

Material safety data sheet

According to EU Regulation 1907/2006 in the current version

ASTAXANTHIN

1. Identification of the substance/mixture and company

Trade name: Astaxanthin
I.N.C.I. Astaxanthin
CAS No.: 472-61-7
EC No.: 207-451-4
REACH pre-registration No.: No data
Supplier company identification: Elemental SRL, Piața Cazărmii no.15, 410188-Oradea, jud.Bihor, Romania
Tel/Fax: +40259-436.755, www.ellemental.com
Emergency: RO: număr național pentru cazuri de urgență: 021 3183606 Institutul de Sănătate Publică București.
International emergency number: +49 180 2273-112

2. Hazards Identification

2.1 Classification:

Not classified as hazardous according to the Regulation (EC) No 1272/2008.

2.2 Label elements: Not relevant.

2.3 Other hazards: None.

Not identified as PBT or vPvB according to the Annex XIII of the Regulation (EC) No. 1907/2006 as amended.

3. Declaration of ingredients

3.1 Substance Astaxanthin

INCI Name: Astaxanthin

Alternative INCI name: Haematococcus Pluvialis Extract

3.2 Mixture: not applicable

4. First aid measures

4.1 Description of first aid measures:

General information: Remove contaminated soaked clothing immediately.

After inhalation:

Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion. Supply fresh air, if required oxygen, consult a physician.

After contact with skin:

In case of contact with skin wash off with soap and water. Consult a doctor if skin irritation persists.

After contact with eyes:

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Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists consult a physician.

After ingestion: Do not induce vomiting.

Rinse out mouth and give plenty of water to drink.

Never give anything by mouth to an unconscious person.

In the event of persistent symptoms receive medical treatment.

4.2 Most important symptoms and effects:

No symptoms.

4.3 Identification of any immediate medical attention and special treatment needed:

Treat symptoms.

5. Fire fighting measures

5.1 Extinguishing media:

Use water spray, dry chemical, carbon dioxide, or appropriate foam.

5.2 Special hazards arising from the mixture:

Fire may produce:

carbon monoxide and carbon dioxide

5.3 Advice for firefighters:

In case of fire, wear suitable respiratory equipment with positive air supply. Protective suit.

6. Accidental release measures

6.1 Personal precautions: Use personal protective equipment.

Avoid contact with skin, eyes and clothing.

6.2 Environmental precautions: Do not let product enter drains or ground water.

6.3 Methods and materials for containment and cleaning up:

Remove with liquid-absorbing material (sand, peat, sawdust).

Keep suitable, closed containers for disposal.

6.4 Reference to other sections: For disposal see section 13.

7. Handling and storage

7.1 Precautions for safe handling: Keep container tightly closed.

Avoid contact with skin, eyes and clothing.

7.2 Conditions for safe storage, incl. any incompatibilities:

Store in original sealed containers at a dry and light protected place.

Further information on storage conditions: Keep away from food, drink and animal feeding stuffs.

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7.3 Specific end use: Cosmetic ingredient.

8. Exposure controls / personal protection

8.1 Control parameters:

No data available.

8.2 Personal protective equipment:

Respiratory protection: Respiratory protection is not required.

Eye protection: Safety glasses.

Hand protection: Protective gloves.

Hygiene measures: General industrial hygiene practice.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Appearance: red viscous oil

Odour: mild characteristic

Melting point/Freezing point: no data available

Boiling point: no data available

Density: no data available

Vapour Pressure: no data available

Solubility in water: insoluble

Flash point: no data available

Explosion limits: no data available

Ignition temperature: no data available

Self igniting: no data available

9.2 Other information: No additional information available.

10. Stability and reactivity

10.1 Reactivity:

No unusual reactivity.

10.2 Chemical stability:

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions:

No decomposition if used as directed.

10.4 Conditions to avoid:

No data available.

10.5 Incompatible materials:

Strong oxidizing agents.

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10.6 Other decomposition products:

Hazardous decomposition products formed under fire conditions-Carbon oxides.

