





## MSDS

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### Section 1

#### Product Name

#### **Product identification and physical data**

Astaxanthin Natural (4±1%) Haematococcus algae biomass (cracked dried Haematococcus pluvialis microalgae)

#### Product Description

Natural esterified Astaxanthin complex in the form of Haematococcus pluvialis algae biomass.

#### Chemical Name

N/A, complex natural product

#### Molecular Weight

N/A, complex natural product

#### Product Use

Dietary supplement for humans or as animal feed.  
Raw material for the extraction of a concentrated Astaxanthin complex.

#### Cas Number

Not assigned

#### Bulk Density

0.3-0.5 kg/lt

#### Appearance

Red to dark red flakes

#### Odor

Marine, seaweed smell

#### Solubility

**Not soluble in water, forms a suspension**

#### Boiling point

N/A

#### Melting point

N/A

#### Flash Point

>350°C

#### Vapor Pressure

Not significant



## Section 2 Composition

The algae biomass of Haematococcus pluvialis yields the following typical composition after drying.

### Carotenoids

Astaxanthin	4±1% (>90% esterified forms)
Other Carotenoids	
Lutein	<0.5%
B-Carotene	<0.5%
Cantaxanthin	<0.5%
Other	<0.5%

### Preservative

Rosemary Oil Extract <0.5%

Protein 17-25%

Carbohydrates 30-40%

Ash 2-4%

Fat 20-35%

Moisture <5%

Heavy Metals <10ppm

### Microbiological Specs.

Aerobic total count	<10 <sup>9</sup> CFU/gr
Coliform Group	<10 <sup>2</sup> CFU/gr
E. Coli	<10 <sup>2</sup> CFU/gr
Enterococcus	<10 CFU/gr
Molds	<10 <sup>2</sup> CFU/gr
Yeast	<10 <sup>3</sup> CFU/gr
Bacillus Cereus	<50 CFU/gr
Salmonella	Negative

There are no additives to the product. This product is free of pesticides, synthetic antioxidants or synthetic dyes.



### Section 3

#### Fire and Explosion Hazard

Fire: avoid open flames, dust is flammable.

Explosion: no hazard.

Fire extinguishing media: any mean suitable for extinguishing surrounding fire.

Fire events: wear full protective clothing and approves self contained breathing apparatus with full face protection.

Unusual fire or explosive hazards: none known.

### Section 4

#### Reactivity Data

Hazardous decomposition products: none.

Hazardous polymerization: will not occur.

Incompatibility: N/A.

Stability: store in vacuum-sealed bags at or less than 4°C. Avoid light and air. Avoid contact with hot surfaces. Avoid oxidizing agents.

### Section 5

#### Leak/Spill Disposal Information

Wear protective clothing to avoid staining.

Personnel may require respiratory protection from dust.

Spills: sweep up and containerize for reclamation or disposal.

Vacuuming or wet sweeping may be used to avoid dust dispersion.

Ensure compliance with local, state, and federal regulations.

Wash area with soap and water to avoid staining.



## Section 6

### Health Hazard Information

Inhalation: prolonged breathing of dust may irritate respiratory track.

Ingestion: non toxic if ingested in reasonable quantities, may cause vomiting if ingested in large quantities.

Skin contact: no effect. May cause staining.

Eye contact: may cause redness.

Chronic exposure: N/A.

\* persons with respiratory problems may be susceptible to dust exposure.

#### First Aid:

Inhalation: remove person to fresh air. If breathing is difficult give oxygen and ask for medical care.

Skin exposure: wash with soap and water.

Temporary staining may result.

Eye exposure: wash eyes with plenty of water for about 20 minutes. Seek medical care.

## Section 7

### Toxicity Data

Non toxic

Non mutagenic

Non carcinogenic

Occupational exposure: no limitations have been established by OSHA, NIOSH or ACGIH.

Personal respirators (NIOSH approved) may be worn with safety goggles.

## Section 8

### Ecological Information N/A

The information given in good faith is believed to be accurate and has been compiled from reliable sources.

Buyer assumes all risk of use, storage and handling according to regulation.

This information given in good faith is believed to be accurate.

The information was compiled from different reliable sources.

Buyer assumes all risks of use, storage and handling according to the local regulations.