

**INDIA GLYCOLS LIMITED**

Plot No. 2, 3, 4 &amp; 5, Pharmacy, Selaqui, Dehradun –Uttarakhand –India.

**Safety Data Sheet****Material Name: LUTEIN ESTER POWDER 10% CWS****Doc. No.**

QA/MSDS/2023/LEP

**Effective Date: 19-12-2023****Review Before: 2 Year****Page 1 of 7****Section 1: Identification****1.1 Product Identifier****Product Name:** LUTEIN ESTER POWDER 10% CWS**Product Code:** EBMGWS173**CAS-No. :** 547-17-1**Synonym:** beta, epsilon- Carotene-3,3'-diol, (3S,3'R,6'S), Lutein, Xanthophyll**Other means of identification:** NA**Chemical Formula:** NA**1.2 Relevant identified uses of the substance or mixture and uses advised against****1.2.1 Relevant identified uses****Main use category:** Dietary supplement**Use of the substance/mixture:** For professional use only**Function or use category :** Food supplement**1.2.2 Uses advised against****Restrictions on use :** Do not use : Ingestion, Inhalation, Dermal**1.3 Details of the supplier of the safety data sheet****Contact Information (Head Office):**

India Glycols Limited

Plot No. 2-B, Sector-126

Noida-201304 (UP), INDIA

Tel.: +91-120-3090100, 3090200,

Fax: +91-120-3090111, 3090211

**Contact Information (works):**

India Glycols Limited

Plot No. 2,3,4&amp;5, Pharmacy, Selaqui, Dehradun

Uttarakhand –India.

Contact No.: +91-135-2698620

**1.4 Emergency telephone number**

Contact No.: +91-135-2698620

**Distributed by:**

Univar Solutions USA

3075 Highland Pkwy Ste 200

Downers Grove, IL 60515

Telephone: 1-855-429-2661

Emergency phone number:

CHEMTREC 1-800-424-9300

**Section 2: Hazard(s) identification****2.1 Classification of the substance or mixture****Classification according to regulation (EC)No.1272/2008[CLP]**

Acute toxicity - NA

Reproductive toxicity, NA

**2.2 GHS label elements, including precautionary statements****Pictogram(s)**

GHS07

Skin irritation

H315 Causes skin irritation.

Eye irritation

H319 Causes serious eye irritation.

STOT SE 3

H335 May cause respiratory irritation



**INDIA GLYCOLS LIMITED**

Plot No. 2,3,4 &amp; 5, Pharmacy, Selaqui, Dehradun –Uttarakhand –India.

**Safety Data Sheet****Material Name: LUTEIN ESTER POWDER 10% CWS****Doc. No.****QA/MSDS/2023/LEP****Effective Date: 19-12-2023****Review Before: 2 Year****Page 2 of 7**

Label elements · GHS label elements The substance is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms



GHS07 · Signal word Warning

Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapors/spray

P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/ eye protection / face protection.

P302+P352 If on skin: Wash with plenty of water.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312 Call a poison center/doctor if you feel unwell.

P321 Specific treatment (see on this label).

P362+P364 Take off contaminated clothing and wash it before reuse.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification system:

**NFPA ratings (scale 0 - 4)**



Health= 2 Fire= 0 Reactivity= 0





**INDIA GLYCOLS LIMITED**

Plot No. 2, 3, 4 & 5, Pharmacy, Sclaqui, Dchradun –Uttarakhand –India.

### Safety Data Sheet

**Material Name: LUTEIN ESTER POWDER 10% CWS**

**Doc. No.**

QA/MSDS/2023/LFP

**Effective Date: 19-12-2023**

**Review Before: 2 Year**

**Page 3 of 7**

**HMIS-ratings (scale 0-4)**

|            |   |
|------------|---|
| HEALTH     | 2 |
| FIRE       | 0 |
| REACTIVITY | 0 |

Health= 2 Fire= 0 Reactivity= 0

**2.3 Other hazards** Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable

### Section 3: Composition/information on ingredients

#### 3.1 Substances

| Ingredients                                                                                         | CAS Number | %     |
|-----------------------------------------------------------------------------------------------------|------------|-------|
| Lutein ester oleoresin 40%                                                                          | 547-17-1   | 26-30 |
| Polysorbate 80, Sunflower lecithin, Mixed tocopherol, Silicon dioxide, PVP, Mixed Tocopherol, HPMC. | NA         | NA    |

### Section 4: First Aid Measures

#### 4.1 Description of necessary first-aid measures

**Eye Contact:** Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

**Skin Contact:** Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.

**Serious Skin Contact:** Not available.

**Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Serious Inhalation:** Not available.

**Ingestion:** Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

**Remove and wash/dispose of contaminated clothing promptly.**

**4.2 Most important symptoms/effects, acute and delayed:** No data available

**4.3 Indication of immediate medical attention and special treatment needed, if necessary:**

No data available





**INDIA GLYCOLS LIMITED**

Plot No. 2, 3, 4 & 5, Pharmacy, Selaqui, Dehradun –Uttarakhand –India.

