1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

<table>
<thead>
<tr>
<th>Trade name:</th>
<th>M2347</th>
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<tbody>
<tr>
<td>Chemical identification:</td>
<td>SATURATED CARBOXYL-TERMINATED POLYESTER RESIN</td>
</tr>
<tr>
<td>Intended/recommended use:</td>
<td>POWDER COATING</td>
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</tbody>
</table>

**Identification of the company**
- Company: Yantai Meicheng Advanced Materials Co., Ltd
- Address: #1202 Huanghai Mingzhu No.63 Guanhai RD,Laishan,Yantai, China
- Telephone: +86-535-6397472
- Fax: +86-535-6903929
- Emergency Phone: +86-18953566117

2. COMPOSITION/INFORMATION ON INGREDIENTS

Substances presenting a health or environmental hazard within the meaning of the Dangerous Substance Directive 67/548/EEC:

None.

3. HAZARDS IDENTIFICATION

This product is not hazardous when handled under normal conditions of use.

By excessive exposure to dust coming from the polyester resin, eye and respiratory tract irritation is possible.

4. FIRST AID MEASURES

**General information:**
In all cases of doubt, or when symptoms persist, seek medical attention.

Never give anything by mouth to an unconscious person.

**After inhalation:**
Take to fresh air and seek medical attention.

**After contact with skin:**
Do NOT use solvents nor thinners, an industrial skin cleanser is preferred.

If easy to do, remove any contact lenses.

Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

**After ingestion:**
Stimulate vomiting and seek medical attention.

5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media:**
- foam, CO2 powder, water
- High pressure water jet

**Extinguishing media which must not be used for safety reasons:**
- Fire will produce dense black smoke.
- Exposure to decomposition products may cause a health hazard.
- Keep containers cool by spraying with water if exposed to fire.
- Do not allow run-off from fire fighting to enter drains or water courses.
- Aldehydes and acids can be liberated.
- Thermal decomposition can lead to the evolution of irritant vapor or gases and/or fire.

**Special protective equipment for firefighters:**
Pressure demand self contained breathing apparatus should be provided to firefighters in building or confined area where this product is stored.

6. ACCIDENT RELEASE MEASURES

**Personal precautions:**
Protective measures are listed in sections 7 and 8.

Confine area of spill and transfer spilled product to suitable containers for disposal.

**Environmental precautions:**
Avoid discharge into the environment.

If the product gets into drains, inform the relevant authorities immediately.

**Methods for cleaning up/taking up:**
Sweep up into suitable containers for disposal.

7. HANDLING AND STORAGE

**Handling:**
Comply with the health and safety at work laws.

Information regarding personal protective measures see, section 8.

Always keep in polyethylene bags of same material as the original one.

Avoid the inhalation of dust and/or particulates arising from the application.

Isolate from sources of heat, sparks and open flame.

Do not eat, drink or smoke in application area.

Local exhaust is recommended.
### Storage
- Prevent unauthorized access.
- Polyethylene bags which are opened must be carefully resealed and kept upright to prevent leakage.
- Protect from direct sunlight and all heat sources in order to avoid sintering.

### Specific use guideline(s)
- See the Safe Powder Coating Guideline (CEPE, 5th edition, 2001)

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Exposure limit values – Exposure control

**Remarks to Exposure controls:**
- Local exhaust is recommended.
- Avoid inhalation of dust.

**Personal protection**

**Respiratory protection:**
- Ensure adequate ventilation.
  - Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates below the OEL, suitable respiratory protection must be worn.
  - Under conditions of frequent use or heavy exposure, respiratory protection may be needed.
  - In situations where misting or flying may occur, use appropriate certified respirators.

**Hand protection:**
- Barrier creams may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred.

**Eye protection:**
- Wear suitable gloves.

**Skin protection:**
- Protection from dust by safety glasses.
- None.

**Environmental exposure controls:**
- See the Community Environmental Protection Legislation.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**General information**

**Appearance:** Pale granules

**Odor:** odorless

**Freezing point / interval:** not applicable

**Boiling point / interval:** not applicable

**Flash point:** > 200°C (Method: Cleveland Open Cup)

**Explosion properties:** not applicable

**Vapour pressure:** not applicable

**Density:** 1.2 g/cm³

**Solubility in water:** insoluble

**Octanol/water partition coefficient (log Pow):** Not available

**Fat solubility (solvent-oil):** Not available

### 10. STABILITY AND REACTIVITY

**Condition to avoid:** Protect from heat and direct sunlight

**Materials to avoid:** None.

**Hazardous decomposition products:** None.

### 11. TOXICOLOGICAL INFORMATION

**Toxicological (health) effects and possible symptoms after exposure:**
- When the preparation test-data are not available, the preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified for toxicological hazards accordingly. See sections 2 and 15 for details.

**Information on the product:**
- No specific toxicological data available for this product.

### 12. ECOLOGICAL INFORMATION

When the preparation test-data are not available, the preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified for toxicological hazards accordingly. See sections 2 and 15 for details.
Information on the product:

Ecotoxicity: This product may not be released into water without any treatment.
Persistence and degradability: No data available.
Mobility: No data available.
Bioaccumulative potential: No data available.

13. DISPOSAL CONSIDERATION

Product: The product and its packaging may be disposed of under controlled incineration and in agreement with local and national legislation. Do not allow to enter soil, waterways or waste water canal.

14. TRANSPORT INFORMATION

ADR: Not regulated for transport.
RID: Not regulated for transport.
IMDG: Not regulated for transport.
IATA: Not regulated for transport.

15. REGULATORY INFORMATION

EC: All components may be commercialized according EEC/92/32 directive.
National regulations:

16. OTHER INFORMATION

Recommended restrictions on use: For industrial use only.

References for specific use guidelines:
CEPE = European Council of Paint, Printing Ink and Artists’ Colours Industry; www.cepe.org
ACGIH: American Conference of Governmental Industrial Hygienists; www.acgih.org
BS, MB: Belgisch Staatsblad, Moniteur Belge, Belgisches Staatsblatt
ADR: European Agreement concerning the international Carriage of Dangerous Goods by Road
BOD/COD: Biological/Chemical Oxygen Demand
CAS: Chemical Abstract Service number; www.cas.org
DFG: Deutsche Forschungsgemeinschaft; German Research Community; www.dfg.de
(E)EC: European Community
GBB-VLEP: Grenswaarden voor beroepsmatige blootstelling, Valeurs Limites d’Exposition Professionelle, Occupational Exposure Limits (Belgium)
IATA: International Air Transport Association; www.iata.org
IMDG: International Maritime Dangerous Goods Code
IUCLID: International Unified Chemicals Information Database; http://ecb.jrc.it/
MAK: Maximale Arbeitsplatz-Konzentration; Maximum concentration on the working area
NLP: No Longer Polymer
OECD: Organisation for Economic Co-operation and Development; www.oecd.org
OEL: Occupational Exposure Limit
P.I.I.: Primary Irritation Index
RID: International Agreement Concerning the Transport of Dangerous Goods by Train
STEL: Short Term Exposure Limit
TLV: Threshold Limit Value
TWA: Time Weighted Average

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