

MATERIAL SAFETY DATA SHEET

2 - Hazards identification:

Concentrated product. Observe good housekeeping procedures.

3 - Composition and information on ingredients:

The product does not belong to any list of substances supposedly hazardous to human or animal health according to EU guideline 548/67 and further amendments, nor to those having recognised exposition limits.

<u>Inci Name:</u>	Helianthus Annuus Seed Oil (≈95%) & Beta-Carotene (≈5%)
<u>Chemical composition:</u>	An infusion of active carotenoid compounds into sunflower oil
<u>CAS number:</u>	8001-21-6 & 7235-40-7
<u>Einecs No:</u>	232-273-9 & 230-636-6
<u>Application:</u>	Skin Conditioning, Emollient, Masking, Antioxidant, Skin Protecting, UV Absorber

4 - First aid measures:

<u>Inhalation:</u>	Remove from exposure site to fresh air. Keep at rest. Obtain medical attention.
<u>Eye contact:</u>	Rinse immediately with plenty of water for at least 15 minutes. Contact a doctor if symptoms persist.
<u>Skin contact:</u>	Remove contaminated clothes. Wash thoroughly with soap & water, flush with plenty of water. If irritation persists, seek medical advice.
<u>Ingestion:</u>	Not harmfully.
<u>Other:</u>	When assessing action take Risk & Safety Phrases into account (Section 15)

5 - Fire - Fighting measures:

<u>Extinguishing media</u>	Use CO ₂ , Dry Powder or Foam type Extinguishers, spraying recommended: extinguishing media to base of flames. Do not use direct water jet on burning material.
<u>Special measures:</u>	Avoid vapour inhalation. Keep away from sources of ignition. Do not smoke. Wear positive pressure self-contained breathing apparatus & protective clothing.
<u>Extinguishing procedures:</u>	Closed containers may build up pressure when exposed to heat and should be cooled with water spray.

6 - Accidental release measures:

<u>Personal precautions:</u>	Avoid inhalation & direct contact with skin & eyes. Use individual protective equipment (safety glasses, waterproof-boots, suitable protective clothing) in case of major spillages.
<u>Environment precautions:</u>	Keep away from drains, soils, surface & ground waters.
<u>Cleaning up methods</u>	Remove all potential ignition sources. Contain spilled material.
<u>Cover for spillages:</u>	With an inert or non-combustible inorganic absorbent material, sweep up and remove to an approved disposal container. Observe state, federal & local disposal regulations.

7 - Handling and storage:

<u>Precautions in handling:</u>	Apply good manufacturing practice & industrial hygiene practices, ensuring proper ventilation. Observe good personal hygiene, and do not eat, drink or smoke whilst handling.
<u>Storage conditions:</u>	Store in tightly closed original container, in a cool, dry & ventilated area away from heat sources & protected from light. Keep air contact to a minimum.
<u>Fire protection:</u>	Keep away from ignition sources & naked flames. Take precautions to avoid static discharges in working area.

8 - Exposure controls and personal protection:

<u>Respiratory protection:</u>	Avoid breathing product vapour. Apply local ventilation where possible.
<u>Ventilation:</u>	Ensure good ventilation of working area.
<u>Hand protection:</u>	Avoid all skin contact. Use chemically resistant gloves if required.
<u>Eye protection:</u>	Use safety glasses.
<u>Work/Hygiene practices:</u>	Wash hands with soap & water after handling.

9 - Physical data and chemical properties:

<u>Form:</u>	Liquid at room temperature
<u>Colour:</u>	Red to orange
<u>Odour:</u>	Slightly earthy
<u>pH:</u>	Neutral
<u>Boiling point (°C):</u>	>100
<u>Specific Gravity @ 20°C:</u>	0.903 – 0.930
<u>Refractive Index @ 20°C:</u>	1.460 – 1.480
<u>Hydrosolubility:</u>	Insoluble
<u>Liposolubility:</u>	Soluble in vegetable oils

10 - Stability and Reactivity:

<u>Reactivity:</u>	It presents no significant reactivity hazards, by itself or in contact with water. Avoid contact with strong acids, alkali or oxidising agents.
<u>Decomposition:</u>	Liable to cause smoke & acrid fumes during combustion: carbon monoxide, carbon dioxide & other non-identified organic compounds may be formed.

11 - Toxicological information:

Non toxic product, used for food preparation.

12 - Ecological information:

<u>Biodegradability:</u>	Data not available however product is expected to be biodegradable
<u>Precautions:</u>	Prevent surface contamination of soil, ground & surface water.

13 - Disposal considerations:

Residue for disposal: According to local regulations.
Waste packing: Observe local regulations.

14 - Transport information:

Road (ADR/RID): N/A
Air (IATA/CAO): N/A
Sea (IMDG): N/A
CHIP: See section 15

15 - Regulatory information:

Hazards: N/A
Symbols: N/A
Safety Phrases: N/A

16 - Other information:

Cosmetics directive 7th amendment: Not restricted, Does not contain allergens.

PACKAGING:

Type	Suitability
Glass	Yes
Lacquer lined steel/tin	Yes
Aluminium	Yes
HPPE	Yes
F/HDPE	Yes
Other plastic	Yes

SHELF LIFE

12 months when stored within advised conditions, retest after 6 months.

Q.C. REQUIREMENTS

In-line with general product specification. Always satisfy suitability for specific application.

The data provided in this material safety data sheet is meant to represent typical data/analysis for this product and is correct to the best of our knowledge. The data was obtained from current and reliable sources, but is supplied without warranty, expressed or implied, regarding it's' correctness or accuracy. It is the user's responsibility to determine safe conditions for the use of this product, and to assume liability for loss, injury, damage or expense arising from improper use of this product. The information provided does not constitute a contract to supply to any specification, or for any given application, and buyers should seek to verify their requirements and product use.

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