



SDS | Blitz Turf Backing

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 PRODUCT IDENTIFIER: Artificial Grass Backing

OTHER MEANS OF IDENTIFICATION: -

1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST:

Relevant uses: Industrial formulation. For professional users only.

Uses advised against: All uses not specified in this section or in section 7.3

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:

PLAE Verticle Inc.
190 Etowah Industrial Ct.
Canton, GA 30114
United States

(404) 645- 7900

SECTION 2: HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE: CLP REGULATION (EC) NO 1272/2008:

The product is not classified as hazardous according to CLP Regulation (EC) No 1272/2008.

2.2 LABEL ELEMENTS:

CLP Regulation (EC) No 1272/2008:

None

2.3 OTHER HAZARDS:

Product fails to meet PBT/vPvB criteria

Endocrine-disrupting properties: The product fails to meet the criteria.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 SUBSTANCE:

Non-applicable

3.2 Mixture:

Chemical description: Mixture of substances

Components:

1st layer of fabric:



SDS p.2 | Blitz Turf Backing

Primary Carpet Back - Black (UV)

NAME	PRODUCT IDENTIFIER	%	Classification according to Classification, Labelling and Packaging of Substances and Mixtures (SEA) Regulation published in the Official Journal numbered 28848 on December 11, 2013
Polypropylene	(CAS-No.) 9003-07-0 (EC-No.) 618-352-4	96,5- 96,7	Not classified
UV	(CAS-No.) 65447-77-0 / 71878-19-8	1,3- 1,5	Eye Irrit. 2, H319 Acute Tox. 2,,H330 STOT SE 3, H335 Aquatic Chronic 3, H412
Color Masterbatch	(CAS-No.) 1333-86-4 / 9002-88-4	1,5- 2	Not classified
Calcium carbonate masterbatch	(CAS-No.) 1317-65-3 / 9003-07-0s	0,5	Not classified
Estesol PF 790	(CAS-No.) 61791-29-5 / 25322-68-3	0- 5	Not classified



SDS p.3 | Blitz Turf Backing

2ND LAYER OF FABRIC

1ST COMPONENT:

Primary Carpet Back - Black (UV)

NAME	PRODUCT IDENTIFIER	%	Classification according to Classification, Labelling and Packaging of Substances and Mixtures (SEA) Regulation published in the Official Journal numbered 28848 on December 11, 2013
Polypropylene	(CAS-No.) 9003-07-0 (EC-No.) 618-352-4	96,5- 96,7	Not classified
UV	(CAS-No.) 65447-77-0 / 71878-19-8	1,3- 1,5	Eye Irrit. 2, H319 Acute Tox. 2,,H330 STOT SE 3, H335 Aquatic Chronic 3, H412
Color Masterbatch	(CAS-No.) 1333-86-4 / 9002-88-4	1,5- 2	Not classified
Calcium carbonate masterbatch	(CAS-No.) 1317-65-3 / 9003-07-0s	0,5	Not classified
Estesol PF 790	(CAS-No.) 61791-29-5 / 25322-68-3	0- 5	Not classified

2ND COMPONENT:

PET INDUSTRIAL YARN, NOT ADHESION ACTIVATED

NAME	PRODUCT IDENTIFIER	%	Classification according to Classification, Labelling and Packaging of Substances and Mixtures (SEA) Regulation published in the Official Journal numbered 28848 on December 11, 2013
Poly(ethylene terephthalate	(CAS-No.) 25038-59-9	99.1 - 99.6	Not classified
Spining Oil	(CAS-No.) Trade Secret	0.40 - 0.8	Not classified
Ethylene Glycol Antimony	(CAS-No.) 39736-75-2	0.013 -0.017	Eye Irrit. 2, H319 Acute Tox. 2,,H330 STOT SE 3, H335 Aquatic Chronic 3, H412



SDS p.4 | Blitz Turf Backing

SECTION 4: FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES:

Consult a doctor in case of discomfort showing the SDS for the product.

BY INHALATION:

In case of symptoms, move the person affected into fresh air.

BY SKIN CONTACT:

In case of contact it is recommended to clean the affected area thoroughly with water and neutral soap. In case of changes to the skin (stinging, redness, rashes, blisters,...), seek medical advice with this Safety Data Sheet

BY EYE CONTACT:

Rinse with water until the product has been eliminated. In case of problems, consult a doctor showing the SDS for the product.

BY INGESTION/ASPIRATION:

In case of consumption in large quantities, it is recommended to seek medical assistance.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:

Acute and delayed effects are indicated in sections 2 and 11.

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:

Non-applicable

SECTION 5: FIREFIGHTING MEASURES

5.1 EXTINGUISHING MEDIA:

SUITABLE EXTINGUISHING MEDIA:

Product is non-flammable, with a low risk of fire due to the flammability characteristics of the product in normal conditions of storage, handling and use. In the case of the existence of sustained combustion as a result of improper handling, storage or use any type of extinguishing agent can be used (ABC Powder, water,...)

