VACUUM PLATING SPECIAL UV TOPCOAT

Transparent Sanding Sealer HZ-2B-120B-W
Material Safety Data Sheet (MSDS)

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: Transparent Sanding Sealer

Product code: HZ-2B-120B-W

Supplier: Hunan Hengxing New Materials Technology Co., Ltd.

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Recommended use: For furniture manufacturing, wood building materials, interior decoration, and other wood product processing industries.

2. HAZARDS IDENTIFICATION

China GHS classification:

Skin corrosion/irritation: Category 2

Hazardous to the aquatic environment, chronic: Category 2

Routes of exposure:

Eye and skin contact, inhalation, accidental ingestion.

Possible symptoms after contact:

Eyes: Direct contact may cause severe irritation.

Skin: Causes irritation, itching and redness; excessive exposure may cause skin burns.

Inhalation: Mist may irritate nose and throat; excessive inhalation may cause discomfort such as headache, dizziness, or vomiting.

Ingestion: May cause burns to the mouth, throat, or stomach.

Environmental hazards:

May be harmful to the environment; special attention should be paid to preventing contamination of water bodies and soil.

Fire and explosion hazards:

Flammable liquid; may ignite in high temperature environments above its ignition point.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance / Mixture: Mixture

Component	CAS No.	Content (%)
Polyester acrylate resin	25135-73-3	2–15
Epoxy acrylate resin	1524-32-8	10–30
Filler	—	20–25
TPGDA (Tripropylene glycol diacrylate)	42978-66-5	10–15
TMPTA (Trimethylolpropane triacrylate)	15625-89-5	15–20
Photoinitiator	748-98-5	4–8
Additives	—	0.5–1

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4. FIRST AID MEASURES

Eye contact:

1. Immediately wipe or absorb excess chemical.
2. Hold eyelids open and rinse contaminated eyes with gently flowing lukewarm water.
3. Prevent rinse water from flowing into the unaffected eye.
4. Seek immediate medical attention if symptoms are severe.

Skin contact:

1. Immediately remove contaminated clothing and shoes.
2. Wipe or absorb excess chemical.
3. Wash thoroughly with soap and plenty of water until completely clean.
4. If pain or discoloration occurs, seek medical attention.

Inhalation:

1. Ensure rescuers are properly protected to ensure their own safety.
2. Move the exposed person away from the source to fresh air as quickly as possible.
3. If breathing stops, administer artificial respiration immediately and seek medical care.

Ingestion:

1. If swallowed accidentally, do NOT attempt to rinse the mouth or induce vomiting on your own.
2. Seek immediate medical treatment. Do not allow the person to swallow vomitus. Vomiting should
3. only be carried out under medical supervision.

Protection for first-aiders:

1. Wear protective gloves to avoid direct contact with contaminated material.
2. Advice to physician:
3. In case of ingestion, consider gastric lavage when appropriate.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

Chemical dry powder, carbon dioxide, fire-fighting foam.

Special hazards during fire-fighting:

1. Vapors may be lighter than air and travel to distant ignition sources, causing flashback.
2. Liquid may float on water and spread fire.
3. Containers in a fire may rupture or explode.
4. High temperatures or combustion may produce toxic gases.

Fire-fighting procedures:

1. Withdraw to a safe distance or protected location for fire-fighting.
2. Personnel without appropriate protective equipment must not enter the fire area.
3. Isolate uninvolved materials.
4. Stay upwind to avoid hazardous vapors and smoke.
5. Use water spray to cool exposed tanks or containers.
6. Stop leakage if safe; if not and no immediate danger exists, allow controlled burning.
7. Water spray alone may be ineffective on pool fires unless operated by trained personnel.
8. For large-scale fires, use unmanned water spray monitors or automatic oscillating devices.

Protective equipment for firefighters:

Firefighters must wear self-contained breathing apparatus, fire protective clothing,and protective gloves.

6. ACCIDENTAL RELEASE MEASURES

Emergency response:

For small spills, promptly collect leaked coating into suitable containers and wipe the floor clean with rags to prevent contamination.

Personal precautions:

1. Do not allow unrelated or unprotected personnel to enter the contaminated area until cleanup is complete.
2. Cleanup operations must be carried out by trained personnel.
3. Wear appropriate personal protective equipment.

Environmental precautions:

1. Ventilate the affected area.
2. Remove all sources of ignition.
3. Prevent spilled material from entering sewers or confined spaces.

Methods for containment and cleaning up:

1. If safe, stop or reduce the leak.
2. Small spills: contain with earth, sand, or similar materials, then wash the area with water.
3. Large spills: contact fire and emergency response units for assistance.

7. HANDLING AND STORAGE

Handling:

1. Use in a well-ventilated environment; seal containers tightly after use.
2. Keep away from open flames, arcs, and high-temperature surfaces.
3. Ground equipment to avoid static discharge.
4. Use explosion-proof electrical tools and equipment.

