

Material Safety Data Sheet (MSDS)

PB-950 High-Performance Zinc Plating Sealer

1. Product and Company Identification

Product Name: PB-950 High-Performance Zinc Plating Sealer

Company Name: Dongguan Shuomei Electronic Materials Technology Co., Ltd. Emergency

Telephone: 0769-81030059

2. Composition / Information on Ingredients

Form: Mixture

Ingredient	Content
Silane Coupling Agent	3%
Nano Silicon Dioxide	15%
Surfactant	1%
Water	81%

Chemical Formula / Structural Formula: Not applicable Regulatory Filing Number: Not applicable

3. Hazard Identification

- (1) Physical hazard classification: Not subject to hazard classification criteria
- (2) Physical risks: Non-flammable and non-explosive; no special hazards under normal use
- (3) Environmental hazard: Harmful to the environment; special care must be taken to avoid water pollution
- (4) Health hazard: Eye or skin contact without prompt treatment may cause slight inflammation. Heavy inhalation leads to soreness of the nose, throat and bronchi.

4. First-Aid Measures

Eye Contact

Immediately flush eyes continuously with running clean water for 15 minutes. Keep eyes open and pull upper and lower eyelids apart to ensure water fully covers all surfaces of the eyeballs and conjunctiva. If discomfort occurs due to delayed or incomplete rinsing, seek immediate medical treatment from an ophthalmologist.

Skin Contact

Quickly wipe off residual liquid with paper towels or cloth, then rinse thoroughly with large amounts of running water or skin cleanser. Immediately remove contaminated clothing and footwear and rinse them with abundant running water. For heavy contamination, flush skin with plenty of water before removing garments. Seek medical attention promptly if skin irritation arises from insufficient or delayed cleaning.

Ingestion

Rinse mouth with clean water right away. If possible, let the victim drink milk mixed with egg white, which forms a protective film on the mucous membranes of the throat, esophagus and stomach to relieve chemical burns and penetration. Hospital gastric lavage shall be carried out when necessary.

Massive Inhalation

Remove the patient to a well-ventilated area with fresh air to rest, then send to hospital for further treatment.

5. Fire-Fighting Measures

Suitable Extinguishing Media: Water spray, foam extinguishers, dry powder extinguishers, carbon dioxide extinguishers, sand and earth Unsuitable Extinguishing Media: None Fire Response Instructions: Immediately cut off all ignition sources if a nearby fire breaks out. Transfer product containers to a safe location if feasible. Maintain a safe distance during fire suppression; firefighters must wear protective clothing and gas masks.

6. Accidental Release Measures

Emergency Handling: Block off the spill area immediately and prohibit entry of unauthorized personnel. Identify the root cause of leakage as soon as possible to stop further outflow; wear full protective equipment before handling spills.

Minor spillage: Wipe clean with cloth or absorb with soil, then rinse residues with water.

Major spillage: Build sandbag dikes to prevent liquid spreading; pump leaked liquid into corrosion-resistant containers for recovery. Flush unrecoverable residues with water. Treat residual solution and flushing wastewater by adequate dilution first, then neutralize with alkaline substances such as slaked lime or sodium hydroxide to the specified pH range. Discharge is only permitted after meeting emission standards; direct untreated discharge is forbidden to prevent environmental damage.

7. Handling and Storage

Handling Precautions

Avoid splashing the product onto eyes and skin. Thoroughly wash hands, face and exposed skin after operation. Sufficient clean water shall be available at the workplace for emergency flushing; maintain good ventilation in operating areas.

Storage Precautions

Store containers in cool, dark, well-ventilated areas away from direct sunlight; do not store under high-temperature conditions. Segregate from strong acids, strong alkalis, oxidants and reducing agents; do not store them in the same area. Do not overstack; a maximum of two layers is recommended to prevent package rupture or damage. Keep containers tightly sealed and avoid long-term storage. Reserve sufficient clean water in storage areas for emergency use.

8. Exposure Controls / Personal Protection

Ventilation Facilities: Ensure full air exchange and good ventilation at all workstations Auxiliary Sanitary Facilities: Install wash stations and cleaning equipment near operating zones for convenient post-operation cleaning of hands and face.

Personal Protective Equipment

Eye & Face Protection: No special protection required for routine use; safety goggles and face shields may be worn if needed Skin Protection: Wear suitable rubber gloves and rubber boots Respiratory Protection: Wear gas masks Other Workplace Rules: Smoking and eating are prohibited on-site. Shower and change into clean clothes after work shifts.

9. Physical and Chemical Properties

Appearance: Colorless or pale yellow transparent liquid Odor: No obvious pungent smell Boiling Point: 100 °C Flash Point: >100 °C Density (23°C): 0.98 – 1.0 g/cm³ Viscosity (23°C): 25 – 170 seconds pH Value (Undiluted): 5.5 – 6.2 Solubility: Freely soluble in water

10. Stability and Reactivity

Flammability: Stable under normal service conditions (non-flammable aqueous solution) Flash Point: Non-flammable, no flash point Ignition Point: Non-combustible Explosion Risk: Non-explosive substance Chemical Stability: Chemically stable under normal usage Hazardous Decomposition Products: None Incompatible Reaction Hazards: None

11. Toxicological Information

Irritation: Slightly irritating Corrosivity: Non-corrosive

12. Ecological Information

No available data

13. Disposal Considerations

Disposal Methods

Treat wastewater in accordance with hazardous waste standards and discharge only after passing compliance testing. Dilute stock solution or concentrated waste liquid and neutralize with alkali, or entrust disposal to professional waste treatment organizations.

Disposal Notes

All waste must be disposed of properly; random dumping is prohibited to avoid environmental pollution.

14. Transport Information

Domestic Hazard Classification: Non-hazardous liquid UN Number: 3098 Packing Group: III Packing Label: Non-hazardous liquid label

15. Regulatory Information

Applicable National Regulation: Catalogue of Hazardous Chemicals (2002 Version), issued by State Administration of Work Safety

16. Other Information

All information contained in this MSDS is provided by Dongguan Shuomei Electronic Materials Technology Co., Ltd. Users shall reference this data in accordance with actual application conditions.