UNSUITABLE EXTINGUISHING MEDIA:

Non-applicable

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

Due to its inflammable nature, the product does not present a fire risk under normal conditions of storage, handling and use.

5.3 ADVICE FOR FIREFIGHTERS:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

ADDITIONAL PROVISIONS:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES



SDS p.5 | Blitz Turf Backing

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

FOR NON-EMERGENCY PERSONNEL:

Isolate leaks provided that there is no additional risk for the people performing this task.

FOR EMERGENCY RESPONDERS:

See section 8.

6.2 ENVIRONMENTAL PRECAUTIONS:

This product is not classified as hazardous to the environment. Keep product away from drains, surface and ground water.

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:

It is recommended:

Sweep up and shovel product or collect by other means and place in container for reuse (preferred) or disposal.

6.4 REFERENCE TO OTHER SECTIONS:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING:

A.- General precautions for safe use comply with the current legislation concerning the prevention of industrial risks with regard to manually handling weights. Maintain order, cleanliness and destroy using safe methods (section 6).

B.- Technical recommendations for the prevention of fires and explosions

It is recommended to transfer at a slow speed to avoid the creation of electrostatic charges that could affect flammable products.

Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is not necessary to take special measures to prevent environmental risks. For more information see subsection 6.2

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:

A.- Technical measures for storage Minimum Temp.: - Maximum Temp.: -

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 SPECIFIC END USE(S):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

plae.us | 404.645.7900

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS:

Substances whose occupational exposure limits have to be monitored in the workplace (European OEL, not country-specific legislation):

Nuisance dust: Inhalable dust 10 mg/m³ // Respirable dust 4 mg/m³

DNEL (Workers):

Non-applicable

DNEL (General population):

Non-applicable

SDS p.6 | Blitz Turf Backing

PNEC:

Non-applicable

8.2 EXPOSURE CONTROLS:

A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Regulation (EU) 2016/425. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection

The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded.

C.- Specific protection for the hands

PICTOGRAM	PPE	LABELLING	CEN STANDARDS	REMARKS
 Mandatory hand protection	Protective gloves against minor risk			Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional users/industrials, we recommend using CE III gloves in line with standards EN 420:2004+A1:2010 and EN ISO 374-1:2016+A1:2018

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

D.- Eye and face protection

PICTOGRAM	PPE	LABELLING	CEN STANDARDS	REMARKS
	Panoramic glasses against splash/projections.		EN 166:2002 EN ISO 4007:2018	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.

SDS p.7 | Blitz Turf Backing

E- Body Protection

PICTOGRAM	PPE	LABELLING	CEN STANDARDS	REMARKS
	Work Clothing			Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 6529:2013, EN ISO 6530:2005, EN ISO 13688:2013, EN 464:1994.
	Anti-slip work shoes		EN ISO 20347:2012	Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 20345:2012 y EN 13832-1:2007

F- Additional emergency measures

It is not necessary to take additional emergency measures.

ENVIRONMENTAL EXPOSURE CONTROLS:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

VOLATILE ORGANIC COMPOUNDS:

With regard to Directive 2010/75/EU, this product has the following characteristics:

V.O.C. (Supply): 0 % weight

V.O.C. density at 20 oC: 0 kg/m³ (0 g/L)

Average carbon number: Non-applicable

Average molecular weight: Non-applicable

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:

For complete information see the product datasheet.

APPEARANCE:

Physical state at 20 oC: Appearance: Solid

Colour: Not available

Odour: Not available



SDS p.8 | Blitz Turf Backing

Odour threshold: Not available*

VOLATILITY:

Boiling point at atmospheric pressure: Non-applicable *

Vapour pressure at 20 oC: Non-applicable *

Vapour pressure at 50 oC: Non-applicable *

Evaporation rate at 20 oC: Non-applicable *

PRODUCT DESCRIPTION:

Density at 20 oC: 1099,6 kg/m³

Relative density at 20 oC: 1,1

Dynamic viscosity at 20 oC: Non-applicable *

Kinematic viscosity at 20 oC: Non-applicable *

Kinematic viscosity at 40 oC: Concentration: Non-applicable *

pH: Non-applicable *

Vapour density at 20 oC: Non-applicable *

Partition coefficient n-octanol/water 20 oC: Solubility in water at 20 oC: Non-applicable *

Solubility properties: Non-applicable *

Decomposition temperature: Non-applicable *

Melting point/freezing point: Non-applicable *

FLAMMABILITY:

Flash Point: Non-applicable

Flammability (solid, gas): Non-applicable

Autoignition temperature: Non-applicable *

Lower flammability limit: Non-applicable *

Upper flammability limit: Non-applicable *

EXPLOSIVE (SOLID):

