

MATERIAL SAFETY DATA SHEET

Page : 1
Issue No. : 1

Date : DEC 05 2014

Product name

Code

Temperature change pink 31 degrees

1. IDENTIFICATION OF THE PRODUCT

Identification of the Product
Use

**Temperature change pink 31
degrees**
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 irritation (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

If skin irritation occurs : Get medical advice/attention

P337 + P313

If eye irritation persists : Get medical advice/attention

P362

Take off contaminated clothing and wash before reuse

Storage

P405

Store locked up

Disposal

P501

Dispose of contents/container to a licensed company

Supplemental hazard statement(s)

No data available

MATERIAL SAFETY DATA SHEET

Page : 2
Issue No. : 1
Date : DEC 05 2014

Product name
Temperature change pink 31 degrees

Code

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Characterisation	CAS Number	EINECS Number	Conc.
Polyoxymethylenemelamine	9003-08-1		19.0~27.2%
Styrene maleic anhydride monomethyl - maleate polymer	31959-78-1		5.8~7.2%
Methyl palmitate	112-39-0		18.2~19.0%
Ethyl stearate	111-61-5		42.6~44.3%
Red DCF	26628-47-7		2.3~4.9%

4. EMERGENCY AND FIRST AID MEASURES

General advice

- If Inhaled 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.

MATERIAL SAFETY DATA SHEET

Page : 3
Issue No. : 1
Date : DEC 05 2014

Product name

Temperature change pink 31 degrees

Code

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

MATERIAL SAFETY DATA SHEETPage : 4
Issue No. : 1

Date : DEC 05 2014

Product name

Code

Temperature change pink 31 degrees**11. TOXICOLOGICAL INFORMATION**

Acute oral Toxicity(LD50)	No data available
Rabbit dermal LD50 [mg/kg]	No data available
Rat inhalation PO50 [mg/1/4h]	No data available
Dermal irritation (rabbit)	No data available
Mutagenicity	No data available
Reproductive effects	No data available

12. ECOLOGICAL INFORMATION

Fish Toxicity	No data available
Test Species	No data available
Test time	No data available
WGK (Water risk class)	No data available
Biodegradation [%]	No data available

13. DISPOSAL CONSIDERATIONS

Waste Disposal	Dispose in accordance with all applicable regulations.
----------------	--

14. TRANSPORT INFORMATION

UN Number	No data available
UN proper shipping name	No data available
Transport hazard class(es)	No data available
Packaging group	No data available
Environment hazards	No data available
Special precautions for user	No data available

15. REGULATORY INFORMATION

TSCA inventory status	No data available
TSCA 12(b) export notification	No data available

16. OTHER INFORMATION

Recommended uses and restrictions	None
-----------------------------------	------

DISCLAIMER OF LIABILITY: The information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

End of document