

Material Safety Data Sheet (MSDS) PAGE 1

Part 1: Chemicals and Corporate Identification

Chemical Name (Chinese): M78H-41 Conformal Coating

Common or trade name of the chemical: moisture absorber, quick-drying protective coating.

Chemical formula: mixture

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

Address: Langwan Road, Fine Chemical Industrial Zone, Gaolan Port Economic Zone, Zhuhai City

Postal code: 519050

Email address: szwkb@changxiankeji.com

Fax number: +86-755-26689087

Telephone numbers: +86-755-26852596 +86-755-26852597 +86-755-26864069

Company emergency hotline: +86-13802269905

National Emergency Hotline: +86-532-83889090

Part 2: Hazard Overview

Emergency Overview: Flammable Liquids and Vapors

GHS hazard category: Flammable liquid, Category 2 ;

Label elements are in accordance with GB 15258-2009 (Regulations for the Preparation of Safety Labels for Chemicals).

Pictograms:



Signal words: Flammable, Health hazards

Warning word: Danger

Hazard statement: Flammable liquids and vapors

Prevention instructions:

Preventive measures Keep away from sparks, open flames, and heat sources. Keep containers sealed. Ground containers and receiving equipment. Use explosion-proof electrical, ventilation, and lighting equipment, and use machinery and tools that do not generate electrical sparks. Take anti-static measures. Wear protective gloves, safety glasses, and a face shield.

Incident Response: In case of fire, use foam, carbon dioxide, dry powder, or sand to extinguish the fire. If skin (or hair) comes into contact: immediately remove contaminated clothing, wash thoroughly with soap and water, and take a shower.

Secure storage Store in a cool, dark, and well-ventilated warehouse. Keep containers tightly sealed. Maintain a low temperature.

Material Safety Data Sheet (MSDS) PAGE 2

Waste disposal Before disposal, consult relevant national and local regulations, or use incineration.

Physical and chemical hazards:

It is flammable, and its vapor can form an explosive mixture when mixed with air.

Health hazards: Irritating to the eyes, nose, and throat. Inhalation of high concentrations has a progressive anesthetic effect and can cause respiratory paralysis. Ingestion may cause nausea, vomiting, and abdominal pain.

Environmental hazards: May be harmful to the environment.

Part 3: Ingredient/Composition Information

Pure mixtures ■

Substance concentration (W/W, %) CAS.NO

Modified polyurethane 40-50 9009-54-5

Ether ester solvent 20-30 108-65-6

Hydrocarbon solvent 10-20 64742-48-9

Others 1-5 /

Part 4: First Aid Measures

Inhalation: Immediately move to fresh air.

Skin contact: Remove contaminated clothing and wash skin thoroughly with soap and water.

Eye contact: Immediately open the upper and lower eyelids and rinse with running water or saline solution for at least 15 minutes . Seek medical attention.

If ingested: Rinse mouth with water and seek medical attention.

Part 5: Fire Prevention Measures

Extinguishing agents: Foam, carbon dioxide, dry powder, and sand can be used to extinguish fires.

Special hazards: Flammable; its vapor forms an explosive mixture with air. It can react with oxidizers.

Firefighting Precautions and Protective Measures: Firefighters must wear gas masks and full-body fire suits and fight the fire from upwind. Move containers from the fire area to an open space if possible. Spray water to keep containers in the fire area cool until the fire is extinguished. If containers suddenly

Material Safety Data Sheet (MSDS) PAGE 3

make unusual noises or exhibit unusual phenomena, evacuate immediately.

Hazardous combustion products: CO , CO₂

Part 6 Leakage Emergency Handling

Personnel protective measures: Immediately evacuate personnel from the contaminated area to an upwind location and isolate the area, strictly restricting access. Eliminate ignition sources. Emergency responders are advised to wear self-contained positive pressure breathing apparatus and anti-static work clothes. Cut off the leak source if possible.

Environmental protection measures: Prevent leaked materials from entering water bodies, sewers, basements, or confined spaces.

Methods for containing and cleaning up spilled chemicals and the disposal materials used:

Small leak It can be adsorbed or absorbed by sand or other non-combustible materials.

Massive leak Construct dikes or dig pits to contain the vapors; cover with foam to reduce vapor hazards.

Part 7. Handling and Storage

Operating Precautions: Operate in a closed system with enhanced ventilation. Operators must be specially trained and strictly adhere to operating procedures. It is recommended that operators wear self-priming filter respirators (half-face masks) and anti-static work clothes. Keep away from sources of ignition and heat; smoking is strictly prohibited in the workplace. Use explosion-proof ventilation systems and equipment. Prevent vapor leakage into the workplace air. Avoid contact with oxidizers and alkalis. Provide appropriate types and quantities of fire-fighting equipment and leakage emergency response equipment. Smoking is strictly prohibited at the work site. Avoid inhalation of high concentrations.

Storage Precautions: Store in a dark, cool, and well-ventilated warehouse. Keep away from fire and heat sources. Keep containers sealed. Shelf life is generally six months from the date of production at temperatures below 25° C. Warehouse lighting and ventilation systems should be explosion-proof, with switches located outside the warehouse. The use of machinery and tools that may generate sparks is prohibited. The storage area should be equipped with spill response equipment.

