

**Material Safety Data Sheet for Astaxanthin Oleoresin 10%****1. Chemical Product Identification**

Product name: Astaxanthin Oleoresin 10%

Chemical family: Carotenoids

Manufacturer: AlphyEurope the corporate division of AminoSwiss AG

Add: Seefeldstrasse 22, CH 8280, Kreuzlingen, Switzerland.

Tel: Tel. +41 71 52 568 52

**2. Composition/Information on Ingredients**

Astaxanthin:  $\geq 10\%$  (>90% esterified forms)

Other Carotene

Lutein: <0.5%

$\beta$ -Carotene: <0.5%

Canthaxanthin: <0.5%

Other: <0.5%

**3. Hazard Identification**

Human health hazards: No harmful effects have been identified.

Inhalation: No applicable at ambient temperature.

Skin contact: Unlikely to be irritant.

Eye contact: Can cause irritant.

Ingestion: Unlikely to be harmful unless excessive amounts are swallowed.

Physical-chemical hazards: None identified. Environment hazards: None identified.

**4. First Aid Measures**

Inhalation: Remove to fresh air.

Skin contact: Remove contaminated clothing. Wash with plenty of water and soap. Seek medical attention if any sensitization might persist.

Eye contact: Flush eyes with copious amounts of water. If irritant persists, seek medical attention.

Ingestion: Product may be ingested without any adverse effects.

## **5. Fire Fighting Measures**

Extinguishing media: CO<sub>2</sub>, foam or dry chemical, water.

Specific hazards: As with any fine particulate matter, accumulation of excessive dust on Overhead structures may produce explosive concentration when disturbed and dispersed.

Protection of fire fighters: Self-contained breathing apparatus, full protective clothing.

## **6. Accidental Release Measures**

Precautions: In heated condition exists risk of splattering in case of contact with waste. Be aware of slipping.

Precautions for the environment: Prevent draining into open water. Collect spilled material and dispose of in accordance with local regulations, preferably by incineration.

Methods for cleaning: Spillages and uncontrolled discharges should be kept separately, and processed as waste.

Other information: Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.

## **7. Handling And Storage**

Prevention of fire or explosion: Risk of explosion in case of welding on empty drums/tanks.

Handling: Palletized drums and pails should be handled carefully. Stacking of more than two pallets on top of one another should be avoided.

Storage: Sealed in original packaging and use it as quick as possible once opened. Recommended to store under 4°C.

Shipment can be handled at room temperature.

Special precautions:

None.

## **8. Exposure Controls/Personal Protection**

Personal precautions: Avoid contact with skin and eyes.

Eye protection: Safety glasses.

Skin protection: Gloves. Hygiene measures: Handle in accordance with good occupation hygiene.

Ventilation: Ensure ventilation or local exhaust if formation of vapors occurs.

Occupation exposure limits: None established.

## 9. Physical And Chemical Properties

Appearance: Oleoresin

Color: Dark-red

Odor: Seaweed freshness

Solubility in water: Dispersible in water

Bulk density: 0.88-0.90g/ml

Flash point: >350°C

Other Properties: More detailed information on the physical and chemical properties can be provided by supplier.

## 10. Stability and Reactivity

Stable under normal condition Materials to avoid: Strong oxidizing agents

Hazardous decomposition products: N/A

Hazardous polymerization: Will not occur.

## 11. Toxicological Information

Toxicological: Non-toxic.

Mutagenic: Non-mutagenic

Carcinogenic: Non-mutagenic

## 12. Ecological Information

Biodegradability: Readily biodegradable .

## 13. Disposal Considerations

Waste disposal method: According to local regulation (suitable for incineration).

Contaminated packaging: Wash off with water

Danger(s): None

## 14. Transport Information

Land/Sea/Air transport: Not restricted.

**15.Regulatory Information**

EC regulation: N/A.

EC classification: Not dangerous.

Label name: N/A.

Hazard symbols: N/A.

Risk phrases: None.

Safely phrases: None.

**16.Other Information**

The statements made here are supposed to describe the product with regards to necessary safety precautions. They do not guarantee special characteristics and are made to the best of our current knowledge.