



American International Chemical, Inc.

Corporate Offices: (800) 238-0001

Internet: www.aicma.com Email: info@aicma.com

MATERIAL SAFETY DATA SHEET

LUTEIN POWDER (PIVEG)

SECTION 1 - CHEMICAL PRODUCT AND COMPANY INFORMATION

American International Chemical, Inc. 135 Newbury Street Framingham, MA 01701	Emergency Number: Chemtrec Information Number:	800-424-9300 703-527-3887 800-238-0001
---	---	--

Date: December 2011

Synonyms: β,ϵ -Carotene-3,3'-diol;
3,3'-dihydroxy-d-carotene ((3R,3'R,6'R)-, -carotene-3,3'-diol alpha-carotene-, 3,3'-diol

CAS #: 127-40-2: Lutein
144-68-3: Zeaxanthin
9050-36-6: Maltodextrin
9000-70-8: Fish Gelatin
59-02-9 Tocopherol
137-66-6 Ascorbyl Palmitate

DOT Hazard Class: Not Regulated

SECTION 2 - COMPOSITION AND INFORMATION ON INGREDIENTS

Proprietary blend containing some or all of the following:

5%-25%: Lutein
75%- 95% Balance
Zeaxanthin
Maltodextrin
Fish Gelatin
Tocopherol
Ascorbyl Palmitate

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Brilliant orange-red free flowing flakes that presents little or no health hazard and no unusual hazard if involved in a fire.

POTENTIAL HEALTH EFFECTS:

Skin: May cause skin irritation. May cause discoloration of the skin.

Eyes: May cause irritation or burning.

Inhalation: May cause irritation to the respiratory tract.

Ingestion: Not a hazard with normal industrial usage.

CARCINOGENICITY: Not Identifiable

SECTION 4 - FIRST AID MEASURES

Skin: Immediately wash skin with soap and water for at least 15 minutes.

Eyes: Immediately flush with plenty of water for at least 15 minutes, holding eye lids apart.

Inhalation: Remove to the fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

Ingestion: Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel.

On All Of The Above: Consult a physician if symptoms persist.

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point: Not Available

Flammable Limits: Not Available

Extinguishing Media: In case of small fire use dry chemical powder, In case of large fire use water spray, fog or foam.

Unsuitable extinguishing media: Do not use water jet.

Special Fire Fighting Procedures: Use firefighting procedure that is appropriate to treat surrounding fire. All firefighters should use self-contained breathing apparatus and full fire-fighting turn-out gear.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Isolate hazard area and deny entry to unnecessary or unprotected personnel.

Contain spill, collect and place in a disposal container. Avoid runoff into storm sewers and ditches which lead to waterways, nontoxic and biodegradable, but very slow biodegradation due to low water solubility, strong dyeing effect.

SECTION 7 - HANDLING AND STORAGE

Avoid contact with skin, eyes and clothing. Use with adequate ventilation. Avoid breathing dust. Use normal personal hygiene and housekeeping. Store in cool dry area away from other incompatible materials. Product is slightly hygroscopic and should be stored in a dry area to prevent moisture pick up and caking. Store below 15 °C.

Shelf life: One year from the date of issuance of the COA.

Packaging materials: Aluminum bag.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

RESPIRATORY PROTECTION: Use NIOSH/MSHA approved respirators.

VENTILATION REQUIREMENTS: Ventilate as necessary to eliminate dust from the work area and maintain concentrations below the limit.

SKIN AND EYE PROTECTION: Use rubber or neoprene gloves, chemical goggles and clothing sufficient to protect skin and eyes from dust.

WORK, HYGIENIC PRACTICES: As required to protect skin and eyes from dust, safety showers and/or eye wash should be available. Do not leave food or smoke in work area. Wash thoroughly and remove or clean any contaminated clothing.

EXPOSURE LIMITS: None Established

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: Not Applicable

Vapor Pressure (MM Hg): Not Applicable

Vapor Density (AIR=1): Not Applicable

Specific Gravity (H₂O=1): Not Available

Percent Volatile by Volume (%): Not Applicable

Melting Point: 190-193 °C

Evaporation Rate (Butyl Acetate=1): Not Applicable

Solubility in Water: Not Soluble (water dispersible)

pH: 3.8-4.0 (in aqueous dispersion)

SECTION 10 - STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under normal temperatures and pressures.

HAZARDOUS POLYMERIZATION: Has not been reported.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.

SECTION 11 - TOXICOLOGICAL INFORMATION

LD50/LC50: Not Available.

Carcinogenicity: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology: No information found.

Teratogenicity: None of the contained components have been shown in concentrations $\geq 0.1\%$ to cause tetrrogenicity or embryotoxicity.

Reproductive Effects: None of the contained components have been shown in concentrations $\geq 0.1\%$ to cause reproductive toxicity.

Mutagenicity: No information found.

Neurotoxicity: No information found.

SECTION 12 - ECOLOGICAL INFORMATION

Not Available

SECTION 13 - DISPOSAL CONSIDERATIONS

Dispose of in accordance with all federal, state and local regulations.

RCRA WASTE #: Not Listed

SECTION 14 - TRANSPORTATION INFORMATION

D.O.T. SHIPPING NAME: **LUTEIN POWDER**

SECTION 15 - REGULATORY INFORMATION

OSHA STATUS: Not listed

TSCA STATUS: Listed

CERCLA REPORTABLE REQUIREMENTS: (RQ) None

SARA TITLE III INFORMATION:

Section 302 Extremely Hazardous Substance: Not listed

Section 313 Toxic Chemicals: Not listed

Section 311/312 Hazard Category: Not considered a hazard.

SECTION 16 - OTHER INFORMATION

Reason for Issue: New Product

This information is given without any warranty or representation. It is believed to be correct but does not claim to be all-inclusive and shall be used only as a guide. American International Chemical, Inc., shall not be held liable for any damage resulting from handling or contact with the above product. It is offered solely for your consideration, investigation and verification.