Storage:

1. Store in a dry, cool, well-ventilated place.
2. Avoid direct sunlight; keep away from heat sources and electrical equipment.
3. Do not invert containers; do not store with incompatible substances.
4. Recommended packaging: use clean, uncontaminated original packaging provided by supplier.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls:

1. Use non-sparking, grounded ventilation systems.
2. Exhaust air to the outside with environmental protection measures.
3. Provide sufficient fresh air to compensate for exhaust.
4. Install equipment away from heat sources and high-temperature objects.

Personal protective equipment:

Respiratory protection:

- Below exposure limits: use a mask with organic vapor cartridges as needed.
- Above exposure limits: use positive-pressure full-face supplied-air respirator.

Hand protection:

- Impermeable gloves such as PVC or equivalent high-resistant materials.

Eye protection:

- Chemical safety goggles.

Skin and body protection:

1. Anti-static one-piece protective clothing.
2. Safety work shoes.
3. Emergency shower and eyewash facilities in the work area.

Hygiene measures:

1. Remove contaminated clothing promptly; wash thoroughly before reuse or discard.
2. No smoking, eating, or drinking in the workplace.
3. Wash hands thoroughly after handling.
4. Keep the workplace clean.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Light grey or light yellow viscous liquid

Viscosity: 90–100 s / 40°C

Melting point: No data

Boiling point: No data

Relative density (water = 1): No data

Relative vapor density (air = 1): No data

Saturated vapor pressure: No data

Log Kow: No data

Heat of combustion: No data

Critical temperature: No data

Critical pressure: No data

Flash point: No data

Ignition temperature: No data

Lower/upper explosion limits: No data

Minimum ignition energy: No data

Maximum explosion pressure: No data

Solubility: Insoluble in water; miscible with organic solvents.

Special notes:

This product is an ultra-low VOC, environmentally friendly coating. Parameters such as melting point, boiling point, and explosive limits are not specifically determined.

High temperatures may cause fire. After curing into a film, it provides a certain degree of flame-retardant performance.

10. STABILITY AND REACTIVITY

Stability: Generally stable under recommended storage and use conditions.

Possibility of hazardous polymerization:

- Direct sunlight may initiate polymerization.
- Heating may cause exothermic polymerization.

Incompatible materials:

- Avoid contact with free radicals and radical initiators such as peroxides and metal ions.

Conditions to avoid:

- Direct sunlight, temperatures above 50°C, direct heat sources, friction or other heat buildup.

Hazardous decomposition products:

- No specific data; combustion may produce toxic gases typical of organic substances.

11. EXPOSURE CONTROL AND PERSONAL PROTECTION (SUPPLEMENT)

Maximum allowable concentration: No data.

Testing methods: No data.

Engineering controls: As above.

Respiratory protection:

- Normally does not require self-contained breathing apparatus under proper ventilation.

Eye protection:

- Chemical safety goggles.

Body protection:

- Long-sleeved work clothes.

Hand protection:

- Protective gloves; avoid PVC gloves for prolonged contact with acrylate monomers as PVC may absorb acrylate products.

12. DISPOSAL CONSIDERATIONS

Waste characteristics: No data.

Product:

- Dispose of by controlled incineration or in accordance with national and local regulations.

Contaminated packaging:

- Return emptied containers to supplier where possible or dispose of according to local regulations.

Disposal precautions:

- Refer to relevant national and local regulations before disposal.

13. TRANSPORT INFORMATION

Dangerous goods number: No data

UN number: 1139

UN proper shipping name: Not specified in original (consult current transport regulations)

UN hazard class: No data

Packing group: No data

Marine pollutant: Yes

Recommended packaging:

- Screw-cap glass bottles, crimped-cap glass bottles, plastic bottles, or metal drums in standard wooden boxes.

Transport precautions:

- Check packaging integrity and sealing before transport.
- Ensure no leakage, collapse, fall, or damage during transport.
- Transport vehicles must be equipped with suitable fire-fighting and spill emergency equipment.
- Protect from direct sunlight, rain, and high temperatures.

14. REGULATORY INFORMATION

Applicable regulations (China), including but not limited to:

- Labor Protection Regulations
- Environmental Protection Law of the People's Republic of China
- Road Traffic Safety Law of the People's Republic of China

Reference standards:

- Occupational Exposure Limits for Hazardous Agents in the Workplace (GBZ 2.1—2007)
- Regulations on Safe Management of Hazardous Chemicals (2011)
- Detailed Rules for the Implementation of the Regulations on Safe Management of Hazardous Chemicals (1992)
- Regulations for Safe Use of Chemicals in the Workplace
- Classification and Marking of Commonly Used Dangerous Chemicals (GB 13690-92)
- Safety Data Sheet for Chemical Products – Content and Order of Sections (GB/T 16483-2008)

15. OTHER INFORMATION

Issue date: 10 March 2023

Note:

All information herein is based on our current knowledge and applicable laws.

Users are responsible for taking all necessary measures to comply with local regulations.

This MSDS describes safety requirements for the safe use of the product and does not constitute a guarantee of specific product properties.

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