1. IDENTIFICATION OF THE PRODUCT

Identification of the Product
Temperature change pink 31 degrees

Use
Thermochromic Microcapsule

Company Identification
Shenzhen Oriental Color Science & Technology Co., Ltd.
Baoan District Songgang Shenzhen Street Red Star Community Road 130
Tel: 86-0755-23092919
Fax: 86-0755-29094419

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance and mixture
Acute toxicity, Oral (Category 4)
Skin imitation (Category 2)

2.2 Label elements

Pictogram

Signal word
Warning

Hazard statement(s)
H302 Harmful if swallowed
H315 Causes skin irritation
H319 Causes serious eye irritation

Precautionary statement(s)
Prevent
P261 Avoid breathing dust/fume/gas/mist/spray
P264 Wash thoroughly after handling
P270 Do not eat. Drink or smoke when using this product
P280 Wear protective gloves
Response
P301 + P312 If swallowed : call a poison center of physician if you feel unwell
P302 + P352 If on skin : Wash with soap and water
P305 + P351 + P338 If in eyes rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P313
P337 + P313
P362
Storage
P405 Store locked up
Disposal
P501 Dispose of contents/container to a licensed company

Supplemental hazard statement(s)
No data available
3. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Characterisation</th>
<th>CAS Number</th>
<th>EINECS Number</th>
<th>Conc.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyoxymethyleneimelamine</td>
<td>9003-08-1</td>
<td></td>
<td>19.0~27.2%</td>
</tr>
<tr>
<td>Styrene maleic anhydride monomethyl</td>
<td>31959-78-1</td>
<td></td>
<td>5.8~7.2%</td>
</tr>
<tr>
<td>- maleate polymer</td>
<td>112-39-0</td>
<td></td>
<td>18.2~19.0%</td>
</tr>
<tr>
<td>Methyl palmitate</td>
<td>111-61-5</td>
<td></td>
<td>42.6~44.3%</td>
</tr>
<tr>
<td>Ethyl stearate</td>
<td>26628-47-7</td>
<td></td>
<td>2.3~4.9%</td>
</tr>
</tbody>
</table>

4. EMERGENCY AND FIRST AID MEASURES

General advice
- If Inhale: Remove from exposure immediately. Use a bag valve mask or similar device to perform artificial respiration (rescue breathing).
- On Skin Contact: Remove contaminated clothing, jewelry, and shoes immediately. Wash with soap or mild detergent and large amounts of water until no evidence of chemical remains (at least 15-20 minutes).
- On Contact with Eyes: Wash eyes immediately with large amounts of water or normal saline, occasionally lifting upper and lower lids, until no evidence of chemical remains. Get medical attention immediately.
- On Ingestion: If vomiting occurs, keep head lower than hips to help prevent aspiration.

5. FIRE-FIGHTING MEASURES

Extinguishing media: Regular dry chemical, carbon dioxide, water, regular foam
Special exposure hazards: Slight fire hazard. Dust-air mixtures may ignite or explode.
Hazardous combustion products: Avoid inhalation of material or combustion by-products.
Protection against fire: Do not scatter spilled material with high-pressure water streams. Dike for later disposal. Use extinguishing agents appropriate for surrounding fire. Stay upwind and keep out of low areas.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions
Environmental precautions

After spillage / leakage: Collect spilled material in appropriate container for disposal. Keep out of water supplies and sewers. Keep unnecessary people away, isolate hazard area and deny entry.
7. HANDLING AND STORAGE

Handling and Storage
Store and handle in accordance with all current regulations and standards. Keep separated from incompatible substances.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protection
- Respiratory protection
Under conditions of frequent use or heavy exposure, respiratory protection may be needed. Respiratory protection is ranked in order from minimum to maximum. Consider warning properties before use.

- Skin protection
Wear appropriate chemical resistant clothing and gloves.

- Eye protection
Wear splash resistant safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

- Ingestion

Industrial hygiene

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and physical state
RoseRed Powder

Color
RoseRed

Odour
Odourless

pH value
Not applicable

Moisture content (%)
< 1%

Specific gravity
Not applicable

Boiling point/range [°C]
Not applicable

Flash point [°C]
Not applicable

Auto ignition temperature
Not determined.

Explosive limit vol % in air
Not Expected.

Vapour Pressure
Not applicable

Solubility in water
Not soluble, dispersed in water.

Solubility in ethanol
Not soluble.

Self-ignition temperature
Not applicable

Explosion limits - upper [%]
No occupational exposure limits established

10. STABILITY AND REACTIVITY

Reactivity
No data available

Chemical stability
No data available

Possible of hazardous reactions
No data available

Condition to avoid
No data available

Incompatible materials
Strong oxidizing agents, Strong bases

Hazardous decomposition products
Thermal decomposition products: oxides of carbon

Other decomposition products
No data available
11. TOXICOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Acute oral Toxicity (LD50)</td>
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</tr>
<tr>
<td>Rabbit dermal LD50 [mg/kg]</td>
<td>No data available</td>
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<tr>
<td>Rat inhalation LD50 [mg/1/4h]</td>
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<tr>
<td>Dermal irritation (rabbit)</td>
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<tr>
<td>Mutagenicity</td>
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<tr>
<td>Reproductive effects</td>
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12. ECOLOGICAL INFORMATION

<table>
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<th>Parameter</th>
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<tbody>
<tr>
<td>Fish Toxicity</td>
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<tr>
<td>Test Species</td>
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<tr>
<td>Test time</td>
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<td>WGK (Water risk class)</td>
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<tr>
<td>Biodegradation [%]</td>
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</table>

13. DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose in accordance with all applicable regulations.

14. TRANSPORT INFORMATION

<table>
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<th>Parameter</th>
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<tbody>
<tr>
<td>UN Number</td>
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<td>UN proper shipping name</td>
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<td>Transport hazard class(es)</td>
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<tr>
<td>Packaging group</td>
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<tr>
<td>Environment hazards</td>
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<tr>
<td>Special precautions for user</td>
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</tbody>
</table>

15. REGULATORY INFORMATION

<table>
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<tr>
<td>TSCA inventory status</td>
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<tr>
<td>TSCA 12(b) export notification</td>
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</tbody>
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16. OTHER INFORMATION

<table>
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<tr>
<th>Parameter</th>
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<tr>
<td>Recommended uses and restrictions</td>
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