



MATERIAL SAFETY DATA SHEET

Toggle™

1. PRODUCT AND COMPANY

TRADE NAME: Toggle

APPLICATION: Extract from algae (*Ascophyllum nodosum*)

USE: Fertilizer

Producer/Importer: Acadian Seaplants Limited

Address: 30 Brown Avenue

Postal Code & City: Dartmouth, Nova Scotia, Canada, B3B 1X8

Telephone: (902) 468-2840

Fax: (902) 468-3474

Contact Person: David Hiltz

Issued by: Technical Department

2. HAZARD IDENTIFICATION

This product does not require labeling.

3. COMPOSITION OF PRODUCT

No.	Ingredients Name	CAS-NO	Cons. (weight%)	Classification
1	Extract from algae	84775-78-0	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 = Genotoxic, Sens = Sensitizing, Car = Carcinogen, Repr = Causes Birth Defects				

4. FIRST AID**GENERAL**

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

EYE CONTACT

Immediately flush eyes with plenty of water. Keep eyes wide open while flushing. Seek medical attention if irritation occurs.

SKIN CONTACT

Wash with mild soap and water. Seek medical attention if discomfort occurs.

INHALATION

Do not intentionally breathe vapors.

INGESTION

Drink plenty of water or milk. Seek medical attention if discomfort occurs.

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. Caution, slippery in liquid form or when mixed with water.

FIRE AND EXPLOSION HAZARDS

Non-flammable. Non-explosive.

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

Gloves and eye protection should be worn when handling based on staining.

PROPER METHODS FOR DAMAGE LIMITATION AND CLEANUP

Spills may be easily cleaned by removing as much material as possible and washing remaining spill with copious amounts of water. Product may become slippery with the addition of clean-up water. Gloves and eye protection should be worn due to temporary staining.

7. HANDLING AND STORAGE

HANDLING ADVICE

Avoid handling which may cause staining. Use personal protective equipment as specified in *Section 8*.

STORAGE

Store in cool place and out of direct sunlight. Keep from freezing below -15° C. Do not contaminate water, food or feed by storage or disposal.

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

EXPOSURE CONTROL

No specific ventilation requirements. Eyewash facilities should be available.

RESPIRATION PROTECTION

No respirator is required.

EYE PROTECTION

Eye protection should be worn when handling due to temporary staining.

HAND PROTECTION

Gloves should be worn when handling due to temporary staining.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Liquid	Air Reactive	n/a
Color	Black	Percent Volatile (by Volume)	n/a
Odor	Marine-like	Density	1.04 g/cc
Solubility	100% Water Soluble	Solubility in Water	100% at 20°C
Melting Point/Range	n/a	Saturation Conc.	Not Determined
Expl. Limit LEL-UEL. %-%	n/a	Rel. Density Sat. Air (Air=1)	Not Determined
Vapor Pressure	Not Determined	Boiling Point/Range	100°C (212° F)
Decomposition Temp.	Not Determined	pH	5.4–6.3
Flash Point	Not Determined	Viscosity	<15 cP
Molecular Weight	n/a	Smelling Limits lo-hi	Not Determined
Ignition Temp.	550°C	Rel. Evap. Velocity	Not Determined
Rel. Vapor Density (air=1)	Not Determined	Water Reactive	n/a

10. STABILITY AND REACTIVITY**STABILITY**

Product is stable

CONDITIONS TO AVOID

Excessive heat or freezing

MATERIALS TO AVOID

Oxidants and acids may cause degradation

HAZARDOUS DECOMPOSITION PRODUCTS

Not applicable

HAZARDOUS POLYMERIZATION

Will not occur

11. TOXICOLOGICAL INFORMATION**ACUTE ORAL TOXICITY**

Non-toxic orally. Ingestion of significant amounts may cause nausea and discomfort.

ACUTE OCULAR TOXICITY

Non-irritating to the ocular tissue of non-irrigated eyes.

ACUTE DERMAL TOXICITY

Not toxic dermally. No treatment-related effects were observed.

ACUTE DERMAL IRRITATION

No irritation or corrosive effects were observed.

INHALATION TOXICITY

Not hazardous by inhalation.

SKIN SENSITIZATION

Very slight erythema observed with no other signs of irritation.

12. ECOLOGICAL INFORMATION**BREAKDOWN**

Biodegradable. Product presents minimal environmental impact.

ECOTOXICITY

Plant nutritional supplement and growth stimulant, high concentrations may cause burn of plants. Non toxic to marine algae, vertebrates or invertebrates.

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION**GENERAL**

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

15. REGULATORY INFORMATION**COMPOSITION**

Extract from algae (*Ascophyllum nodosum*)

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 2015

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 to ensure the product which they have selected is suitable for their purpose under their conditions of use.