Lower explosive limit: Non-applicable *

Upper explosive limit: Non-applicable *

PARTICLE CHARACTERISTICS:

Median equivalent diameter: Non-applicable *

9.2 OTHER INFORMATION:

INFORMATION WITH REGARD TO PHYSICAL HAZARD CLASSES:

Explosive properties: Non-applicable *

Oxidising properties: Non-applicable *

Corrosive to metals: Non-applicable *

Heat of combustion: Non-applicable *

Aerosols-total percentage (by mass) of flammable components: Non-applicable *

plae.us | 404.645.7900

OTHER SAFETY CHARACTERISTICS:

Surface tension at 20 oC: Non-applicable *

Refraction index: Non-applicable *

*Not relevant due to the nature of the product, not providing information property of its hazards.



SDS p.8 | Blitz Turf Backing

SECTION 10: STABILITY AND REACTIVITY

10.1 REACTIVITY:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

10.2 CHEMICAL STABILITY:

Chemically stable under the indicated conditions of storage, handling and use.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 CONDITIONS TO AVOID:

Applicable for handling and storage at room temperature

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

10.5 INCOMPATIBLE MATERIALS:

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Not applicable	Not applicable	Avoid alkalis or strong bases

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO₂), carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON HAZARD CLASSES AS DEFINED IN REGULATION (EC) NO 1272/2008:

LD50 oral > 2000 mg/kg (rat)

DANGEROUS HEALTH IMPLICATIONS:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met
- Corrosivity/Irritability: Based on available data, the classification criteria are not met

B- Inhalation (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met
- Corrosivity/Irritability: Based on available data, the classification criteria are not met

C- Contact with the skin and the eyes (acute effect):



SDS p.9 | Blitz Turf Backing

- Contact with the skin: Based on available data, the classification criteria are not met
 - Contact with the eyes: Based on available data, the classification criteria are not met
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):
- Carcinogenicity: Based on available data, the classification criteria are not met IARC: Non-applicable
 - Mutagenicity: Based on available data, the classification criteria are not met Reproductive toxicity: Based on available data, the classification criteria are not met
- E- Sensitizing effects:
- Respiratory: Based on available data, the classification criteria are not met
 - Skin: Based on available data, the classification criteria are not met
- F- Specific target organ toxicity (STOT) - single exposure: Based on available data, the classification criteria are not met
- G- Specific target organ toxicity (STOT)-repeated exposure:
- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met
 - Skin: Based on available data, the classification criteria are not met
- H- Aspiration hazard:
Based on available data, the classification criteria are not met
- OTHER INFORMATION:**
Non-applicable
- SPECIFIC TOXICOLOGY INFORMATION ON THE SUBSTANCES:**
Not available

11.2 INFORMATION ON OTHER HAZARDS:

Endocrine disrupting properties

ENDOCRINE-DISRUPTING PROPERTIES:

The product fails to meet the criteria.

OTHER INFORMATION

Non-applicable

SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available.

12.1 TOXICITY:

Not available

12.2 PERSISTENCE AND DEGRADABILITY:

Not available

12.3 BIOACCUMULATIVE POTENTIAL:

Not available

12.4 MOBILITY IN SOIL:

Not available

12.5 RESULTS OF PBT AND VPVB ASSESSMENT:

Product fails to meet PBT/vPvB criteria

12.6 ENDOCRINE DISRUPTING PROPERTIES:

Endocrine-disrupting properties: The product fails to meet the criteria.



SDS p.10 | Blitz Turf Backing

12.7 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS:

CODE	DESCRIPTION	Waste class (Regulation (EU) No 1357/2014)
	It is not possible to assign a specific code, as it depends on the intended use by the user	Non Dangerous

TYPE OF WASTE (REGULATION (EU) NO 1357/2014):

Non-applicable

WASTE MANAGEMENT (DISPOSAL AND EVALUATION):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. Waste should not be disposed of to drains. See paragraph 6.2.

REGULATIONS RELATED TO WASTE MANAGEMENT:

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

SECTION 14: TRANSPORT INFORMATION

TRANSPORT OF DANGEROUS GOODS BY LAND:

With regard to ADR 2021 and RID 2021

14.1 UN NUMBER OR ID NUMBER: Non-applicable

14.2 UN PROPER SHIPPING NAME: Non-applicable

14.3 TRANSPORT HAZARD CLASS(ES): Non-applicable

Labels: Non-applicable

14.4 PACKING GROUP: Non-applicable

14.5 ENVIRONMENTAL HAZARDS: No

14.6 SPECIAL PRECAUTIONS FOR USER



SDS p.11 | **Blitz Turf Backing**

Special regulations: Non-applicable

Tunnel restriction code: Non-applicable

Physico-Chemical properties: Non-applicable

Limited quantities: Non-applicable

14.7 Maritime transport in bulk according to IMO instruments: Non-applicable

TRANSPORT OF DANGEROUS GOODS BY SEA:

