

## SAFETY DATA SHEET

### Toggle®

#### 1. IDENTIFICATION

**Product Identifier:** Toggle®

**Other Means of Identification:** Extract from algae (*Ascophyllum nodosum*)

**Uses:** Agricultural input, nutritional supplement for plants

**Recommended Use:** Apply according to usage instructions on the product label.

**Producer/Importer:** Acadian Seaplants Limited

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**Issued By:** Technical Department (Acadian Seaplants Limited)

#### 2. HAZARDS IDENTIFICATION

**GHS Classification:** Not classified

This product is not hazardous and does not require hazard identification.

#### 3. COMPOSITION / INFORMATION ON INGREDIENTS

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 = Genetoxic, Sens = Sensitizing, Care = Carcinogen, Repr = Causes Birth Defects

#### 4. FIRST AID MEASURES

**GENERAL**

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

**EYE CONTACT**

Non-irritating to ocular tissue. Immediately flush eyes with plenty of water. Keep eyes wide open while flushing. 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 vapors.

**INGESTION**

Non-toxic if ingested. Drink plenty of water or milk. Seek medical attention if discomfort occurs.

**OVER EXPOSURE**

Not applicable.

**MOST IMPORTANT SYMPTOMS, ACUTE AND DELAYED**

Not applicable.

**IMMEDIATE MEDICAL ATTENTION REQUIRED**

Not applicable.

#### 5. FIRE FIGHTING MEASURES

**FLASH POINT**

Not applicable.

**FLAMMABLE LIMITS**

Not applicable.

**SUITABLE EXTINGUISHING MEDIA**

Use extinguishing media appropriate for surrounding fire.

**SPECIFIC HAZARDS ARISING FROM THE CHEMICAL**

Non-flammable. Non-explosive.

**COMBUSTION PRODUCTS**

Not hazardous

**PRECAUTIONS**

Product may be slippery.

#### 6. ACCIDENTAL RELEASE MEASURES

**SAFETY MEASUREMENTS TO PROTECT PERSONS**

Gloves and eye protection should be worn when handling due to temporary 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. 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 temperature between 23 °F (-5 °C) and 104 °F (+40 °C), away from sunlight. No specific ventilation requirements. Eyewash facilities should be available. Do not contaminate water, food or feed by storage or disposal.

**8. EXPOSURE CONTROL AND PERSONAL PROTECTION****EXPOSURE LIMITS**

None assigned.

**APPROPRIATE ENGINEERING CONTROLS**

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**

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

**10. STABILITY AND REACTIVITY****REACTIVITY**

Product is not reactive.

**STABILITY**

Product is stable.

**CONDITIONS TO AVOID**

Excessive moisture, heat or freezing.

Do not store below 23 °F (-5 °C) for prolonged periods of time as the product is aqueous and may freeze.

**MATERIALS TO AVOID**

Oxidants and strong 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.

**CARCINOGENICITY**

Not listed by IARC, NTP, or OSHA as a carcinogen.

**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.

**GROUNDWATER CONSIDERATIONS**

Not harmful if accidentally discharged into groundwater. Use manufacturer recommended rates of crop application. Do not allow large quantities of the product to reach ground water, water course or sewage system.

**13. DISPOSAL CONSIDERATIONS**

Not classified as hazardous waste. Product must be disposed of according to federal, state or local procedures regarding fertilizing materials.

**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 SDS is prepared on basis of information given by the manufacturer.

**16. OTHER INFORMATION**

**ISSUED: September 2021**

**VENDOR NOTES**

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