

Material Safety Data Sheet (MSDS)

Section 1: Chemical and Company Identification

Product name: M888 Water-Based Environmentally Friendly Conformal Coating
Trade name: M888 Water-Based Conformal Coating
Chemical formula: Mixture
Company: Zhuhai Changxian New Material Technology Co., Ltd.
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Section 2: Hazards Identification

Emergency overview: Water-based, nonflammable and non-explosive mixture. No significant hazard is expected under normal conditions of use.

Hazard classification: Not classified as a hazardous chemical based on the available product information.

Health effects: Minimal health effects are expected under normal conditions.

Primary symptoms: Minimal effects are expected after skin absorption, with no visible symptoms. Accidental ingestion may irritate the esophagus and stomach and cause vomiting.

Environmental, physical, chemical and special hazards: No special hazards reported. The product is nonflammable and non-explosive.

Section 3: Composition / Information on Ingredients

Substance ☐

Mixture ☒

Component	Concentration (% w/w)	CAS No.
Waterborne polyurethane	30-40	9009-54-5
Other additives	1-5	-
Deionized water	50-60	7732-18-5

Section 4: First Aid Measures

Inhalation: Move the exposed person to fresh air immediately.

Skin contact: Wash the skin thoroughly with soap and water.

Eye contact: Lift the eyelids and rinse with running water or saline solution. Seek medical attention.

Ingestion: Drink sufficient warm water, induce vomiting and seek medical attention.

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Section 5: Firefighting Measures

Suitable extinguishing media: The product is nonflammable. Use foam, carbon dioxide, dry chemical or other extinguishing media appropriate for the surrounding fire.

Specific hazards during firefighting: No product-specific fire or explosion hazards reported.

Special firefighting procedures: No product-specific procedure is required. Use measures appropriate for the surrounding fire.

Special protective equipment for firefighters: Use protective equipment appropriate for the surrounding fire conditions.

Section 6: Accidental Release Measures

Personal precautions: Wear protective gloves during handling and cleanup.

Environmental precautions: None reported.

Methods for cleanup:

Wash the affected area with tap water and route the wash water to an appropriate wastewater treatment system.

Section 7: Handling and Storage

Handling precautions: The product is nonflammable and non-explosive. Keep the container closed when not in use, avoid contamination, and keep out of reach of children. Do not mix with other products.

Storage precautions: Store in sealed containers in a cool, well-ventilated area below 25°C.

Protect from sunlight and ultraviolet light, keep away from heat, and do not freeze. Periodic circulation or stirring during use can help maintain storage stability. Shelf life is six months under the stated conditions. Apply the first-in, first-out principle.

Section 8: Exposure Controls / Personal Protection

Respiratory protection: Generally not required. Wear a suitable mask when necessary.

Eye protection: Wear safety goggles.

Skin and body protection: No special protection is normally required.

Hand protection: Generally not required; rubber gloves may be used.

Hygiene measures: Use appropriate protective equipment and wash hands immediately after completing the work.

Section 9: Physical and Chemical Properties

Appearance: Translucent liquid

Odor: Essentially odorless

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Solids content: $30 \pm 2\%$

Viscosity: 120 ± 30 cP

pH: 6-8

Flammability: Nonflammable and non-explosive

Recommended thinner: Deionized water

Drying at 25°C: Touch dry in 60 minutes; optimum properties after 7 days at room temperature

Drying at 80°C: Touch dry in ≤ 10 minutes; fully dry in 3-5 hours

Recommended curing: Heat at 80°C for 3-10 minutes, followed by drying at room temperature. Main use: Moisture, mildew and corrosion protection of electronic and electrical products.

Section 10: Stability and Reactivity

Stability: Stable.

Hazardous reactions under special conditions: None reported under normal conditions of use and storage.

Conditions to avoid: Freezing, sunlight, ultraviolet light and prolonged exposure to heat. Do not mix with other products, including cationic materials, paints or paint products.

Incompatible materials: Other products, including cationic materials, paints and paint products.

Hazardous decomposition products: None reported.

Section 11: Toxicological Information

Acute toxicity: None reported.

Local effects: None reported.

Sensitization: None reported.

Chronic or long-term toxicity: None reported.

Special effects: None reported.

Section 12: Ecological Information

Potential environmental impact / environmental fate: None reported.

Section 13: Disposal Considerations

Disposal method: Dispose of in accordance with applicable government regulations. Use a licensed waste disposal contractor.

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Section 14: Transport Information

Transport classification: Not classified as dangerous goods for transport based on the available product information.

UN number, transport hazard class and packing group: Not applicable.

Transport precautions: Handle in accordance with applicable regulations. Keep away from heat and protect from sunlight and ultraviolet light.

Packaging: 4 L pail; 20 L drum.

Section 15: Regulatory Information

Hazardous chemical status: M888 is not classified as a hazardous chemical based on the available product information. General occupational safety, transport and waste-disposal regulations remain applicable.

Section 16: Other Information

Prepared by: Technical Department

Preparation date: January 5, 2025