



MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY

TRADE NAME: ASL™ Kelp Meal or Flour
APPLICATION: Dried and ground marine plant.
Producer/Importer: Acadian Seaplants Limited
Address: 30 Brown Avenue
Postal Code & City: Dartmouth, Nova Scotia, Canada, B3B 1X8
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Contact Person: David Hiltz
Issued By: Technical Department (Acadian Seaplants Limited)

2. COMPOSITION OF PRODUCT

No.	Ingredients Name	CAS-NO	Cons. (weight%)	Classification
1	Dried Marine Algae	n/a	100%	IK

Legend: T⁺ = Very Toxic, T = Toxic, C = Corrosive, Xn = Harmful, Xi = Irritant, IK = No Classification Required, E = Explosive, O = Oxidizing, F⁺ = Extremely Flammable, F = Very Flammable, Fo = Flammable, N = Dangerous to Environment, Mu = Genetoxic, Sens = Sensitizing, Care = Carcinogen, Repr = Causes Birth Defects

3. HAZARD IDENTIFICATION

This product does not require labeling.

4. TOXICITY INFORMATION & FIRST AID**GENERAL**

Non-hazardous material. If irritation or discomfort occurs, seek medical advice from a physician.

EYE CONTACT

Non-irritating to ocular tissue. In case of exposure flush eyes with plenty of water. Seek medical attention if irritation occurs.

SKIN CONTACT

Non-irritating to skin. Wash with mild soap and water. Seek medical attention if discomfort occurs.

INHALATION

Non-toxic. Do not intentionally breathe dust.

INGESTION

Non-toxic if ingested.

OVER EXPOSURE

Not applicable.

5. FIRE FIGHTING MEASURES**FLASH POINT**

Not applicable.

FLAMMABLE LIMITS

Not applicable.

PROPER FIREFIGHTING EQUIPMENT

Use extinguishing media appropriate for surrounding fire.

FIRE AND EXPLOSION HAZARDS

Non-flammable. Non-explosive.

6. UNINTENTIONAL LIBERATION OR RELEASE MEASURES**SAFETY MEASUREMENTS TO PROTECT PERSONS**

Gloves, dust masks, and eye protection should be worn when handling.

PROPER METHODS FOR DAMAGE LIMITATION AND CLEANUP

Spills may be easily cleaned by removing as much solid as possible and washing remaining spill with copious amounts of water. Avoid loose product on floor in damp areas as product may become slippery with the addition of clean-up water.

7. HANDLING AND STORAGE

HANDLING ADVICE

Use personal protective equipment as specified in section 8.

STORAGE

Store in a cool place. Avoid exposure to high humidity or moisture levels.

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

EXPOSURE CONTROL

No specific ventilation requirements. Eyewash facilities should be available.

RESPIRATION PROTECTION

Dust masks should be worn when handling.

EYE PROTECTION

Eye protection should be worn when handling.

HAND PROTECTION

Gloves should be worn when handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Flakes or Powder	Organic Matter	60 – 70 %
Color	Olive green	Ash Minerals	20 – 25 %
Odor	Marine-like	Maximum Moisture	13 %
Solubility	Insoluble	Percent Volatile (by Volume)	Not Applicable
Melting Point/Range	Not Applicable	Bulk Density	0.6-0.8 g/cm ³
Expl. Limit LEL-UEL. %-%	Not Applicable	Solubility in Water	Insoluble
Vapor Pressure	Not Applicable	Saturation Conc.	Not Determined
Decomposition Temp.	Approx 550°C	Rel. Density Sat. Air (Air=1)	Not Determined
pH Value	6-8	Boiling Point/Range	Not Determined
Flash Point	Not Applicable	pH Concentrate	Not Applicable
Molecular Weight	Not Applicable	Viscosity	Not Applicable
Ignition Temp.	Approx 550°C	Smelling Limits lo-hi	Not Determined
Rel. Vapor Density (air=1)	Not Applicable	Rel. Evap. Velocity	Not Determined
Air Reactive	Not Applicable	Water Reactive	Not Applicable

10. STABILITY AND REACTIVITY**STABILITY**

Product is stable.

CONDITIONS TO AVOID

Excessive humidity or moisture levels.

MATERIALS TO AVOID

None

HAZARDOUS DECOMPOSITION PRODUCTS

Not applicable.

HAZARDOUS POLYMERIZATION

Will not occur.

11. ECOLOGICAL INFORMATION**BREAKDOWN**

Biodegradable.

ECOTOXITY

Nutritional supplement, high concentrations may cause burning of plants.

ADDITIONAL INFORMATION

Product presents minimal environmental impact.

12. DISPOSAL CONSIDERATIONS

Not classified as hazardous waste. Product must be disposed of according to Federal, State or local procedures.

13. TRANSPORT INFORMATION**GENERAL**

Non-hazardous material according to transport regulations. No special precautions are necessary.

14. REGULATORY INFORMATION**COMPOSITION**

Dehydrated and ground marine algae (*Ascophyllum nodosum*) (100%).

R-PHRASES

The product does not require labeling. Marking according to hazardous product regulations is not required.

REFERENCES

The MSDS is prepared on basis of information given by the manufacturer.

16. OTHER INFORMATION**ISSUED: March 2004****VENDOR NOTES**

Every endeavor has been made to ensure that the information contained in this MSDS leaflet is reliable, but we cannot accept liability for any loss, injury or damage, which may result from its use or misuse. Data given in this MSDS is solely for the guidance in safe handling and use of the product by customers; they do not form part of any specification. If any difficulties arise, we shall be glad to discuss them. Customers are encouraged to conduct their own tests following discussion with our technical department. The above information is based on experience, but it is always advisable for customers to satisfy themselves, by consultation with our technical department and small-scale testing is necessary, that product, which they have selected, is suitable for their purpose under their conditions of use.