
 Ground equipment when using the product. Electrostatic charges may be generated when unrolling. Keep material away from explosive atmospheres.
 Incompatible materials: Strong oxidizing agents.

Section 8: Exposure controls/personal protection

- 8.1 **Occupational Exposure Limits**
No information available
- 8.2 **Exposure controls**
 Eye protection: Safety glasses.
 Skin and body protection: Wear suitable protective clothing and safety footwear.
 Hygiene measures: Wash hands after contact with product.

Section 9: Physical and chemical properties

- 9.1 **Information on basic physical and chemical properties**

Physical state:	Solid
Appearance:	Spools with extruded yarn
Color:	Can appear in different color (For example, green, white, blue, yellow...)
Odor:	Weak paraffin
Odor threshold:	No data available
PH:	Not applicable
Flash point:	Not applicable
Auto-ignition temperature:	PE > 330 °C (> 626 °F) PP > 350 °C (> 662 °F) Nylon > 400 C (752 F)


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Softening point/range:	PE: 90 – 100°C (194 – 212°F) PP: 140 - 160 °C (284 - 320 °F) Nylon: >300 C under prolonged exposure to heat
Melting point:	PE: 120-130°C (248 – 266 °F) PP: 160 - 170 °C (320 - 338 °F) Nylon: 220+ °C
Freezing point:	No data available
Boiling point:	No data available
Decomposition temperature:	No data available
Flammability (solid, gas):	No data available
Vapor pressure:	No data available
Relative vapor density at 20 °C:	No data available
Density:	ca 0.92 g/cm ³
Viscosity, kinematic:	Not applicable
Viscosity, dynamic:	No data available
Explosion limits:	Not applicable

9.2 Other information

No additional information available

Section 10: Stability and reactivity

10.1 Reactivity

The product is inert; caution has to be taken for electrostatic charges, which may ignite explosive atmospheres.

10.2 Chemical stability

The product is stable at normal handling and storage conditions.

10.3 Possibility of hazardous reactions

No information available

10.4 Conditions to avoid

Avoid contact with hot surfaces

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions > 360°C (> 400°F):
carbon monoxide, carbon dioxide, toxic fumes.

Section 11: Toxicological information

11.1 Information on toxicological effects

For PE, PP & Nylon:	Not applicable
Food contact Approval:	Approved according European Regulations AP 89(1) for Food Packaging Material
Likely routes of exposure:	Ingestion. Skin and eye contact.
Acute toxicity:	Not classified
Skin corrosion/irritation:	Not classified


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Serious eye damage/irritation:	Not classified
Respiratory or skin sensitization:	Not classified
Carcinogenicity:	Not classified
Polypropylene homopolymer (9003-07-0) and Polyethylene (9002-88-4)	
IARC group	3 – Not classifiable
Specific target organ toxicity (single exposure):	Not classified
Specific target organ toxicity (repeated exposure):	Not classified
Aspiration hazard:	Not classified

Section 12: Ecological information

12.1 Toxicity

Ecology - general: The product is not considered harmful to aquatic organisms nor to cause longterm adverse effects in the environment.

12.2 Persistence and degradability

This material is persistent in the environment. Not readily biodegradable.
BOD (% of ThOD) is below detection limit

12.3 Bio accumulative potential

This product is not expected to bio accumulate through food chains in the environment.

12.4 Mobility in soil

Ecology - soil low mobility.

12.5 Other adverse effects

Other information: Avoid release to the environment.

Section 13: Disposal considerations

13.1 Waste treatment methods

This product does not meet the criteria of a hazardous waste if discarded in its purchased form. Transfer to a safe disposal area in accordance with federal, state, country and local regulations.

13.2 Waste disposal recommendations: Recycle the material as far as possible.

Section 14: Transport information

The material is not classified according to the recommendations of RID/ADR, GGVS/GGVE, ADNR, IDMG, ICAO-TI/IATA-DGR on the transport of dangerous goods.

It is not regulated by US DOT

Section 15: Regulatory information

15.1 Labelling according to EC directive 88/379/EEC and subsequent amendments is not required

15.2 R -rules: none
S- rules: none

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15.3 US federal regulations:
SARA Section 313 Supplier notification

This product contains no toxic chemicals in excess of the applicable de Minimis concentration that are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.4 California: This product does not contain any of the substances listed on the Proposition 5 list, version 29 December, 2017

15.5 Europe: This product does not contain any of the substances as listed in the REACH regulation annex XVII, update of 19 June 2017 and the list of SVHC (Substances of very high concern) update 12 July 2017.

Section 16: Other information

Document revised: 15 May 2020

Other information: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200 and GHS classification.

NFPA (National Fire Protection Association)

NFPA health hazard: 0

NFPA fire hazard: 1

NFPA reactivity: 0



The information contained in this Safety Data Sheet (SDS) is believed to be accurate on the date issued. However, materials may present unknown hazards and should be used with caution. Final determination of suitability and use of any material is the sole responsibility of the user.

REGARDING THE MATERIALS OR THE INFORMATION CONTAINED IN THIS SDS. ALTERATION OF THIS DOCUMENT IS STRICTLY PROHIBITED.