

SAFETY DATA SHEET (SDS)

Anti-Corrosion Primer Masterbatch (Solid Concentrate) Compliant with GHS (Rev. 9), ISO 11014, and OSHA 29 CFR 1910.1200

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Corrosion Resistant Primer Masterbatch

Technical Name: Solid Polymer-Resin Concentrate for Pipeline Primers

Recommended Use: Used as a concentrated precursor for producing liquid anti-corrosion primers on-site. Designed to be dissolved in organic solvents (e.g., gasoline, toluene) to provide an adhesion-promoting layer between steel pipe surfaces and anti-corrosion tapes.

Transport Advantage: This is a 100% solid, non-liquid material. It is designed to facilitate safe, economical international shipping by avoiding "Flammable Liquid" hazardous classifications.

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 IN SOLID FORM.

Hazard Statement: This product is a non-liquid solid. It does not present a fire or health hazard in its masterbatch form.

Note: Once dissolved in solvents by the user, the resulting liquid primer will take on the hazards of the solvent used (e.g., Flammability).

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS No.	Weight %
Butyl Rubber / Oxidized Bitumen	9003-27-4 / 64742-93-4	40% - 60%
Tackifying Resins (Hydrocarbon Resin)	68131-77-1	30% - 45%

Component	CAS No.	Weight %
Stabilizers & Antioxidants	Proprietary	1% - 3%
Carbon Black (if applicable)	1333-86-4	< 5%

SECTION 4: FIRST AID MEASURES

Inhalation: Move the exposed person to fresh air. If irritation persists or if breathing is difficult, seek medical attention. If fumes from overheated material are inhaled, remove to fresh air and monitor for respiratory distress.

Skin Contact: Generally non-irritating in solid form. **For contact with molten material:** Do not attempt to peel the solidified product from the skin. Flush immediately with large amounts of cold water or ice packs. Seek immediate medical treatment for thermal burns.

Eye Contact: Flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids. If irritation or pain persists, seek medical attention. For contact with hot material, seek immediate medical help.

Ingestion: Not a likely route of exposure for solid masterbatch. If swallowed, rinse mouth with water. Do not induce vomiting unless directed by medical personnel. Seek medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing Media: Use water spray (fog), foam, dry chemical, or carbon dioxide (CO₂). Avoid using a direct high-pressure water stream, as it may spread the fire or molten material.

Specific Hazards: This product is a solid but will burn if exposed to high temperatures or open flames. During combustion, it may emit dense black smoke, Carbon Monoxide (CO), Carbon Dioxide (CO₂), Sulfur Oxides (if bitumen is present), and various irritating hydrocarbons.

Special Protective Equipment: Firefighters should wear Self-Contained Breathing Apparatus (SCBA) and full protective fire-retardant clothing.

Hazardous Combustion Products: Thermal decomposition can lead to the release of irritating gases and vapors.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear appropriate personal protective equipment. **Slip Hazard:** Spilled pellets/granules on the floor can cause a serious slipping hazard.

Environmental Precautions: Prevent the material from entering drains, sewers, or watercourses. The product is solid and insoluble; however, it may cause mechanical blockage in drainage systems.

Methods for Cleaning Up: Sweep or shovel the spilled material into suitable, labeled containers for recovery or disposal. Use a vacuum cleaner for dust if necessary. Avoid generating dust clouds during cleanup.

SECTION 7: HANDLING AND STORAGE

Storage: Store in a cool, dry warehouse. Keep away from heat, sparks, and open flames. Storage Temperature: < 40°C.

Anti-Blocking: Keep containers closed to prevent the solid pieces from sticking together (blocking) at high temperatures.

Handling: Wear gloves. Use in well-ventilated areas when dissolving the masterbatch into solvents. Avoid creating dust if the masterbatch is in pellet form.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: When mixing with solvents, ensure local exhaust ventilation to keep solvent vapor concentrations below exposure limits.