11. Toxicological information

11.1 Information on toxicological effects:

Acute toxicity: no data available

Inhalation LC 50: no data available

Dermal LD 50: no data available

Skin corrosion/irritation: no data available

Serious eye damage/irritation: no data available

Respiratory or skin sensitization: no data available

Germ cell mutagenicity: no data available

Carcinogenicity: no data available

Reproductive toxicity: no data available

Teratogenicity: no data available

STOT-SE: no data available

STOT-RE: no data available

Aspiration hazard: no data available

Signs and symptoms of exposure: no data available

Synergistic effects: no data available

12. Ecological information

12.1 Toxicity: no data available

12.2 Persistence and degradability: no data available

12.3 Bioaccumulative potential: no data available

12.4 Mobility in soil: no data available

12.5 Results of PBT and vPvB assessment: no data available

12.6 Endocrine disrupting properties: no data available

12.7 Other adverse effects: hazardous to water in general (awg) (self-classified).

Further information: Do not flush into surface water or sanitary sewer system.

13. Disposal considerations

13.1 Waste treatment methods:

Waste must be disposed in accordance with local, regional and national environmental regulations.

Contaminated packaging:

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Empty containers should be taken for local recycling, recovery or waste disposal. Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse. Packaging that cannot be cleaned should be disposed of like the product.

14. Transport information

Land transport (ADR/RID)

- 14.1. UN number: No dangerous good in sense of this transport regulation.
- 14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
- 14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
- 14.4. Packing group: No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

- 14.1. UN number: No dangerous good in sense of this transport regulation.
- 14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
- 14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
- 14.4. Packing group: No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

- 14.1. UN number: No dangerous good in sense of this transport regulation.
- 14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
- 14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
- 14.4. Packing group: No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

- 14.1. UN number: No dangerous good in sense of this transport regulation.
- 14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
- 14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
- 14.4. Packing group: No dangerous good in sense of this transport regulation.
- 14.5. Environmental hazards: ENVIRONMENTALLY HAZARDOUS: No
- 14.6. Special precautions for user: No dangerous good in sense of this transport regulation.
- 14.7. Maritime transport in bulk according to IMO instruments:
No dangerous good in sense of this transport regulation.

Additional information: Cooling transport required at outside temperatures >25°C.

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

- Regulation (EC) No. 1907/2006 (REACH)
- Regulation (EC) No. 1272/2008 (CLP/EU-GHS)
- Regulation (EC) No. 1223/2009 (Cosmetic Regulation)

EU regulatory information: 2004/42/EC (VOC): 0 %

Information acc. to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III).

German regulatory information

Water hazard class (D): hazardous to water in general (awg) (self-classified)

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15.2 Chemical safety assessment:

For this substance a chemical safety assessment has not been carried out.

16. Additional information

Abbreviations and acronyms:

ADR: European agreement concerning the international carriage of dangerous goods by road

IMDG: International maritime dangerous goods code

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

COD: Chemical Oxygen Demand

BOD5: 5-day biochemical oxygen demand

BCF: Bioconcentration factor

LD50: Lethal Dose 50

LC50: Lethal Concentration 50

EC50: Effective concentration 50

Log-POW: Octanol-water partition coefficient

Koc: Partition coefficient of organic carbon

STOT: specific target organ toxicity

SE: single exposure

RE: repeated exposure

IARC: International Agency for Research on Cancer

INCI: International Nomenclature of Cosmetic Ingredients

PBT: persistent, bio-accumulative, toxic for reproduction

vPvB: very persistent, very bio-accumulative

Disclaimer:

This material safety data sheet does not constitute a guarantee of the properties of the product and is not a contractual legal report. The information is given in good faith on the basis of our best knowledge of the product at the indicated time. However, we cannot accept responsibility or liability for any consequences arising from its use, no warranty for correctness and completeness is given. We caution the users against the incurred possible risks when the product is used at other ends than the use for which it was initially planned. It is the user's responsibility during handling, storage and product use to consult the main regulatory texts in force regarding workers and environment protection.