

SAFETY DATA SHEET (SDS)

Polyethylene (PE) Joint Tape - Butyl Adhesive System

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

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Polyethylene Seam Tape (PE Joint Wrap/Sealing tape)

Technical Name: Cold-Applied Polymeric Tape for Field Joint Coating

Recommended Use: Corrosion protection for girth welds (field joints), valves, and fittings on underground steel pipelines. Compatible with 3PE, FBE, and Coal Tar Enamel factory coatings.

Manufacturer: Shandong Quanmin Plastic Co., Ltd.

Address: North of Shengli Oil Extraction Plant Tuo Si Joint Station, Dongying City, Shandong Province, China.

Emergency Contact: +86-546-8740309

SECTION 2: HAZARDS IDENTIFICATION

GHS CLASSIFICATION: NOT CLASSIFIED AS HAZARDOUS.

Article Declaration: This product is defined as an "Article" according to REACH and GHS criteria. It is a manufactured item which does not pose a chemical hazard under normal conditions of application and burial.

Physical Hazards: Tape rolls are heavy and high-tension application can lead to physical strain. Ensure proper lifting and mechanical wrapping techniques.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight %
High/Low Density Polyethylene (Backing)	9002-88-4	50% - 65%
Butyl Rubber (Adhesive)	9003-27-4	30% - 45%

Chemical Name	CAS No.	Weight %
Carbon Black (UV & Heat Stabilizer)	1333-86-4	1% - 3%
Antioxidants/Process Aids	Proprietary	< 2%

SECTION 4: FIRST AID MEASURES

- **Skin Contact:** No irritation expected. If adhesive sticks to skin, remove with mineral oil or vegetable oil, then wash with soap and water.
- **Eye Contact:** Physical contact only. Flush with water if particles enter eyes.
- **Inhalation:** Not applicable for solid tape products.
- **Ingestion:** Not a likely route. If swallowed, seek medical attention.

SECTION 5: FIRE-FIGHTING MEASURES

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

Specific Hazards: PE backing melts at approx. 105°C-125°C. In a fire, it releases thick smoke, Carbon Monoxide (CO), and Carbon Dioxide (CO₂).

Firefighting PPE: Use self-contained breathing apparatus (SCBA) for indoor or warehouse 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 work gloves to maintain grip and protect against adhesive residue. Use caution when applying high tension to the tape to prevent "snap-back".

Storage: Store rolls upright on their ends to prevent "telescoping" or flat spots. Keep in a cool, dry area away from direct sunlight and ignition sources. Optimal storage temperature: **+10°C to +45 °C**.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

- **Engineering Controls:** None required for field application.
- **Hand Protection:** Wear abrasion-resistant gloves (e.g., leather or nitrile-coated cotton).
- **Eye Protection:** Standard safety glasses are recommended.
- **Skin Protection:** Standard industrial workwear.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid Tape Roll
Appearance	Black or White plastic film with grey/black adhesive
Odor	Negligible
Solubility in Water	Insoluble
Adhesive Softening Point	> 90 °C (ASTM E28)
Elongation at Break	> 300% (Ensures conformability to weld beads)

SECTION 10: STABILITY AND REACTIVITY

Stable under recommended storage and burial conditions. Avoid contact with strong organic solvents (e.g., Toluene, Xylene) which may dissolve 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

Dispose of scrap tape and release liners as non-hazardous industrial solid waste in accordance with local environmental regulations.

SECTION 14: TRANSPORT INFORMATION

DOT / IMDG / IATA: NOT REGULATED.

This product is not classified as "Dangerous Goods" for any mode of international transport. No special labeling required for shipping.

SECTION 15: REGULATORY INFORMATION

This product is designed to meet international pipeline engineering standards including:

- **ISO 21809-3 (Type 1A):** Field joint coatings for buried pipelines.
- **EN 12068:** Cathodic protection - External organic coatings.
- **AWWA C209:** Cold-Applied Tape Coatings for Special Sections, Connections, and Fittings.

Complies with REACH (SVHC) and RoHS directives. All ingredients are listed on the TSCA (USA) and IECSC (China) inventories.

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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Disclaimer: The information in this Safety Data Sheet is provided for the purpose of health, safety, and environmental protection. It does not constitute a product specification or a guarantee of performance in specific soil conditions.