With regard to IMDG 40-20:

TRANSPORT OF DANGEROUS GOODS BY AIR:

With regard to IATA/ICAO 2022:

14.1 UN NUMBER OR ID NUMBER: Non-applicable

14.2 UN PROPER SHIPPING NAME: Non-applicable

14.3 TRANSPORT HAZARD CLASS(ES): Non-applicable

Labels:

14.4 PACKING GROUP: Non-applicable

14.5 ENVIRONMENTAL HAZARDS: NO

14.6 SPECIAL PRECAUTIONS FOR USER

Physico-Chemical properties: see section 9

14.7 MARITIME TRANSPORT IN BULK ACCORDING TO IMO INSTRUMENTS: Non-applicable

SECTION 15: REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE:

Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Non-applicable Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Non-applicable

Article 95, REGULATION (EU) No 528/2012: Non-applicable

REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

SEVESO III:

Non-applicable

LIMITATIONS TO COMMERCIALISATION AND THE USE OF CERTAIN DANGEROUS SUBSTANCES AND MIXTURES (ANNEX XVII REACH, ETC):

Non-applicable

SPECIFIC PROVISIONS IN TERMS OF PROTECTING PEOPLE OR THE ENVIRONMENT:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

OTHER LEGISLATION:



SDS p.12 | **Blitz Turf Backing**

The product could be affected by sectorial legislation

15.2 CHEMICAL SAFETY ASSESSMENT:

The supplier has not carried out evaluation of chemical safety.

SECTION 16: OTHER INFORMATION

LEGISLATION RELATED TO SAFETY DATA SHEETS:

The SDS shall be supplied in an official language of the country where the product is placed on the market. This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (COMMISSION REGULATION (EU) 2020/878).

MODIFICATIONS RELATED TO THE PREVIOUS SAFETY DATA SHEET WHICH CONCERNS THE WAYS OF MANAGING RISKS.:

Non-applicable

TEXTS OF THE LEGISLATIVE PHRASES MENTIONED IN SECTION 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

CLP REGULATION (EC) NO 1272/2008:

Non-applicable

CLASSIFICATION PROCEDURE:

Non-applicable

ADVICE RELATED TO TRAINING:

Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

PRINCIPAL BIBLIOGRAPHICAL SOURCES:

<http://echa.europa.eu> <http://eur-lex.europa.eu>

Abbreviations and acronyms:

ADR: European agreement concerning the international carriage of dangerous goods by road IMDG: International maritime dangerous goods code

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

COD: Chemical Oxygen Demand

BOD5: 5day biochemical oxygen demand

BCF: Bioconcentration factor

LD50: Lethal Dose 50

LC50: Lethal Concentration 50

EC50: Effective concentration 50

LogPOW: Octanolwater partition coefficient

Koc: Partition coefficient of organic carbon

UFI: unique formula identifier



SDS p.13 | **Blitz Turf Backing**

IARC: International Agency for Research on Cancer

Disclaimer of liability the information in this sds was obtained from sources which we believe are reliable. however, the information is provided without any warranty, express or implied, regarding its correctness. the conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. for this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. this sds was prepared and is to be used only for this product. if the product is used as a component in another product, this sds information may not be applicable



SDS | Blitz Turf Fibers

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 PLAE

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

PLAE Vertical Inc.

190 Etowah Industrial Ct.

Canton, GA 30114

United States

Non-emergency product information: (404) 645- 7900

1.4 EMERGENCY CONTACT NUMBER- (404) 645- 7900

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.	PERCENTAGE
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)



SDS p.2 | Blitz Turf Fibers

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 (CO₂), 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.



SDS p.3 | Blitz Turf Fibers

Self-contained breathing apparatus. Complete protective clothing. Material may re-ignite after fire is extinguished.

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



SDS p.4 | Blitz Turf Fibers

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 oC (> 662 °F) Nylon > 400 C (752 F).
Softening point/range:	PE: 90 – 100°C (194 – 212°F) PP: 140 - 160 oC (284 - 320 °F) Nylon: >300 C under prolonged exposure to heat
Melting point:	PE: 120-130°C (248 – 266 °F) PP: 160 - 170 o C (320 - 338 °F) Nylon: 220+ o 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



SDS p.5 | Blitz Turf Fibers

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
Serious eye damage/irritation:	Not classified
Respiratory or skin sensitization:	Not classified
Carcinogenicity:	Not classified
IARC group	3 – Not classifiable



SDS p.6 | Blitz Turf Fibers

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



SDS p.7 | Blitz Turf Fibers

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

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.