### Safety Data Sheet

**Material Name:** LUTEIN ESTER POWDER 10% CWS

**Doc. No.**

QA/MSDS/2023/LEP

**Effective Date:** 19-12-2023

**Review Before:** 2 Year

Page 4 of 7

### Section 5: Fire-fighting measures

**5.1 Extinguishing Media:**

Carbon dioxide, dry chemical powder or appropriate foam. Water spray.

**5.2 Specific hazards arising from the chemical:**

Emits toxic fumes under fire conditions

**5.3 Special firefighting procedures:**

Wear self-contained breathing apparatus and protective clothing to prevent contact with the skin and eyes.

### Section 6: Accidental Release Measures

**6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8

**6.2 Environmental precautions:**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided

**6.3 Methods and materials for containment and cleaning up**

Pick up and arrange disposal. Sweep up and shovel. Keep in suitable, closed containers for disposal.

Protective Action Criteria for Chemicals

PAC-1: Substance is not listed.

PAC-2: Substance is not listed.

PAC-3: Substance is not listed.

### Section 7: Handling and Storage

**7.1 Precautions for safe handling**

Technical measures - processing in closed systems, if possible superposed by inert gas(E.g. nitrogen)

Local exhaust ventilation necessary

Take precautionary measures against electrostatic charging

Avoid dust formation; consider dust explosion hazard

Suitable materials - stainless steel, aluminum, glass, polyethylene, enamel

**7.2 Conditions for safe storage, including any incompatibilities**

Storage conditions - below 5 °C

Protected from light and humidity

Keep container tightly closed

Packaging materials - Tightly closing; material: stainless steel, aluminum, glass, polyethylene.

### Section 8: Exposure Controls/Personal Protection

**8.1 Control parameters:**

**Occupational Exposure limit values:** Not Available

**Biological limit values:** Not Available

**8.2 Appropriate engineering controls:**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**8.3 Individual protection measures, such as personal protective equipment (PPE):**

Eye/face protection: Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection:** Wear impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Handle with gloves. Gloves must



**INDIA GLYCOLS LIMITED**

Plot No. 2, 3, 4 &amp; 5, Pharmacy, Selaqui, Dehradun –Uttarakhand –India.

**Safety Data Sheet****Material Name:** LUTEIN ESTER POWDER 10% CWS**Doc. No.**

QA/MSDS/2023/LEP

**Effective Date:** 19-12-2023**Review Before:** 2 Year**Page 5 of 7**

be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

**Respiratory protection:** Wear dust mask when handling large quantities.

**Thermal hazards:** Not available

**Section 9: Physical and Chemical Properties**

**Physical state and appearance:** Solid free-flowing powder

**Odor:** Non to faint

**Molecular Formula:** Not available.

**Molecular Weight:** Not available.

**Color:** Red yellowish to orange – reddish brown

May contain White starch particle

Sieve analysis 100% through USP standard sieve no. 30 ( $\mu$  595)

