



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 Powder(Xanthophyll)

Catalog Numbers: Feed Additive

SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

Xanthophyll content: 20g-40g/kg

Moisture: 8% max.

Hazard Symbols: None

Risk Phrases: None

SECTION 3 - HAZARDS IDENTIFICATION

Emergency Overview: It belongs to feed additives, and 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: yellowish--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

Company Name: Shandong Tianyin Biotechnology Co., Ltd.