

SAFETY DATA SHEET (SDS)

Bitumen Primer for Pipe Anti-Corrosion Protection

Compliant with GHS (Rev. 9), OSHA 29 CFR 1910.1200

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Bitumen Primer (Solvent-Based)

Recommended Use: Surface primer for steel pipelines to enhance adhesion of bitumen-based anti-corrosion tapes.

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

Classification according to GHS:

- Flammable Liquids: Category 3
- Skin Corrosion/Irritation: Category 2
- Specific Target Organ Toxicity (Single Exposure): Category 3 (Narcotic effects)
- Aspiration Hazard: Category 1
- Aquatic Toxicity (Chronic): Category 2

FLAMMABLE

IRRITANT

HEALTH HAZARD

Hazard Statements:

- H226: Flammable liquid and vapor.
- H304: May be fatal if swallowed and enters airways.
- H315: Causes skin irritation.
- H336: May cause drowsiness or dizziness.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

| Component | CAS No. | Weight % |
|-----------------------------------|------------------------|-----------|
| Asphalt (Oxidized Bitumen) | 8052-42-4 | 35% - 50% |
| Solvent Naphtha / Mineral Spirits | 64742-88-7 / 8052-41-3 | 40% - 55% |
| Rubber Additives (SBS/Resins) | Proprietary | 5% - 10% |

SECTION 4: FIRST AID MEASURES

Inhalation: Move person to fresh air. If not breathing, give artificial respiration. Seek medical attention if dizziness persists.

Skin Contact: Remove contaminated clothing. Wash skin with soap and water. Do not use solvents to clean skin.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses. Continue rinsing. Seek medical help.

Ingestion: **DO NOT INDUCE VOMITING.** Risk of aspiration into lungs. Seek immediate medical attention at a poison control center.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing Media: Foam, Carbon Dioxide (CO₂), Dry Chemical. **Do not use a solid water stream** as it may scatter and spread the fire.

Special Hazards: Vapors may form explosive mixtures with air. Vapors are heavier than air and may travel to ignition sources and flash back.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Eliminate all ignition sources (no smoking, flares, sparks, or flames). Wear appropriate respiratory protection.

Cleanup: Absorb spill with inert material (e.g., sand, earth, vermiculite). Use non-sparking tools. Transfer to a sealable chemical waste container.

SECTION 7: HANDLING AND STORAGE

Handling: Keep away from heat, sparks, and open flame. Ground/bond container and receiving equipment. Use only outdoors or in a well-ventilated area.

Storage: Store in a cool, well-ventilated place. Keep container tightly closed. Protect from direct sunlight. Store away from oxidizing agents.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits: Asphalt fumes: 0.5 mg/m³ (ACGIH TLV). Solvent Naphtha: 100 ppm (TWA).

Personal Protective Equipment (PPE):

- **Respiratory:** Vapor mask with organic vapor cartridge (NIOSH approved).
- **Hands:** Chemical-resistant gloves (Nitrile or Viton).
- **Eyes:** Chemical splash goggles.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

| | |
|----------------------|---|
| Appearance | Black Liquid |
| Odor | Strong Petroleum/Solvent Odor |
| Flash Point | 38°C - 45°C (Closed Cup) |
| Boiling Point | 150°C - 200°C (Solvent) |
| Solubility | Insoluble in water; Soluble in hydrocarbons |
| Viscosity | 30 - 100 mPa.s (at 25°C) |

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable under normal temperatures, pressures, and recommended storage conditions.

Reactivity: Highly flammable. Extremely susceptible to combustion or explosion in the presence of heat, sparks, open flames, or static accumulation.

Conditions to Avoid: Static discharge, heat sources, open flames, sparks. Avoid prolonged exposure to direct sunlight. Temperatures exceeding 35°C.

Incompatible Materials: Strong oxidizers (e.g., potassium permanganate, peroxides, nitric acid), strong acids, strong bases, halogens.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity:

- **Inhalation:** High vapor concentrations may cause respiratory irritation, headache, dizziness, nausea, and central nervous system depression (coma in severe cases).
- **Ingestion:** May cause digestive tract irritation. Aspiration into lungs can cause chemical pneumonia.
- **Skin:** Slightly toxic through skin absorption. May cause dermatitis through degreasing.

STOT (Specific Target Organ Toxicity): May cause drowsiness or dizziness (Single exposure). Long-term inhalation may damage the liver, kidneys, or nervous system (Repeated exposure).

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: Toxic to aquatic organisms. Solvent components may cause mortality in fish and aquatic invertebrates.

Persistence and Degradability: Solvents are volatile and photodegradable in air. Butyl rubber component is a high polymer and is **extremely difficult to degrade** in the natural environment.

Other Adverse Effects: This product is a hazardous waste. Do not discharge into sewers, soil, or water bodies.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods:

- **Product Disposal:** Classified as Hazardous Waste (e.g., China HW12). Do not dump into sewers or environment. Dispose of via qualified hazardous waste contractors. High-temperature incineration with flue gas scrubbing is recommended.
- **Contaminated Packaging:** Empty containers retain flammable vapors. **Do NOT weld, cut, or drill uncleaned drums** as they may explode. Treat as hazardous waste.

13.2 Precautions: Wear PPE (anti-static suit, solvent-resistant gloves). Ground all equipment during waste transfer to prevent static sparks.

SECTION 14: TRANSPORT INFORMATION

UN Number: UN 1263

Proper Shipping Name: PAINT RELATED MATERIAL (including bitumen primer)

Transport Class: 3 (Flammable Liquid)

Packing Group: III (Minor to medium danger)

Marine Pollutant: Yes

SECTION 15: REGULATORY INFORMATION

Safety/Health Regulations: Subject to local regulations for Flammable Liquids. All components are listed on TSCA and EINECS.

SECTION 16: OTHER INFORMATION

HMIS Rating: Health: 2 | Flammability: 3 | Physical Hazard: 0

Training: Personnel should be trained in flammable liquid handling, PPE usage, and emergency spill response.

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

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Disclaimer: This SDS is based on current knowledge and is intended to describe the product for the purposes of health, safety, and environmental requirements only. It should not be construed as guaranteeing any specific property of the product.