



Jingzhou Natural Astaxanthin Inc

Material Safety Data Sheet (MSDS)

NaturAsta™ Food Grade Haematococcus pluvialis Powder

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Section 1 Product Name	Product identification and physical data NaturAsta Food Grade <i>Haematococcus pluvialis</i> Powder
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	472-61-7
Bulk Density	0.45 kg/L
Appearance	Red to dark red powder
Odor	Marine, seaweed smell
Solubility Boiling point	Not soluble in water, forms a suspension N/A
Melting point	N/A
Flash Point	>350°C
Vapor Pressure	Not significant



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Section 2

Composition

The algae biomass of *Haematococcus pluvialis* yields the following typical

composition after drying.

Carotenoids

Astaxanthin 2.0-2.3% (>90% esterified forms)

Other Carotenoids

Lutein <0.5%

B-Carotene <0.5%

Cantaxanthin <0.5%

Other <0.5%

Preservative

Protein 14-25%

Carbohydrates 30-40%

Ash 14-17%

Moisture <7%

Heavy Metals <10ppm

Microbiological Specs.

Coliform Group Molds <1*10⁴ CFU/gr

Salmonella Negative

There are no additives to the product. This product is free of pesticides,



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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 22°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.



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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.