

Material Safety Data Sheet
Product Name : Lutein Ester 20%

Section 1: Chemical Product and Company Identification	
<ul style="list-style-type: none"> • Product Name: Lutein Ester 20% • CAS#: 127-40-2 Botanical Name: Tegets Erecta • Chemical Formula: Not available 	<ul style="list-style-type: none"> • Company Name: ARAMACS • Address : 129, F.I.E., Patparganj Industrial Area, Delhi 110092 INDIA Phone: +91-9560499659 Fax : +91-11-40234610
Section 2: Composition and Information on Ingredients	
<ul style="list-style-type: none"> • Composition: Lutein Ester 20% • Percentage by Weight : 100% 	Toxicological Data on Ingredients: Not applicable.
Section 3: Hazards Identification	
<ul style="list-style-type: none"> • Potential Acute Health Effects : Non hazardous in case of skin contact, irritant in case of eye contact (irritant) of ingestion, of inhalation. • Potential Chronic Health Effects: Not Available. CARCINOGENIC EFFECTS: Not available. 	
Section 4 : Hazards Identification	
<ul style="list-style-type: none"> • Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if needed. • Skin Contact: Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops. Cold water may be used. • Inhalation: If inhaled, remove to fresh air. Get medical attention if any symptoms appear. • Ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear. 	
Section 5: Fire and Explosion Data	
<ul style="list-style-type: none"> • Flash Points: CLOSED CUP: 110°C • Fire Hazards: Flammable in presence of open flames and sparks, of heat. Non- flammable in presence of shocks. • FIRE: Use DRY chemical powder / Sand. LARGE FIRE: Use foam, Water spray or Fog. Flammability of the Product: Not Flammable 	
Section 6: Accidental Release Measures	
<ul style="list-style-type: none"> • Spill: Dilute with Washing Soap & Water and Regular mop up, or absorb with an inert dry material and place in an appropriate Waste Disposal Container. 	
Section 7: Handling and Storage	
<ul style="list-style-type: none"> • Precautions: Keep away from Heat & from sources of ignition. Ground all equipment containing material. Do not ingest. Keep Away From Eyes. • Storage: Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Away from heat & spark Keep tightly closed container. 	
Section 8: Exposure Controls/Personal Protection	
<ul style="list-style-type: none"> • Engineering Controls: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location. • Personal Protection: Splash goggles. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent gloves. 	
Section 9: Physical and Chemical Properties	
<ul style="list-style-type: none"> • Physical state and appearance: Liquid. Odor: redish to redish orange to redish brown • Taste: Bitter. (Slight.) Boiling Point: >85°C Melting Point: -88.5°C (-127.3°F) 	
Section 10: Stability and Reactivity Data	
<ul style="list-style-type: none"> • Stability: The product is Stable. Corrosivity: Non-corrosive in presence of glass. Special Remarks on Reactivity: Not Reactive. • Special Remarks on Corrosivity: Not available. Polymerization: No. 	
Section 11: Toxicological Information	
<ul style="list-style-type: none"> • Routes of Entry: Ingestion. Toxicity to Animals: LD50: Not available. LC50: Not available. • Toxic Effects on Humans: Hazardous in case of ingestion. Non hazardous in case of skin contact (irritant), of inhalation. 	
Section 12: Ecological Information	
<ul style="list-style-type: none"> • Ecotoxicity: Not available. BOD5 and COD: Not available. Products of Biodegradation: Product is Bio-Degradable • Toxicity of the Products of Biodegradation: The products of degradation are non toxic. 	
Section 13: Disposal Considerations	
<ul style="list-style-type: none"> • Waste Disposal: Keep away from drains, surface and ground water. Dispose according to recognized method of chemical waste disposal. 	
Section 14: Transport Information	
<ul style="list-style-type: none"> • DOT Classification: Not a DOT controlled material United States (USA), As per IATA Regulations • Identification: Not applicable. • Special Provisions for transport: Not applicable. <p>The Material Safety Data Sheet (MSDS) should accompany all shipments for reference in the event of spillage or accidental release. Transportation and shipping of this product is not restricted. It has no known, significant hazards requiring special packaging or labeling for air, maritime, or ground transport purposes.</p>	
Section 15: Other Regulatory Information	
<ul style="list-style-type: none"> • WHMIS (Canada): N/A , HMIS (USA): Health: 1 Flammability: 1 Reactivity: 0 SARA 302/ SARA 313: None 	
Section 16: Other Information	
<ul style="list-style-type: none"> • The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and ARAMACS assume no liability resulting from its use. 	