**pH (1% soln/water):** Not applicable.

**Melting Point:** Not available

**Critical Temperature:** Not available.

**Specific Gravity:** <1 (Water= 1)

**Vapor Pressure:** Not applicable.

**Vapor Density:** Not available.

**Volatility:** Not available.

**Odor Threshold:** Not available.

**Water/Oil Dist. Coeff.** Not available.

**Ionicity (in Water):** Not available.

**Dispersion Properties:** Dispersed in cold & hot water.

**Solubility:** Soluble in ethanol, acetone

**Section 10: Stability and Reactivity Data**

**10.1 Stability/ Retest Date:** Stable under the conditions mentioned in chapter 7.

**10.2 Conditions to be avoided:** Excess heat, light, exposure to air and moisture/water.

**10.3 Material to be avoided:** atmospheric oxygen, oxidizing agents, reducing agents \*3

**10.4 Hazardous decomposition products:** Unknown

\*3 referring to : Lutein

**Section 11: Information Toxicological****Information on toxicological effects****Toxicity to animal:**

Acute Toxicity: LD50> 2000 mg/kg (oral, rat) \*3

Subacute Toxicity: NOAEL 200mg/kg/d (oral, rat, 28 days) \*3

Subchronic Toxicity: NOAEL 200mg/kg/d (oral, rat, 13 weeks) \*3

Chronic Toxicity: NOAEL > 20mg/kg/d (oral, monkey, 52 weeks) \*3

Mutagenicity: Not mutagenic (Ames Test) \*3

\*3 referring to Lutein

**Remarks:** (RTECS)

**Inhalation:** No data available

**Dermal:** No data available

**Skin Corrosion/irritation:** Non-irritant (Rabbit)



**INDIA GLYCOLS LIMITED**

Plot No. 2,3, 4 &amp; 5, Pharmacy, Selaqui, Dehradun –Uttarakhand –India.

**Safety Data Sheet****Material Name: LUTEIN ESTER POWDER 10% CWS****Doc. No.**

QA/MSDS/2023/LEP

**Effective Date: 19-12-2023****Review Before: 2 Year****Page 6 of 7**

Serious eye damage/eye irritation: Non-irritant (Rabbit)

Respiratory or skin sensitization: No data available

Germ cell mutagenicity Test Type: Ames test system: Salmonella typhimurium Result: negative Remarks: (National Toxicology Program)

Carcinogenicity No data available

Reproductive toxicity No data available

Specific target organ toxicity - single exposure No data available

Specific target organ toxicity - repeated exposure No data available

Aspiration hazard No data available

**11.2 Additional Information**

Endocrine disrupting properties: No data available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigate

**Section 12: Ecological Information****12.1 Toxicity**

Toxicity to fish: no data available

Toxicity to daphnia and other aquatic invertebrates: no data available

Toxicity to algae: no data available

Toxicity to microorganisms: no data available

**12.2 Persistence and degradability:** well inherently biodegradable (82%, 24 h)

(Batch-wise test similar to SCAS with adaptation phase ) \* 4

Air pollution: observe local/national regulations

\*4 referring to Modified starch

**12.3 Bio accumulative potential:** No data available**12.4 Mobility in soil:** No data available**12.5 Other adverse effects:** No data available**Section 13: Disposal Considerations****Waste treatment methods:** Waste must be disposed of in accordance with federal, state and local environmental control regulations.**Regional legislation (waste):** Material should be disposed of in keeping with all local and national legislation.

Packaging should be disposed of in keeping with all local and national legislation. Handle contaminated containers as product. Dispose of this material and its container at hazardous or special waste collection point.

**RCRA waste** - not regulated under RCRA**Section 14: Transport Information****UN-Number**

DOT,IMDG, IATA

Not regulated

**UN-proper shipping name**

DOT,IMDG, IATA

Not regulated

**Transport hazard class(es)**

DOT, AND, IMDG, IATA

Not regulated

**Class****Packing group**

DOT,IMDG, IATA

Not regulated



**INDIA GLYCOLS LIMITED**

Plot No. 2, 3, 4 &amp; 5, Pharmacity, Selaqui, Dehradun –Uttarakhand –India.

**Safety Data Sheet****Material Name: LUTEIN ESTER POWDER 10% CWS****Doc. No.**

QA/MSDS/2023/LEP

**Effective Date: 19-12-2023****Review Before: 2 Year****Page 7 of 7****Environmental hazards:** Not applicable**Special precautions for use:** Not applicable**Transport in bulk according to Annex II of MARPOL.73/78 and the IBC Code:** Not applicable.**UN "Model Regulation":** Not regulated**Section 15: Other Regulatory Information**

US Regulations - Law: hazardous chemical reporting: community right-to know

Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

Sara

Section 355 (extremely hazardous substances): Substance is not listed.

Section 313 (Specific toxic chemical listings): Substance is not listed.

TSCA (Toxic Substances Control Act): ACTIVE

Hazardous Air Pollutants Substance is not listed

Proposition 65

Chemicals known to cause cancer: Substance is not listed.

Chemicals known to cause reproductive toxicity for females: Substance is not listed.

Chemicals known to cause reproductive toxicity for males: Substance is not listed.

Chemicals known to cause developmental toxicity: Substance is not listed.

**Carcinogenic categories**

EPA (Environmental Protection Agency) Substance is not listed.

TLV (Threshold Limit Value) Substance is not listed.

NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out

**Section 16: Other Information**

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 we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. India Glycols Limited shall not be held liable for any damage resulting from handling or from contact with the above product.