Part 8 Exposure Controls/Personal Protection

Exposure limits: China has not established standards.

Biological exposure limits: No standards have been established.

Monitoring methods: Methods for determining toxic substances in the air

Engineering controls: The production process is closed and fully ventilated.

Safe shower and eyewash stations are provided.

Respiratory protection: For prolonged, high-concentration exposure, a filtering half-face mask can be worn.

Eye protection: Wear protective glasses

Body protection: Wear anti-static work clothes

Hand protection: Wear rubber gloves

Other precautions: Smoking, eating, and drinking are prohibited at the work site.

Pay attention to personal hygiene.

Part 9: Physical and Chemical Properties

Appearance and properties: Yellow transparent liquid

Relative density (20°C): 0.98 ± 0.03

flash Point (° C): 4

Ignition temperature (° C): 370

Solid content (%): 40 ± 2

Explosion Limit: Upper Limit (Volume, %): 7

Lower limit (volume, %): 1

Drying time: At room temperature and 55% humidity, contact drying: ≤ 30 minutes,
fully dry: 24 hours

80°C Drying time: 5-10 minutes Fully dry: 2 hours

Main uses: For moisture protection, insulation, and corrosion protection of PCB
board surfaces. Suitable for spraying and hand brushing processes.

Part 10: Stability and Reactivity

Stability: Stable

Incompatible materials: strong oxidizing agents, strong acids.

Conditions to avoid: open flame, high heat, static electricity

Harm of polymerization: Non-polymerization

Decomposition products: carbon monoxide, carbon dioxide

Part 11: Toxicological Information

name	result	type	dose	Exposure
dimethyl carbonate	LD50 via oral	rats	13000mg/kg	
Ether ester solvents	TWA		50ppm	8H

Conclusion/Overview

Skin irritation or corrosion: No data available.

Eye irritation or corrosion: No data available.

Respiratory or skin allergies: No data available

Mutagenicity: No data available.

Carcinogenicity: No data available.

Inhalation hazards: No data available.

Part 12: Ecological Information

Ecotoxicity: No data available.

Durability and degradability: Biodegradability: No data available

Non-biodegradability: No data available

Potential bioaccumulation: Based on the Kow value, the bioaccumulation of this substance is likely to be weak.

Soil mobility: Based on Kow values, this material is likely to migrate.

Part 13: Waste Disposal

Waste chemicals: Dispose of by incineration

Contaminated packaging: Return the containers to the manufacturer or dispose of them in accordance with relevant national and local regulations.

Material Safety Data Sheet (MSDS) PAGE 6

Disposal Considerations: Waste generation should be avoided or minimized as much as possible. Significant amounts of residual product waste are disposed of through licensed channels.

Waste disposal contractors handle residues and non-renewable products. The disposal of products, solutions, and their byproducts must comply with environmental protection, waste disposal regulations, and relevant local regulations.

Part 14: Transportation Information

Dangerous goods number: 33645

UN Number: /

Packaging category: II

Packaging markings:



Packaging method: 4L/drum or 20L/drum

Transportation Precautions: Transport vehicles should be equipped with appropriate types and quantities of fire-fighting equipment and leakage emergency handling equipment. Transportation is best done in the early morning or late evening during summer. Tank trucks used for transportation should have grounding chains, and perforated baffles can be installed inside the tank to reduce static electricity generated by vibration. Mixing or transporting with oxidizers, acids, alkali metals, amines, or food chemicals is strictly prohibited. Protect from exposure to sunlight, rain, and high temperatures during transportation. When stopping en route, keep away from sources of ignition, heat sources, and high-temperature areas. Vehicles transporting this item must have flame arresters on their exhaust pipes, and the use of machinery and tools that may generate sparks during loading and unloading is prohibited. When transporting by road, follow the prescribed routes and do not stop in residential areas or densely populated areas. When transporting by rail, shunting is prohibited.

Part 15: Regulatory Information

The following laws, regulations, rules and standards stipulate the corresponding provisions for the management of this chemical.

Occupational Disease Prevention and Control Law of the People's Republic of China : Classification and Catalogue of Occupational Diseases: Not listed
Hazardous Chemicals Safety Management Regulations : Listed. List of Easily Explosive Hazardous Chemicals: Not listed. List of Key Monitored Hazardous Chemicals: Not listed. GB18218-2018 "Identification of Major Hazard

Installations of Hazardous Chemicals" (Table 1): Listed. Category: Flammable liquid, Critical quantity (t): 500

Labor Protection Regulations for Workplaces Using Toxic Substances : List of Highly Toxic Substances: Not Listed

Regulations on the Administration of Precursor Chemicals: Classification and Catalogue of Precursor Chemicals: Not listed

International Conventions : Stockholm Convention: Not listed. Rotterdam Convention: Not listed. Montreal Protocol: Not listed.

Part 16: Other Information

Preparation and Revision Information: January 5, 2025, Technical Department
Training Recommendation: Please provide relevant training to users.

Disclaimer: The above information is not specific to this product and is for reference only. No warranty is provided. It is believed that the above-mentioned industrial safety and hygiene procedures are generally feasible. However, users should assess for themselves whether the above recommendations are appropriate for their individual circumstances.