



# Shandong Tianyin Biotechnology Co., Ltd.

ADD: No.7,Sanying Road, Technology Industrial Zone, Zibo, Shandong, China

## MATERIAL SAFETY DATA SHEET

### SECTION 1 – IDENTIFICATION OF THE SUBSTANCE

Product Name: Lutein/Marigold Flower Extract

### SECTION 2 – COMPOSITION, INFORMATION ON INGREDIENTS

Xanthophyll content: 15g/kg

Hazard Symbols: None

Risk Phrases: None

### SECTION 3 – HAZARDS IDENTIFICATION

Emergency Overview: It has no harm to human and animals.

Potential Health Effects and Symptoms: None

Eye: may cause minimal irritation

Skin: Neither irritation nor sensitization is expected.

Inhalation: Safety

Chronic Effects: Safety

### SECTION 4 – FIRST AID MEASURES

In case of skin contact, flush with soap and water. In case of eyes contact, flush with flowing water.

If swallowed, get medical aid.

Notes to Physician: None

### SECTION 5 – FIRE FIGHTING MEASURES

In case of fire, pls use sandy soil, chemical foam or carbon dioxide.

Unsuitable Extinguishing Media: None

Special Fire Fighting Procedures: None

### SECTION 6 – ACCIDENTAL RELEASE MEASURES

In case of accidental release, pls mix with inert material (eg. dry sand) and transfer to sealed container for disposal.

### SECTION 7 – HANDLING AND STORAGE

Store in a cool, well-ventilated area. Keep away from ignition sources, heat and flame. Store in cool and dry condition.

### SECTION 8 – EXPOSURE CONTROLS, PERSONAL PROTECTION

Exposure Guidelines: Not established for this pigment.

Engineering Controls: Use adequate ventilation

Respiratory protection: Not required

Eye/Face Protection: Not required

Skin Protection: Not required

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Powder                                              Color: Orange  
Odor: characteristic flavor of Marigold Flower      Viscosity: Not available  
Vapor Pressure: Not available                                      Freezing/Melting Point: Not available  
Boiling Point: Not available                                      Autoignition Temperature: Not available  
Explosion Limits, upper: Not available      Explosion Limits, lower: Not available  
Solubility in water: Not available                                      Decomposition Temperature: Not available  
Molecular Formula:  $C_{40}H_{56}O_2$                                       Specific Gravity/Density: Not available  
Molecular Weight: 568.88

## SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability: Steady  
Conditions to Avoid: Humidity and high temperature

## SECTION 11 - TOXICOLOGICAL INFORMATION

Acute Toxicity: No poison  
Inhalation: Not available  
Ingestion: Not available  
Eye: Minimal irritant  
Skin: Non-irritant Others:  
Not available

## SECTION 12 - ECOLOGICAL INFORMATION

Mobility: Not available  
Persistence/Degradability: Not available  
Bioaccumulation: Not available  
Ecotoxicity: Not available  
Other Adverse Effects: Not available

## SECTION 13 - DISPOSAL CONSIDERATIONS

Method of Disposal: Disposal should be subject to federal, state and local laws.

## SECTION 14 - TRANSPORT INFORMATION

UN #: None  
UN Shipping Name: None  
UN Classification: None  
Special Precautions: None  
UN Packing Group: None  
Marine Pollutant: No  
Special Precaution: None  
Reported By: None

## SECTION 15 - REGULATORY INFORMATION

None

## SECTION 16 - OTHER INFORMATION

None

Manufacturer Name: Shandong Tianyin Biotechnology Co., Ltd.