

SAFETY DATA SHEET (SDS)

PP WOVEN GEOTEXTILE OUTER WRAP (MECHANICAL PROTECTION)/ PP FIBER GEOTEXTILE

In accordance with GHS / OSHA Hazard Communication Standard (29 CFR 1910.1200)

SECTION 1: IDENTIFICATION

Product Name	PP Woven Geotextile Outer Wrap
Material Type	Enhanced woven polyolefin (polypropylene) fabric/PP fiber geotextile.
Recommended Use	Mechanical protection for underground coated structures (pipelines, tanks, fittings). Protection against impact, indentation, and plant root intrusion.
Key Features	Non-adhesive, High permeability, Cathodic Protection (CP) compatible.
Manufacturer	Shandong Quanmin Plastic Co., Ltd.
Address	North of Shengli Oil Extraction Plant Tuo Si Joint Station, Dongying City, Shandong Province, China.
Emergency call	+86-546-8740309

SECTION 2: HAZARDS IDENTIFICATION

GHS Classification: Not classified as hazardous. This product is an "Article" as defined by OSHA and REACH regulations. It does not pose a chemical hazard under normal conditions of use.

Physical Hazards: None. The material is a stable, non-reactive solid fabric.

Environmental Hazards: Inert. High permeability ensures natural water flow without affecting soil chemistry or cathodic protection systems.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS No.	Weight (%)
Polypropylene (PP)	9003-07-0	> 97%

Component	CAS No.	Weight (%)
UV Stabilizers / Pigments	Proprietary	< 3%

SECTION 4: FIRST AID MEASURES

- **Skin Contact:** No irritation expected. In case of mechanical abrasion from fabric edges, wash with soap and water.
- **Eye Contact:** If dust or particles from cutting enter the eye, flush with water for 15 minutes.
- **Inhalation:** Not a relevant route of exposure for solid fabric.
- **Ingestion:** Not toxic. If swallowed, seek medical advice as a precaution.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing Media: Water spray, Foam, Dry Chemical, Carbon Dioxide (CO₂).

Specific Hazards: Combustible solid. When burned, it may release Carbon Monoxide, Carbon Dioxide, and low molecular weight hydrocarbons.

Firefighting PPE: Firefighters should wear Self-Contained Breathing Apparatus (SCBA) and full protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: None required for solid rolls.

Cleanup Method: As a solid textile material, waste can be picked up and placed in a container for recycling or disposal. Prevent loose scraps from becoming a tripping hazard.

SECTION 7: HANDLING AND STORAGE

Handling: No special technical measures required. Use proper lifting techniques for heavy rolls.

Storage: Store in a dry area. While UV stabilized, it is recommended to store away from prolonged direct sunlight to maintain maximum long-term performance. Keep away from open flames and strong oxidizing agents.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits	None established for solid fabric.
Engineering Controls	No special ventilation required.

Hand Protection	General work gloves are recommended to prevent mechanical abrasion during handling.
Eye Protection	Safety glasses recommended when cutting or installing the material.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid Woven Fabric	Color	Typically White / Black
Odor	Odorless	Melting Point	160°C - 170°C
Water Solubility	Insoluble	Permeability	High / Free-flowing
Adhesion	Non-adhesive	Specific Gravity	0.90 - 0.92 g/cm ³

SECTION 10: STABILITY AND REACTIVITY

Stability: Chemically stable. Does not hardens or become brittle under underground conditions.

Incompatibility: Avoid contact with strong oxidizing agents and aromatic solvents at high temperatures.

CP Compatibility: Does not shield cathodic protection currents due to high permeability.

SECTION 11: TOXICOLOGICAL INFORMATION

Comprehensive Overview :The PP woven geotextile outer wrap is a solid woven material composed of high-molecular-weight polymer (polypropylene). Under conventional industrial operations and room temperature conditions, it exhibits biocompatibility and poses no risk of acute toxicity.

SECTION 12: ECOLOGICAL INFORMATION

Eco-toxicity: The product is chemically inert and non-toxic. It does not leach harmful substances into the soil or groundwater.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal: The material is 100% recyclable (Polypropylene Category 5). Dispose of or recycle in accordance with local industrial waste regulations.

SECTION 14: TRANSPORT INFORMATION

DOT / IMDG / IATA: NOT REGULATED. This product is not classified as a dangerous good for any mode of transport.

SECTION 15: REGULATORY INFORMATION

- **TSCA:** All components are listed or exempt.
- **REACH:** Product is an article; no registration required. Contains no SVHC substances.
- **Industry Use:** Approved for Oil & Gas pipelines, municipal facilities, and complex underground installations.

SECTION 16: OTHER INFORMATION

HMIS Rating: Health: 0 | Flammability: 1 | Physical Hazard: 0

Prepared By: Technical Quality Department of Shandong Quanmin Plastic Co., Ltd.

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This document is intended to provide a brief summary of our knowledge and guidance regarding the use of this material. It is not meant to be an all-inclusive document on worldwide hazard communication regulations.