

Safety Data Sheet (SDS)

According to GHS (Rev. 9) & OSHA HazCom 2012

Product Name:	Solvent-based Butyl Rubber Primer (for PE Cold-Applied Tape)
Revision Date:	January 26, 2026

SECTION 1: IDENTIFICATION

Product Identifier: Butyl Rubber Primer (Solvent-based)

Recommended Use: Surface primer for Polyethylene (PE) anti-corrosion cold-applied tapes. Used to enhance adhesion between the pipe surface and the tape adhesive.

Manufacturer: Shandong Quanmin Plastic Co., Ltd.

Address: North of Shengli Oil Extraction Plant Tuo Si Joint Station, Dongying City, Shandong Province, China.

Emergency Contact Number: +86-546-8740309

SECTION 2: HAZARD IDENTIFICATION

GHS Classification:

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

Signal Word: **DANGER**

Hazard Statements:

- H225: Highly flammable liquid and vapor.
- H304: May be fatal if swallowed and enters airways.
- H315: Causes skin irritation.
- H336: May cause drowsiness or dizziness.
- H411: Toxic to aquatic life with long lasting effects.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration (%)
Solvents (Naphtha / Toluene / Xylene)	Various (e.g., 108-88-3)	75% - 85%
Butyl Rubber (Solid content)	9003-27-4	15% - 30%
Synthetic Resin (Tackifier)	Proprietary	5% - 8%

SECTION 4: FIRST AID MEASURES

Inhalation: Move person to fresh air. If breathing is difficult, give oxygen. Seek medical attention immediately.

Skin Contact: Remove contaminated clothing. Wash with soap and water. Use barrier cream if necessary.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses immediately. Seek medical attention.

Ingestion: **DO NOT induce vomiting** (Aspiration risk). Seek medical attention immediately.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing Media: Foam, Dry Powder, Carbon Dioxide (CO₂), Sand. Do not use direct water jets.

Specific Hazards: Vapors may travel to ignition sources and flash back. Closed containers may explode when exposed to extreme heat.

Firefighters: Must wear Self-Contained Breathing Apparatus (SCBA) and full protective fire-retardant clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Eliminate all ignition sources. Ventilate the area. For large spills, dike the area and collect with non-sparking tools. Use absorbent materials (sand, earth) for cleanup. Prevent runoff into sewers or waterways.

SECTION 7: HANDLING AND STORAGE

Handling: Keep away from heat, sparks, and open flames. Use explosion-proof equipment. Ground/bond container and receiving equipment. Wear anti-static clothing and gloves. **Prohibited in confined spaces without ventilation.**

Storage: Store in a cool, well-ventilated "Flammable Liquid" storage area. Keep containers tightly closed. Storage Temperature: 5°C to 35°C.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Provide local exhaust ventilation or explosion-proof general ventilation systems.

Respiratory Protection: Use organic vapor respirators (e.g., NIOSH-approved) if concentrations exceed limits.

Hand Protection: Chemical-resistant gloves (Nitrile or Viton).

Eye Protection: Chemical splash goggles.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

- **Appearance:** Black or dark colored liquid
- **Odor:** Strong aromatic solvent odor
- **Flash Point:** < 23°C (Closed cup)
- **Solubility:** Insoluble in water; Soluble in organic solvents
- **Specific Gravity:** 0.80 - 0.95 (Water = 1)
- **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 primer)
- **Hazard Class:** 3
- **Packing Group:** II (High Hazard)
- **Marine Pollutant:** Yes

SECTION 15: REGULATORY INFORMATION

Regulated by IMDG (Maritime), IATA (Air), and local hazardous chemical safety regulations (e.g., China Decree No. 591, US OSHA HazCom 2012).

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.

Disclaimer: The information provided in this SDS is believed to be accurate at the time of writing but does not constitute an express or implied warranty. As actual use conditions are beyond our control, the user is responsible for determining the suitability of the product for their specific purpose.