

Identification of the Substance/Preparation and the Company/Undertaking

1. Substance or preparation trade name: **BioAstin[®] 4 mg Natural Astaxanthin Vegetarian Gelcaps**

Unique reference numbers(s): BioAstin[®] is a US registered trademark, Serial # 75775254, registration # 2448406.

Company/undertaking name & address:
Cyanotech Corporation
73-4460 Queen Kaahumanu Hwy #102
Kailua Kona, Hawaii, USA
808-329-1353

Emergency telephone number: 808-329-4519

2. Composition

Substance: Gelatin capsules containing oleoresin from *Haematococcus* algae meal, natural vitamin E, and safflower oil.

% content: *Haematococcus pluvialis* microalgae extract, 10-18%
Safflower oil (high-oleic, non-GMO), 80-88%
Vitamin E (natural, non-GMO), 2%

shell: Gelcap Shell
(Components listed from most to least in quantity. Gelcap shell composition percentages are considered proprietary.)
Corn Starch (Non-GMO)
SeaGel[™] (carageenan-seaweed extract)
Sorbitol
Glycerin
Water

CAS Number: CAS Registry # for free Astaxanthin: 472-61-7.
Classification: N/A
EINECS: N/A

3. Hazards Identification

Most important hazards: Avoid contact of oil in eyes.
Specific hazards: N/A

4. First aid measures

Skin contact: Not allergenic.
Eye contact: May cause redness and irritation; wash with plenty of water or saline.
Ingestion: Non-Toxic.

5. Fire fighting measures

Suitable extinguishing media: Use any means suitable for oil fires.
Unsuitable extinguishing media: Avoid water in extinguishing fires.
Special hazards in fire: Rags and other materials containing this material may heat and spontaneously ignite if exposed to air. Store wiping rags in metal cans with tight fitting lids.

Required special protective equipment

for fire-fighters:

Wear full protective clothing and NIOSH-approved self contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode. Use foam, dry chemical or CO₂. Not considered to be an explosion hazard.

6. Accidental release measures

Personal precautions:

Clean-up personnel may require eye protection.

Environmental precautions:

N/A

Methods for cleaning-

Small spill:

Add solid adsorbent, shovel into disposal container and hose down area.

Large spill:

Squeegee or pump into holding container. Dispose in accordance with local, state and federal regulations.

7. Handling and storage

Handling:

Eye protection, no special equipment required. May stain clothing, lab coat, or similar. Protective clothing recommended.

Technical measures/precautions-

Storage:

Keep in a tightly closed container at room temperature and low humidity. Avoid exposure to heat, light, and air. Protect container from physical damage.

8. Exposure Controls

Engineering measures:

N/A

Control Parameters:

Keep in a tightly closed container.

Personal protection equipment:

Lab coat or similar protective clothing recommended. Proper respiratory protection should be worn in presence of vegetable oil mist.

Eye protection:

Eye protection.

Hand protection:

No effect. Gloves may be appropriate for sensitive individuals.

Hygiene measures:

Keep in a tightly closed container. Oil may stain clothing.

9. Physical and chemical properties

Appearance:

Dark red oil slurry.

Odor:

Bland seaweed smell.

pH:

Boiling point:

Greater than 100 °C.

Smoke point:

218 °C.

Melting point:

N/A

Flashpoint:

330 °C.

Fire point:

357 °C.

Explosive properties:

Not considered to be an explosion hazard.

Vapor pressure:

Similar to vegetable oils.

Relative density: 1 gram / ml
Solubility: Not soluble in water, forms an emulsion.

10. Stability and reactivity

Conditions to avoid: Substance is stable, hazardous polymerization will not occur. Avoid heat, light, and air.
Materials to avoid: No known incompatibles. 0% volatile by volume.
Hazardous decomposition products: N/A

11. Toxicological information

Acute toxicity: Non-toxic. No known mutagenicity or carcinogenicity.
Local effects: Non-toxic.
Excessive exposure may affect human health as follows-
Skin contact: No effect.
Eye contact: May cause redness and irritation.
Inhalation/ingestion: In the presence of any vegetable oil mist, proper respiratory protection should be worn. Vegetable oil mists are classified as a respiratory "nuisance particulate" with no health effects by the American Conference of Governmental Industrial Hygienists.
Ingestion: Non-toxic.

12. Ecological information

Non-GMO

13 Disposal Considerations

Spills-
Small spill: Add solid adsorbent, shovel into disposal container and hose down area.
Large spill: Squeegee or pump into holding container. Dispose in accordance with local, state and federal regulations.

14. Transport information

Classification data-
DOT Hazard Class: Not Regulated. This material is not hazardous under Labor Department regulations.
Product class: Refined vegetable oil.

15. Regulatory information

ISO 9001:2000 Certified
State of Hawaii, Dept. of Health, Food Establishment Permitted
NPA-GMP Certified

16. Additional Information, Recommendations/Restrictions and/or Sources:

