SAFETY DATA SHEET (SDS)

Conforms to GHS and OSHA Hazard Communication Standard (29 CFR 1910.1200)

Product Code: HSS-3L-WS
Revision Date: May 22, 2025

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND COMPANY

Product Name	**3Laye-Primercontaining Wraparound Sleeves** (High Shear Wrap-around Heat Shrinkable Sleeve)
Description	Radiation Cross-linked High-Density Polyethylene (HDPE) backing coated with High Shear Strength Copolymer Hot Melt Adhesive (HMA).
Intended Use	For corrosion protection of circumferential welds in water, gas, and steel pipeline transportation systems. Must be used in conjunction with solvent-free liquid epoxy primer.
Application Area	Field joints, repair of pipe coatings, and offshore/onshore pipeline infrastructure.
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

2. HAZARDS IDENTIFICATION

GHS Classification: This product is defined as an "Article" under GHS and OSHA standards. No significant health or environmental hazards are expected under normal solid-state conditions.

SAFETY WARNINGS DURING INSTALLATION:

- **Thermal Hazards:** The sleeve and adhesive reach temperatures of 120°C - 200°C during torch application. Contact with molten material will cause severe thermal burns.
- **Respiratory Irritation:** Overheating may cause thermal degradation, releasing irritating fumes (CO, CO2, and organic acids).
- **Primer Synergy:** This SDS covers the sleeve only. Refer to the specific Epoxy Primer SDS for hazards related to chemical sensitization and liquid handling.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Weight (%)
Radiation Cross-linked HDPE Backing	25087-34-7 / 9002-88-4	60% - 75%
Copolymer Hot Melt Adhesive (HMA)	Proprietary (Ethylene-based)	25% - 40%
Carbon Black (UV Stabilizer)	1333-86-4	1% - 3%
High Shear Additives/Tackifiers	Trade Secret	< 5%

4. FIRST AID MEASURES

- **Skin Contact (Thermal Burns):** If molten adhesive contacts skin, immediately flush with cold water for at least 15 minutes. **DO NOT** attempt to pull solidified material off the skin. Cover with sterile dressing and seek immediate medical attention.
- **Inhalation:** If fumes from overheating cause distress, move to fresh air. If breathing is difficult, give oxygen and call a physician.
- **Eye Contact:** Flush with water for 15 minutes. If irritation persists, seek medical advice.
- **Ingestion:** Not a probable route of exposure.

5. FIRE-FIGHTING MEASURES

Extinguishing Media: Water spray, carbon dioxide, dry chemical, or foam.

Decomposition Products: Combustion may produce thick black smoke containing carbon monoxide, carbon dioxide, and various hydrocarbons.

Protection: Firefighters must wear self-contained breathing apparatus (SCBA) and full protective equipment.

6. ACCIDENTAL RELEASE MEASURES

This product is a solid article. Sweep up or collect scrap material and dispose of as industrial waste. No environmental spill risk under normal conditions.

7. HANDLING AND STORAGE

- **Handling:** Wear heat-resistant gloves during installation. Ensure the pipeline surface is dry and free of contaminants before applying primer and sleeve.
- **Storage:** Store in a cool, dry, well-ventilated warehouse. Keep away from direct sunlight, UV radiation, and temperatures exceeding 45°C (113°F). Store upright to prevent flattening of the adhesive layers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation	Natural or local exhaust ventilation is required when heating in confined spaces.
Hand Protection	**High-Temperature Resistant Gloves** (Leather or Kevlar) are mandatory during heat application.
Eye Protection	Safety glasses with side shields or face shields during torch use.
Body Protection	Flame-retardant long-sleeved workwear.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid wrap-around tape/sheet	**Color**	Black
Odor	Odorless at ambient	**Adhesive Softening Point**	90°C - 110°C
Shrink Temperature	120°C - 150°C	**Specific Gravity**	0.95 - 1.20 g/cm³
Solubility	Insoluble in water	**Shear Strength**	High (meets ISO 21809-3)

10. STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions.

Reactivity: Reacts with strong oxidizing agents. High-shear HMA is designed for permanent adhesion once activated by heat.

Hazardous Decomposition: At temperatures >250°C, polymer degradation may occur.

11. TOXICOLOGICAL INFORMATION

The product is an inert polymer structure. Carbon black is fully encapsulated and does not present an inhalation hazard. No known carcinogenicity or reproductive toxicity.

12. ECOLOGICAL INFORMATION

Not biodegradable. Chemically inert in soil and water. The product does not contain lead, mercury, or other heavy metals regulated under RoHS.

13. DISPOSAL CONSIDERATIONS

Can be disposed of as non-hazardous solid industrial waste or incinerated in a licensed facility. Follow all local and national regulations.

14. TRANSPORT INFORMATION

DOT / IMDG / IATA: Not regulated as a dangerous good. No special labeling required for transport.

15. REGULATORY INFORMATION

- **TSCA:** All components are listed or exempt.
- **REACH:** Does not contain Substances of Very High Concern (SVHC).
- **Standard Compliance:** Designed to meet EN 12068 and ISO 21809-3 coating standards.

16. OTHER INFORMATION

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

Technical Focus:

- High Shear Strength resistance to soil stress.
- Compared to conventional butyl adhesives, HMA (hot-melt adhesive) requires higher application temperatures and necessitates operator training.

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

Statement :The information provided in this Safety Data Sheet (SDS) is based on our current understanding. It is intended solely to describe the characteristics of the product with respect to health, safety, and environmental requirements and should not be construed as a guarantee of any specific performance of the product.