

# SAFETY DATA SHEET (SDS)

## Polyethylene (PE) Outer Wrap Tape - Butyl Adhesive System

According to GHS (Rev. 9), ISO 11014-1, and OSHA 29 CFR 1910.1200

### SECTION 1: IDENTIFICATION OF THE PRODUCT AND COMPANY

<b>Product Name</b>	Polyethylene Outer Wrap Tape (PE Outer Tape)
<b>Trade Name/Synonyms</b>	Outerlayer Tape, Mechanical Protection Tape, PE Protection Wrap
<b>Recommended Use</b>	The outer layer of a multi-layer cold-applied tape system for the mechanical protection of buried or submerged steel pipelines. Applied over the inner anti-corrosion tape.
<b>Manufacturer</b>	Shandong Quanmin Plastic Co., Ltd.
<b>Address</b>	North of Shengli Oil Extraction Plant Tuo Si Joint Station, Dongying City, Shandong Province, China.
<b>Emergency Contact</b>	+86-546-8740309

### SECTION 2: HAZARDS IDENTIFICATION

GHS CLASSIFICATION: NOT CLASSIFIED AS HAZARDOUS.

**Note:** This product is classified as an "Article" according to international standards. It is a manufactured item which does not release or otherwise result in exposure to a hazardous chemical under normal conditions of use.

**Physical Hazards:** Tape rolls are heavy; use proper lifting techniques. The PE backing can be slippery when wet or dusty.

### SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight %
Polyethylene (Backing)	9002-88-4	55% - 70%
Butyl Rubber (Adhesive)	9003-27-4	20% - 35%
Tackifying Resins	Proprietary	5% - 10%
Carbon Black (Colorant/UV Stabilizer)	1333-86-4	1% - 3%

#### SECTION 4: FIRST AID MEASURES

- **Skin Contact:** No adverse effects expected. Wash adhesive residue with soap and water.
- **Eye Contact:** Physical contact only. Flush with water if dust particles enter the eyes.
- **Inhalation:** Not a probable route of exposure under normal conditions.
- **Ingestion:** Not intended for consumption. If ingested, seek medical attention.

#### SECTION 5: FIRE-FIGHTING MEASURES

**Flash Point:** > 300 °C (Backing)

**Extinguishing Media:** Water spray, Dry Chemical, Foam, Carbon Dioxide (CO<sub>2</sub>).

**Specific Hazards:** PE backing will melt and burn when exposed to flame. Combustion may produce carbon monoxide, carbon dioxide, and low-molecular-weight hydrocarbons.

**Firefighting PPE:** Self-contained breathing apparatus (SCBA) is recommended for indoor fires.

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

- **Personal Precautions:** Ensure walking surfaces are free of tape scraps to prevent slipping.
- **Environmental Precautions:** Prevent waste material from entering drainage systems or natural water bodies.
- **Methods for Cleanup:** Pick up manually. Dispose of as solid industrial waste.

#### SECTION 7: HANDLING AND STORAGE

**Handling:** Wear standard work gloves. Ensure proper tensioning during application to avoid physical strain.

**Storage:** Store in original packaging, upright (on ends). Store in a dry, well-ventilated area away from direct sunlight and heat sources. Recommended storage temperature: **-10°C to +50 °C**

## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

**Ventilation:** General ambient ventilation is adequate.

### Personal Protective Equipment (PPE):

- **Hands:** General purpose work gloves (cotton or nitrile).
- **Eyes:** Safety glasses recommended during pipeline wrapping operations.
- **Skin:** Standard industrial workwear.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid Tape Roll
Appearance / Color	White or Black (usually) plastic film with grey/black adhesive
Odor	Odourless / Negligible rubber odor
Solubility in Water	Insoluble
Density	0.95 - 1.20 g/cm <sup>3</sup>
Softening Point	> 100 °C

## SECTION 10: STABILITY AND REACTIVITY

**Stability:** Chemically stable under normal conditions.

**Reactivity:** Not reactive.

**Conditions to Avoid:** Temperatures exceeding 200°C, open flames, and sparks.

**Incompatible Materials:** Strong oxidizing agents and liquid hydrocarbons (which can dissolve/soften the butyl adhesive).

## SECTION 11: TOXICOLOGICAL INFORMATION

**Acute Toxicity:** None known.

**Sensitization:** Rare, but butyl rubber or resins may cause skin sensitization in hypersensitive individuals.

**Carcinogenicity:** Carbon Black is fully encapsulated in the polymer and is not considered a hazard in this form.

## SECTION 12: ECOLOGICAL INFORMATION

**Persistence/Degradability:** The product is not biodegradable and is designed for long-term (30+ years) underground service.

**Ecotoxicity:** No known harmful effects on the aquatic or soil environment.

## SECTION 13: DISPOSAL CONSIDERATIONS

**Waste Disposal:** Not classified as hazardous waste. Dispose of in accordance with local/national regulations (usually industrial landfill).

**Packaging:** Cardboard cores and PE wrapping can be recycled.

## SECTION 14: TRANSPORT INFORMATION

**DOT (USA):** Not Regulated.

**IMDG (Ocean):** Not Classified as Dangerous Goods.

**IATA (Air):** Not Classified as Dangerous Goods.

**Note:** Safe for international shipment via all modes of transport.

## SECTION 15: REGULATORY INFORMATION

This product meets the requirements for pipeline protection as specified in:

- **ISO 21809-3:** External coatings for buried or submerged pipelines.
- **AWWA C214:** Tape Coating Systems for Steel Water Pipelines.
- **EN 12068:** External organic coatings for the corrosion protection of buried or immersed steel pipelines.

Components are compliant with REACH and TSCA inventory requirements.

## SECTION 16: OTHER INFORMATION

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

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