

# SAFETY DATA SHEET (SDS)

**Product:** Pipeline Repair Melt Stick  
**Issue Date:** May 2024

## 1. IDENTIFICATION OF THE SUBSTANCE AND COMPANY

<b>Product Name</b>	Pipeline Repair Melt Stick / Repair the pipeline coating Melt Sticks (MS)
<b>Product Type</b>	Polyethylene copolymer-based heat-activated adhesive stick.
<b>Primary Use</b>	Repair of scratches, impact marks, bubbles, and test incisions on buried/overhead steel pipe PE coatings and insulation jackets.
<b>Repair Capacity</b>	Suitable for minor damage and pits up to <b>10mm x 10mm (0.39" x 0.39")</b> .
<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

**GHS Classification:** Not classified as hazardous at ambient temperature.

**Primary Hazard during Use:**

- **Thermal Burns:** Molten material (melted by flame) can cause severe burns upon skin contact.
- **Inhalation:** Fumes generated during overheating may cause respiratory irritation.

**Signal Word:** Warning (Only applicable during heat application)

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Concentration (%)
Modified Polyethylene Copolymer	24937-78-8 / 9002-88-4	70% - 85%

Chemical Name	CAS Number	Concentration (%)
High-Performance Tackifying Resins	Proprietary Blend	10% - 20%
Carbon Black (Encapsulated)	1333-86-4	1% - 5%
Antioxidants / UV Stabilizers	N/A	< 2%

## 4. FIRST AID MEASURES

### Contact with Molten Material

Immediately drench the affected skin with cold water for at least 15 minutes. **DO NOT** attempt to peel the solidified plastic from the skin as it may tear the flesh. Seek professional medical attention immediately for thermal burns.

### Inhalation

If affected by fumes from overheating, move to fresh air. If coughing or difficulty breathing persists, consult a physician.

### Eye Contact

In case of contact with dust or small particles, flush eyes with water. If molten material enters the eye, seek emergency medical help.

## 5. FIRE-FIGHTING MEASURES

- **Extinguishing Media:** Use water spray, dry chemical, carbon dioxide (CO<sub>2</sub>), or foam.
- **Specific Hazards:** Material will burn if exposed to open flame. Combustion may release carbon monoxide, carbon dioxide, and irritating smoke.
- **Firefighter Protection:** Wear Self-Contained Breathing Apparatus (SCBA) and full protective clothing.

## 6. ACCIDENTAL RELEASE MEASURES

Product is a solid stick. If dropped, simply pick up and store in a clean container for use. Prevent large quantities of waste from entering drains or water systems. Disposal should follow local industrial waste regulations.

## 7. HANDLING AND STORAGE

- **Handling:** Use only in well-ventilated areas.
- **Mandatory:** Wear heat-resistant gloves when using a torch to melt the stick. Avoid direct contact with the molten pool.
- **Safe Use:** Do not overheat. If the material begins to char or release thick black smoke, reduce the heat.
- **Storage:** Store in a cool, dry place away from direct sunlight and heat sources. Keep away from oxidizing agents.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Ventilation</b>	General or local exhaust ventilation is recommended during heat application.
<b>Hand Protection</b>	<b>Insulated Heat-Resistant Gloves</b> are required during application.
<b>Eye Protection</b>	Safety goggles or face shield recommended when using open flame.
<b>Skin Protection</b>	Long-sleeved work clothing to protect against accidental drips.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	Solid Stick	<b>Color</b>	Black
<b>Odor</b>	Odorless (at RT)	<b>Solubility</b>	Insoluble in water
<b>Softening Point</b>	90°C - 110°C	<b>Specific Gravity</b>	0.92 - 0.98 g/cm <sup>3</sup>
<b>Flash Point</b>	> 250°C	<b>Vapor Pressure</b>	Negligible

## 10. STABILITY AND REACTIVITY

**Reactivity:** Stable under normal conditions.

**Conditions to Avoid:** Temperatures exceeding 200°C for prolonged periods to prevent thermal degradation.

**Hazardous Decomposition:** At high temperatures, may produce low-molecular-weight hydrocarbons and organic acids.

## 11. TOXICOLOGICAL INFORMATION

No known acute toxicity. The product is chemically inert. Carbon black is fully bound within the polymer matrix and does not present an inhalation hazard under normal conditions.

## 12. ECOLOGICAL INFORMATION

This product is a non-biodegradable plastic. It is not considered toxic to aquatic life, but should be prevented from entering the environment as it persists as plastic waste.

## 13. DISPOSAL CONSIDERATIONS

Dispose of as non-hazardous industrial solid waste in accordance with local, state, and federal regulations. Can be recycled where facilities for PE-based adhesives exist.

## 14. TRANSPORT INFORMATION

**DOT / IMDG / IATA:** Not regulated as a dangerous good for transportation.

## 15. REGULATORY INFORMATION

- **TSCA:** All ingredients are listed on the TSCA inventory.
- **REACH:** Contains no substances of very high concern (SVHC) > 0.1%.
- **RoHS:** Compliant.

## 16. OTHER INFORMATION

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

**Technical Limitation Warning:** This melt stick is intended for minor repairs only. Do not use for coating holidays or damage exceeding **10mm x 10mm**. For larger areas, a radiation cross-linked repair patch must be used.

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

***Disclaimer:** The information provided in this SDS is based on our current knowledge. It is the user's responsibility to ensure safe handling conditions and to follow all manufacturer application instructions. We assume no liability for damages resulting from the use of this information or the product.*