

# SAFETY DATA SHEET (SDS)

In accordance with GHS (Globally Harmonized System) and ISO 11014-1

**Product: 2-Ply Inner Wrap PE Tape**

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

**Product Name:** Polyethylene (PE) Inner Layer Anticorrosion Tape

**Alternative Name:** Innerwrap Tape, Cold-Applied Tape (Inner Layer)

**Recommended Use:** Primary anti-corrosion protective coating for buried or underwater steel pipelines. It must be used in conjunction with solvent-based butyl primer and outer protective wrapping materials.

**Manufacturer:** Shandong Quanmin Plastic Co., Ltd.

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

**Emergency Phone:** +86-546-8740309

## SECTION 2: HAZARDS IDENTIFICATION

**GHS Classification:** Not classified as hazardous under normal industrial use. This product is defined as an "Article" according to OSHA and international standards.

**Physical Hazards:** None. The product is a solid roll.

**Health Hazards:**

- **Skin Contact:** The adhesive is highly tacky. Frequent or prolonged contact may cause minor irritation or "sticking" discomfort for sensitive skin.
- **Eye Contact:** Mechanical irritation only.

**Environmental Hazards:** Non-biodegradable solid.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

The inner layer tape typically features a higher ratio of butyl rubber adhesive to ensure maximum bonding with the pipe surface/primer.

Component	CAS No.	Weight (%)	Role
Polyethylene Backing	9002-88-4	40% - 50%	Carrier Film
Butyl Rubber Adhesive	9003-31-0	45% - 55%	Corrosion Barrier
Tackifying Resins	64742-16-1	3% - 7%	Adhesion Promoter
Carbon Black	1333-86-4	1% - 2%	UV/Color Stabilizer
Antioxidants	Proprietary	< 0.5%	Process Stabilizer

#### SECTION 4: FIRST AID MEASURES

- **Skin Contact:** If adhesive residue remains on skin, use mineral oil, baby oil, or a specialized citrus-based hand cleaner. Do not use harsh chemical solvents. Wash with soap and water.
- **Eye Contact:** Do not rub eyes. Flush with water for 15 minutes. Seek medical attention if irritation persists.
- **Inhalation:** (Under fire conditions only) Move to fresh air. If breathing is difficult, seek medical help.
- **Ingestion:** Unlikely. If swallowed, do not induce vomiting and consult a physician.

#### SECTION 5: FIRE-FIGHTING MEASURES

**Extinguishing Media:** Water spray, Dry chemical, CO2, or Foam.

**Specific Hazards:** Combustion will release thick black smoke, carbon monoxide, carbon dioxide, and various hydrocarbons.

**Protection for Firefighters:** Wear Self-Contained Breathing Apparatus (SCBA) and full protective clothing.

#### 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 prevent adhesive transfer to hands. Ensure the pipe surface is properly primed before application for maximum performance.

**Storage:**

- Store in original packaging, away from heat and direct sunlight.
- Store at temperatures between -5 °C and +45°C.
- Rolls should be stored **vertically (upright)** to prevent "telescoping" or deformation of the adhesive layer.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls:** General ventilation is adequate for outdoor pipeline application.

**Personal Protective Equipment (PPE):**

- **Hand Protection:** Use cotton or nitrile-coated gloves.
- **Eye Protection:** Safety glasses with side shields recommended.
- **Respiratory Protection:** Not required for cold-application.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Solid tape on a roll
<b>Color</b>	Primarily Black (Standard for inner layer)
<b>Odor</b>	Slight rubber/hydrocarbon odor
<b>Water Solubility</b>	Insoluble
<b>Density</b>	1.05 - 1.20 g/cm <sup>3</sup>
<b>Peel Adhesion (to Primed Steel)</b>	High (typically > 20 N/cm as per ISO 21809-3)
<b>Flash Point</b>	> 250°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/IMDG/IATA/ADR:** Not Regulated.

**Hazard Class:** None.

**Note:** Not classified as dangerous goods for land, sea, or air transport.

## SECTION 15: REGULATORY INFORMATION

**Compliance Standards:**

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- **ISO 21809-3:** Petroleum and natural gas industries - Cathodic protection/Coatings.
- **EN 12068:** External organic coatings for the corrosion protection of buried steel pipelines.
- **AWWA C209:** Cold-Applied Tape Coatings for the Exterior of Special Sections, Connections, and Fittings.

**TSCA:** All components are listed.

**REACH:** Does not contain any Substances of Very High Concern (SVHC).

## SECTION 16: OTHER INFORMATION

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

**Note to User:** This SDS is specifically for the Inner Layer tape. For mechanical protection, an Outer Layer tape should be applied over this product.

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

**Date:** 2025-10-26

*Disclaimer: The information provided in this SDS is correct to the best of our knowledge at the date of its publication. It is designed only as a guidance for safe handling, use, processing, storage, and disposal and is not to be considered a warranty or quality specification.*