



# MATERIAL SAFETY DATA SHEET

## StrataGrid Soil Reinforcement

Strata Systems, Inc.  
380 Dahlonega Road, Suite 200  
Cumming, Georgia 30040

Emergency Telephone  
(770) 888-6688

Information Telephone  
(770) 888-6688

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### SECTION 1: PRODUCT IDENTIFICATION

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StrataGrid products (Microgrid, SG150, SG200, SG350, SG500, SG550, SG600, and SG700) are manufactured from polyester yarn, which is knitted into geogrid soil reinforcement prior to coating. These products are made from polyethylene terephthalate (PET) polymer (CAS# 25038-59-9) with one or more surface finishes applied at <2% total weight of the PET fiber weight and coated with a hot melt saturate (manufactures code BB-035).

Strata Systems, Inc. knits and coats the polyester yarn to manufacture StrataGrid soil reinforcement products.

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### SECTION 2: Hazardous Ingredients

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Polyester Terephthalate (PET) Yarn:

There are no known physical or health hazards associated with this product. In skin tests on human subjects, the fibers produced no irritation or sensitization. Processing the PET yarns may release and aerosolize the residual moisture and surface finishes. Heating the fibers may volatilize the finishes or produce a chemical change.

Hot Melt Saturate Coating:

Hot Melt Saturate is manufactured and applied to knitted PET yarn by Strata Systems, Inc.  
Hot Melt Saturate consists of 100% non-hazardous ingredients

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### SECTION 3: Hazards Identification

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The manufactured product as produced and when used under normal conditions of handling and use poses no health hazard.

Under normal conditions of handling and use

Inhalation: Not applicable  
Eye Contact: Product may cause irritation or injury due to mechanical action  
Skin Contact: Product is not likely to be hazardous by skin contact  
Ingestion: Product is likely to be hazardous by ingestion. Get medical attention in all cases.

Polyester Terephthalate (PET) Yarn:

Results from toxicity studies suggest that these yarns would pose no significant health problems under normal conditions of handling and use.

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### SECTION 4: First Aid Measures

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Customary personal hygiene measures, such as washing hands after working with the product or flushing eyes with water in event of contact, are recommended.

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### SECTION 5: Fire Fighting Measures

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Fire fighters should protect themselves from decomposition and combustion products that may include carbon monoxide and other toxic gases. Decomposition products from molten PET yarn may be subject to auto-ignition.

CO<sub>2</sub> is an appropriate extinguishing media.

Coating has a flash point of 550° F.

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**SECTION 6: Accidental Release Measures**

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Not Applicable to the product as produced and when used under normal conditions of handling and use.

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**SECTION 7: Handling and Storage**

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Customary personal hygiene measures, such as washing hands after working with the product, are recommended. Avoid contact with eyes and do not ingest.

It is recommended to store product in a cool dry place, optimum temperature 70° F – 90° F. Product should be protected from contamination by deleterious materials (mud, dirt, other debris) and ultra-violet exposure prior to installation.

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**SECTION 8: Exposure Controls and Personal Protection**

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Under normal conditions of handling and use of the product:

Ventilation	-	Non-Applicable
Protective Gloves	-	Non-Applicable
Eye Protection	-	Non-Applicable

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**SECTION 9: Physical and Chemical Properties**

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Polyester Terephthalate (PET) Yarn:

Melting Point	-	500° F	Solubility in Water-	insoluble
Density	-	1.38	Odor	- None

Hot Melt Saturate Coating:

Boiling Point	-	N/A	Appearance and odor	- Black and no odor
Vapor Pressure	-	N/A	Specific Gravity	- 0.92
Vapor Density	-	N/A	Melting Point	- 260° F – 280° F
Solubility in Water	-	N/A		

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**SECTION 10: Stability and Reactivity**

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Polyester Terephthalate (PET) Yarn is chemically stable and resistant to attack by oils, solvents, weak acids and weak alkalis. The Hot Melt Saturate Coatings is considered stable and hazardous polymerization cannot occur. Temperatures above 400° F cause coating (resin) degradation and decomposition or byproducts – carbon monoxide.

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**SECTION 11: Toxicological Information**

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Under normal conditions of handling and use the product poses no health risk.

Target Organs	-	None
Health Hazards (Acute and Chronic)	-	None

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**SECTION 12: Ecological Information**

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Not Applicable to the product as produced and when used under normal conditions of handling and use.

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**SECTION 13: Disposal Considerations**

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These products are not classified as hazardous waste under the Resource Conservation and Recovery Act and, unless prohibited by state or local regulation, can be disposed of in municipal landfills or incinerated.

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**SECTION 14: Transport Information**

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DOT Classification – Non-Hazardous

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**SECTION 15: Regulatory Information**

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This section is not applicable to the product.

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**SECTION 16: Other Information**

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

These are manufactured products consisting of two or more components. This Material Safety Data Sheet is provided as customer service information.