

# SAFETY DATA SHEET (SDS)

**Status:** According to GHS and OSHA Hazard Communication Standard 29 CFR 1910.1200

**Issue Date:** May 22, 2024

## 1. IDENTIFICATION OF THE SUBSTANCE AND COMPANY

<b>Product Name</b>	<b>Wraparound Sleeves PAS</b> (Visco-Elastic Butyl Heat Shrinkable Wrap-around Sleeve)
<b>Composition</b>	Radiation Cross-linked Modified PE Backing with Specially Formulated Butyl Adhesive.
<b>Recommended Use</b>	Corrosion protection for girth welds on new onshore/offshore pipelines; Recoating (rehabilitation) of long pipe sections and large radius bends.
<b>Application Method</b>	Spiral wrapping or wrap-around with heat-activated shrinkage.
<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 Phone</b>	+86-546-8740309

## 2. HAZARDS IDENTIFICATION

**Classification:** This product is considered an "Article" under GHS and is not hazardous in its solid form at ambient temperature.

### POTENTIAL HAZARDS DURING INSTALLATION:

- Thermal Burns:** Application requires a propane torch. Molten adhesive and hot backing (120°C+) can cause severe skin burns.
- Inhalation:** Overheating may release decomposition products such as carbon monoxide and irritating organic vapors.
- Physical:** The butyl adhesive is highly tacky (visco-elastic). Prolonged skin contact may cause minor irritation or "sticky" residues.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS Number	Weight %
Radiation Cross-linked Polyethylene	25087-34-7	50% - 65%
Butyl Rubber Based Adhesive (Mastic)	Proprietary Blend	35% - 55%
Carbon Black (Encapsulated)	1333-86-4	1% - 5%
Antioxidants/UV Stabilizers	Trade Secret	< 2%

### 4. FIRST AID MEASURES

- **Skin Contact (Thermal):** Immediately drench the affected area with cold water. **DO NOT** attempt to peel the visco-elastic butyl adhesive from the skin once cooled; seek medical help for professional removal and burn treatment.
- **Eye Contact:** Flush eyes with water for 15 minutes. If irritation from fumes occurs, seek medical attention.
- **Inhalation:** If affected by smoke from overheating, move to a well-ventilated area with fresh air.
- **Ingestion:** Not expected to be a route of exposure.

### 5. FIRE-FIGHTING MEASURES

**Extinguishing Media:** Water spray, Dry Chemical, CO<sub>2</sub>, or Foam.

**Hazardous Combustion Products:** Dense black smoke, Carbon Monoxide (CO), Carbon Dioxide (CO<sub>2</sub>), and various hydrocarbons.

**Firefighting PPE:** Self-contained breathing apparatus (SCBA) and full protective clothing are required.

### 6. ACCIDENTAL RELEASE MEASURES

The product is a solid roll. No special spill procedures. For scrap material, collect and place in a suitable container for disposal as solid industrial waste.

### 7. HANDLING AND STORAGE

- **Handling:** Avoid prolonged skin contact with the adhesive side. Use appropriate PPE when using open flames for shrinkage.
- **Storage:** Store in a cool, dry place (5°C to 35°C). Keep away from direct sunlight and heat sources. **Important:** Due to the visco-elastic nature of the butyl adhesive, rolls should be stored upright to prevent deformation and "oozing" at the edges.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Ventilation</b>	General ventilation is typically sufficient. Forced ventilation required in confined spaces (e.g., offshore moonpools or deep trenches).
<b>Gloves</b>	<b>Mandatory:</b> Heavy-duty heat-resistant gloves during installation.
<b>Eye Protection</b>	Safety goggles or face shield during torch application.
<b>Skin Protection</b>	Long-sleeved clothing to protect against accidental contact with hot pipe or molten mastic.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	Solid tape/sleeve	<b>Color</b>	Black
<b>Odor</b>	Negligible	<b>Shrink Temp</b>	> 125°C (257°F)
<b>Solubility (Water)</b>	Insoluble	<b>Adhesive Type</b>	Visco-elastic Mastic
<b>Softening Point</b>	~95°C (Adhesive)	<b>Specific Gravity</b>	1.10 - 1.30 g/cm <sup>3</sup>

## 10. STABILITY AND REACTIVITY

**Stability:** Stable under normal conditions.

**Conditions to Avoid:** Excessive heat (overheating with torch > 250°C) which causes polymer degradation.

**Incompatible Materials:** Strong oxidizers and certain organic solvents which may dissolve the butyl adhesive.

## 11. TOXICOLOGICAL INFORMATION

Non-toxic. The components are polymer-bound. No known carcinogenicity or reproductive toxicity. Butyl rubber is generally considered non-sensitizing.

## 12. ECOLOGICAL INFORMATION

Product is environmentally inert. It is not biodegradable and will not leach harmful substances into the soil or groundwater in onshore/offshore burial conditions.

## 13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with local industrial waste regulations. The PE backing is technically recyclable, but the butyl adhesive makes separation difficult; landfill is the common disposal route.

## 14. TRANSPORT INFORMATION

**DOT / IMDG / IATA:** Not regulated. Not classified as a Dangerous Good for land, sea, or air transport.

## 15. REGULATORY INFORMATION

- **TSCA:** All components are listed on the TSCA Inventory.
- **REACH:** Product does not contain SVHC (Substances of Very High Concern).
- **ISO 21809-3:** Material complies with relevant coating standards for pipeline protection.

## 16. OTHER INFORMATION

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

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

**Statement :** *The information provided is based on our current knowledge and intended to describe the product for the purposes of health, safety, and environmental requirements only. It should not be taken as a guarantee of any specific property of the product.*