

Material Safety Data Sheet (MSDS)

Section 1: Chemical Product and Company Identification

Chemical Name: CX936-5 Waterborne Insulating Varnish

Synonyms / Trade Name: Modified waterborne epoxy insulating varnish

Chemical Formula: Mixture

Company: Zhuhai Changxian New Material Technology Co., Ltd.

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Section 2: Hazards Identification

Emergency Overview: At medium to low vapour concentrations below 200 ppm, health effects are minimal.

Hazard Classification: Class IV (slight hazard).

Label elements in accordance with GB 15258-2009 (General Rules for Preparation of Chemical Safety Labels)

Pictograms: Not applicable.

Hazard Statements: Skin absorption is expected to have minimal health effects. Ingestion may irritate the oesophagus and stomach and may cause vomiting.

Precautionary Statements:

Prevention: Wear protective gloves and safety glasses. Provide adequate ventilation and wash hands after handling.

Response: If inhaled, move to fresh air. Wash skin with soap and clean water. Flush eyes with running water or saline and seek medical attention. If swallowed, drink warm water and seek medical attention.

Storage: Store in a shaded, cool and ventilated warehouse at 5-35°C. Keep the container sealed and protect from direct sunlight.

Disposal: Dispose in accordance with applicable government regulations through a licensed waste disposal contractor.

Physical and Chemical Hazards:

Physical and Chemical Hazards: None identified. The product is non-flammable.

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

Acute Effects: Ingestion may irritate the oesophagus and stomach and may cause vomiting.

Chronic Effects: None identified.

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Section 3: Composition / Information on Ingredients

Pure Substance	Mixture ■	
Ingredient	Concentration	CAS No.
Modified waterborne epoxy emulsion	22-30%	61788-97-4
Co-solvents	5-15%	64-17-5; 112-76-2
Waterborne additives	0.5-1%	Trade secret
Deionized water	65-75%	7732-18-5

Section 4: First Aid Measures

Inhalation: Move the affected person to fresh air. Keep the airway open. If breathing is difficult, administer oxygen. If breathing stops, provide artificial respiration and seek medical attention.

Skin Contact: Remove contaminated clothing and wash the skin thoroughly with soap and clean water. Seek medical attention if irritation persists.

Eye Contact: Immediately hold the eyelids open and flush with running water or saline for at least 15 minutes. Seek medical attention.

Ingestion: Rinse the mouth, drink an appropriate amount of warm water and seek medical attention.

Section 5: Fire Fighting Measures

Suitable Extinguishing Media: Foam, carbon dioxide or dry powder. Select media appropriate for the surrounding fire.

Special Hazards: None identified. The product is non-flammable.

Firefighting Precautions: No special procedure is specified. Use protection appropriate for the surrounding fire.

Hazardous Combustion Products: None specified.

Section 6: Accidental Release Measures

Personal Precautions: Wear protective gloves.

Environmental Precautions: No special precautions specified.

Containment and Cleanup:

Clean up with tap water and direct the wash water to an appropriate wastewater treatment system.

Section 7: Handling and Storage

Handling Precautions: The product is non-flammable. Keep the container sealed when not in use and keep out of reach of children. Provide adequate ventilation.

Storage Precautions: Store in a shaded, cool and ventilated warehouse at 5-35°C. Protect from direct sunlight. Keep sealed and follow first-in, first-out. Shelf life: six months from the

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date of production.

Section 8: Exposure Controls / Personal Protection

Engineering Controls: Provide adequate ventilation.

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

Eye Protection: Wear safety glasses.

Body Protection: No special protection specified.

Hand Protection: Wear rubber gloves.

Other Protection: Wear appropriate protective equipment and wash hands immediately after work.

Section 9: Physical and Chemical Properties

Appearance and State: Milky-white liquid, free of mechanical impurities; essentially odourless.

Specific Gravity (20°C): 1.030±0.03. Viscosity (Tu-4 cup, 25±1°C): 11-15 s.

Solids content: 25±3%. pH: 7-9. Flash Point: >96°C. Solubility: Miscible with water.

Drying Time at 105°C: Surface dry 5-10 min; through dry ≤120 min.

Main Uses: Impregnation insulation of motors and transformers, especially high-frequency transformers.

Section 10: Stability and Reactivity

Stability: Stable.

Incompatible Materials: None specified.

Conditions to Avoid: Sunlight and freezing.

Hazardous Reactions: Ingestion may irritate the oesophagus and stomach and cause vomiting.

Hazardous Decomposition Products: None specified.

Section 11: Toxicological Information

Acute Toxicity: None identified.

Skin Corrosion/Irritation: Minimal effects are expected after skin absorption.

Serious Eye Damage/Irritation: No data available.

Respiratory or Skin Sensitization: Skin contact may cause an allergic reaction in some individuals.

Chronic Toxicity: None identified.

Other Effects: Ingestion may irritate the oesophagus and stomach and cause vomiting.

Section 12: Ecological Information

Environmental Impact: None identified.

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Section 13: Disposal Considerations

Waste Chemical: Dispose of in accordance with applicable government regulations through a licensed waste disposal contractor.

Section 14: Transport Information

International Transport Reference: UN Model Regulations on the Transport of Dangerous Goods.

Domestic Transport Reference: Regulations on the Safety Management of Hazardous Chemicals.

Section 15: Regulatory Information

The following laws, regulations, rules and standards provide for the management of this chemical.

Law of the People's Republic of China on Prevention and Control of Occupational Diseases.

Regulations on the Safety Management of Hazardous Chemicals.

Regulations on Labour Protection in Workplaces Using Toxic Substances.

Regulations on the Administration of Precursor Chemicals.

Applicable international conventions.

Section 16: Other Information

Preparation and Revision Information: 2025.06.24 — Technical Department.

Training Recommendations: Provide relevant training to users.

Disclaimer: The above information is not a product specification and is provided for reference only; no warranty is assumed. The recommended industrial safety and hygiene procedures are considered practicable under normal conditions. Users remain responsible for determining whether these recommendations are appropriate for their specific conditions of use.