SAFETY DATA SHEET (SDS)

Conforms to GHS (Rev.9) and OSHA HazCom 2012

Product: Solvent-Free Epoxy Primer (Part A & B)
Issue Date: May 21, 2023

1. IDENTIFICATION OF THE SUBSTANCE AND COMPANY

Product Name	**High-Performance Solvent-Free Liquid Epoxy Primer**
Product Description	Two-component (Base and Hardener) 100% solids epoxy coating system.
Recommended Use	Corrosion protection primer for pre-treated steel pipelines, applied prior to the installation of heat shrinkable sleeves (3-layer PE/PP systems).
Application	Brush, roller, or spray application after mixing Part A and Part B.
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

Part A (Resin Base): WARNING

- Skin Irritation (Cat. 2)
- Eye Irritation (Cat. 2A)
- Skin Sensitization (Cat. 1)
- Toxic to aquatic life with long-lasting effects.

Part B (Hardener): DANGER

- Acute Toxicity, Oral/Dermal (Cat. 4)
- **Skin Corrosion (Cat. 1B)**
- Serious Eye Damage (Cat. 1)
- Skin Sensitization (Cat. 1)

Precautionary Statements: Avoid breathing vapors. Wear protective gloves/clothing/eye protection. If swallowed, rinse mouth; Do NOT induce vomiting. If on skin, wash with plenty of water. If in eyes, rinse cautiously for several minutes.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Part A (Resin)

Chemical Name	CAS Number	Weight %
Bisphenol A - Epichlorohydrin Resin	25068-38-6	70% - 90%
Aliphatic Glycidyl Ether (Reactive Diluent)	68609-97-2	10% - 20%

Part B (Hardener)

Chemical Name	CAS Number	Weight %
Isophorone Diamine (IPDA)	2855-13-2	40% - 60%
Benzyl Alcohol	100-51-6	20% - 40%
Cycloaliphatic Amines	Proprietary	10% - 20%

4. FIRST AID MEASURES

- **Eye Contact:** Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids. Seek immediate medical attention (especially for Part B).
- **Skin Contact:** Remove contaminated clothing. Wash skin with soap and plenty of water. **Part B is corrosive;** seek medical help for chemical burns.
- **Inhalation:** Move to fresh air. If breathing is difficult, give oxygen. Consult a physician.
- **Ingestion:** Wash out mouth with water. Do not induce vomiting unless directed by medical personnel. Seek immediate medical help.

5. FIRE-FIGHTING MEASURES

Extinguishing Media: Alcohol-resistant foam, dry chemical, carbon dioxide (CO_2).

Special Hazards: Solvent-free but organic. Combustion will release Carbon Monoxide, Carbon Dioxide, and Nitrogen Oxides (from Part B). Incomplete combustion may release toxic cyanides.

Firefighting PPE: Full protective gear and Self-Contained Breathing Apparatus (SCBA).

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear chemical-resistant clothing and gloves. Avoid contact with spilled material.

Containment: Stop leak if without risk. Dike the area to prevent entry into sewers or watercourses. Soak up with inert absorbent material (sand, silica gel, universal binder).

Disposal: Collect in labeled, sealable containers. Dispose of as hazardous chemical waste.

7. HANDLING AND STORAGE

- **Handling:** Use in well-ventilated areas. Wear appropriate PPE. Prevent contact with eyes, skin, and clothing. Wash thoroughly after handling.
- **Mixing:** Ensure Part A and Part B are mixed at the exact manufacturer-specified ratio. **Note:** Large mixed volumes can generate significant exothermic heat.
- **Storage:** Store in original tightly closed containers in a cool, dry, well-ventilated place (5°C - 35°C). Keep away from strong acids and oxidizing agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls	Provide local exhaust ventilation or use in open air to maintain vapor concentrations below exposure limits.
Hand Protection	**Mandatory:** Chemical-resistant gloves (Nitrile, Butyl rubber, or Viton). *Latex gloves are NOT recommended.*
Eye Protection	Chemical splash goggles or full-face shield.
Skin Protection	Impermeable protective clothing (aprons, boots, or full suits as required).

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Part A: Viscous Liquid (Grey/White); Part B: Liquid (Clear/Amber)
Odor	Part A: Faint; Part B: Strong Amine (Ammonia-like)
Flash Point	> 100°C (> 212°F) - Non-flammable
Solubility	Insoluble in water

VOC Content	0 g/L (100% Solids)

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Incompatibility: Strong acids, bases, and oxidizing agents. Amines (Part B) react vigorously with epoxy resins (Part A) - this is the intended curing reaction.

Hazardous Polymerization: Will not occur by itself. Mixing large quantities of A and B may cause excessive heat (exothermic reaction).

11. TOXICOLOGICAL INFORMATION

Part A: Low acute toxicity. Potent skin sensitizer. Repeated contact may cause allergic dermatitis.

Part B: Corrosive to skin and eyes. Vapors may cause respiratory irritation. Harmful if swallowed or absorbed through skin.

12. ECOLOGICAL INFORMATION

Both components, especially Part A, are toxic to aquatic organisms. Prevent leakage into soil, rivers, or sewage systems.

13. DISPOSAL CONSIDERATIONS

Waste must be disposed of in accordance with federal, state, and local environmental control regulations. Empty containers may retain hazardous residues and should be treated as hazardous waste.

14. TRANSPORT INFORMATION

DOT (Land)	Not regulated (if non-bulk)
IMDG (Sea)	**UN 3082**, Environmentally Hazardous Substance, Liquid, n.o.s. (Epoxy Resin), Class 9, PG III / **UN 2735**, Amines, Liquid, Corrosive, n.o.s. (IPDA), Class 8, PG II.
IATA (Air)	Same as IMDG.

15. REGULATORY INFORMATION

- **TSCA:** All ingredients are listed.
- **SARA 311/312:** Acute Health Hazard, Chronic Health Hazard.
- **California Prop 65:** This product may contain trace chemicals known to cause cancer (Epichlorohydrin).

16. OTHER INFORMATION

HMIS Classification: Health Hazard: Level 3 | Flammability: Level 1 | Physical Hazard: Level 0.

Technical Focus : Developed in compliance with the pipeline corrosion protection standard ISO 21809-3, this SDS is specifically formulated for pipeline corrosion protection systems, rather than being a conventional industrial paint.

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

Statement :*This SDS is intended for the use of professional applicators. The information is provided without any warranty, express or implied, regarding its correctness. Users should make their own investigation to determine the suitability of the information for their particular purposes.*