Personal Protective Equipment (PPE):

- **Hand Protection:** Chemical-resistant gloves (Nitrile) during mixing.
- **Respiratory:** Use an organic vapor respirator only during the dilution/dissolving process.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid (Blocks, Pellets, or Slabs)
Color	Black or Dark Brown
Solubility	Insoluble in water; Fully soluble in organic solvents (Gasoline, Xylene, Toluene)
Softening Point	80°C - 110 °C
VOC Content	0% (In solid masterbatch form)

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Stable under recommended storage and handling conditions.

Chemical Stability: Stable at ambient temperatures.

Possibility of Hazardous Reactions: No hazardous reactions known under normal processing.

Conditions to Avoid: Avoid temperatures exceeding the decomposition point (typically >250°C). Keep away from open flames, sparks, and extreme heat.

Incompatible Materials: Strong oxidizing agents (e.g., liquid chlorine, concentrated oxygen).

Hazardous Decomposition Products: Under normal conditions of use, none. If overheated, it may produce Carbon Monoxide, Hydrogen Sulfide (H₂S), and various volatile organic compounds (VOCs).

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity: Low order of acute toxicity.

- **Oral:** LD50 (Rat) > 5000 mg/kg (Estimated).
- **Inhalation:** Low risk at ambient temperature. Overheating may cause respiratory irritation.

Skin/Eye Irritation: Solid particles may cause mechanical irritation. Molten material causes severe thermal burns.

Sensitization: Some tackifying resins may cause mild allergic skin reactions in sensitive individuals upon prolonged contact.

Chronic Toxicity: Bitumen/Asphalt: The IARC has classified "Extracts of steam-refined and air-refined bitumens" as Group 2B (Possibly carcinogenic to humans), but this typically refers to fumes from high-temperature applications.

Butyl Rubber: Not classified as a carcinogen.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: The product is a high-molecular-weight polymer/bitumen blend and is expected to be ecologically inert. It is not considered toxic to aquatic life due to its insolubility in water.

Persistence and Degradability: The product is not biodegradable. It will persist in the environment for a long period.

Bioaccumulative Potential: Not expected to bioaccumulate due to its high molecular weight and solid state.

Mobility in Soil: Low mobility. The product will remain on the soil surface.

Other Adverse Effects: Pellets may be harmful to birds or aquatic life if swallowed (physical blockage).

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods:

- **Product Disposal:** The waste is considered non-hazardous industrial solid waste in many jurisdictions. Recycling into other rubber or asphalt-based products is the preferred method. If recycling is not possible, use controlled incineration.
- **Contaminated Packaging:** Empty bags completely before disposal. Take to an approved waste handling site for recycling or disposal. Do not reuse for food/water.

13.2 Disposal Precautions: Avoid environmental release. Spilled pellets present a significant slip hazard.

13.3 Statutory Status: US RCRA Status: Not generally classified as a hazardous waste.
EU Waste Code (EWC): Suggested code 07 02 13 or 12 01 99.

SECTION 14: TRANSPORT INFORMATION

DOT / IMDG / IATA / ADR: NOT REGULATED AS DANGEROUS GOODS.

Because this product is in a 100% solid state and contains no liquid solvents, it does not meet the criteria of Class 3 (Flammable Liquids). It is safe for standard sea and air freight.

SECTION 15: REGULATORY INFORMATION

This masterbatch is formulated to produce primers meeting:

- ISO 21809-3: External coatings for buried or submerged pipelines.
- AWWA C209 & C214: Tape Coating Systems for Steel Water Pipelines.
- All ingredients are listed on TSCA (USA) and REACH (EU) inventories.

SECTION 16: OTHER INFORMATION

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

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

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Disclaimer: This SDS refers to the product in its solid masterbatch form. The information provided is correct to the best of our knowledge at the date of publication. The end-user is responsible for the safety and SDS of the final liquid primer created after adding solvents.