

Safety Data Sheet

according to the Hazardous Products Regulation (WHMIS 2015) Issue date: 2023-06-28 Revision date: 2024-10-10 Supersedes: 2024-04-30 Version: 1.2

SECTION 1: Identification

1.1. Product identifier		
Product form Trade name Product group	: Mixture : Toggle [®] : Trade product	
1.2. Recommended use and restrictions on	use	
Recommended use	: Fertilizer supplement and plant biostimulant	
1.3. Supplier		
Acadian Plant Health, a division of Acadian Seaplants Limited 30 Brown Avenue Dartmouth, Nova Scotia B3B 1X8 Canada T +1 902 468 2840, F +1 902 468 3474 info@acadian.ca, www.acadianplanthealth.com		
1.4. Emergency telephone number		
Emergency number	 For chemical emergency call Chemtrec (CCN # 1017009) 24hr/day 7days/week Within USA and Canada: 1-800-424-9300 Outside USA and Canada, collect calls accepted: +55 11 4349 1359 (South America) 	

Outside USA and Canada, collect calls accepted: +55 11 4349 1359 (South America) +52 55 8526 4930 (Central America) +44 20 3885 0382 (EMEA) +65 3163 8374 (APAC)

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification (GHS CA)

Not classified

2.2. GHS Label elements, including precautionary statements

GHS CA labelling

No labelling applicable

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS CA)

No additional information available

Safety Data Sheet

according to the Hazardous Products Regulation (WHMIS 2015)

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
Ascophyllum nodosum, extract	Ascophyllum nodosum, ext. / seaweed extract	CAS-No.: 84775-78-0	Confidential	Not classified

Full text of hazard classes and H-statements: see section 16.

SECTION 4: First-aid measures		
4.1. Description of first aid measures		
First-aid measures after inhalation First-aid measures after skin contact First-aid measures after eye contact First-aid measures after ingestion First-aid measures general	 Remove person to fresh air and keep comfortable for breathing. Wash skin with plenty of water. Rinse eyes with water as a precaution. Call a poison center or a doctor if you feel unwell. If you feel unwell, seek medical advice. 	
4.2. Most important symptoms and effects	(acute and delayed)	
Symptoms/effects Symptoms/effects after inhalation Symptoms/effects after skin contact Symptoms/effects after eye contact Symptoms/effects after ingestion Chronic symptoms	 Not expected to present a significant hazard under anticipated conditions of normal use. None under normal conditions. None under normal conditions. None under normal conditions. None under normal conditions. No effects known. 	
4.3. Immediate medical attention and special treatment, if necessary		
Other medical advice or treatment	: Treat symptomatically.	
SECTION 5: Fire-fighting measures		
5.1. Suitable extinguishing media		
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.	
5.2. Unsuitable extinguishing media		
No additional information available		
5.3. Specific hazards arising from the hazardous product		
Fire hazard Explosion hazard	No fire hazard.No direct explosion hazard.	
5.4. Special protective equipment and precautions for fire-fighters		
Firefighting instructions Protection during firefighting Precautionary measures fire	 Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. Evacuate area. 	

Safety Data Sheet

according to the Hazardous Products Regulation (WHMIS 2015)

SECTION 6: Accidental release measures		
6.1. Personal precautions, protective equipment and emergency procedures		
General measures	: Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.	
6.2. Methods and materials for containment and cleaning up		
For containment	: Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.	
Methods for cleaning up	: Take up liquid spill into absorbent material.	
Other information	: Dispose of materials or solid residues at an authorized site.	
6.3. Reference to other sections		

For further information refer to section 8: "Exposure controls/personal protection"

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling Hygiene measures Additional hazards when processed	 Ensure good ventilation of the work station. Wear personal protective equipment. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Not expected to present a significant hazard under anticipated conditions of normal use.
7.2. Conditions for safe storage, includ	ing any incompatibilities
Technical measures Storage conditions Packaging materials	 Store in a well-ventilated place. Keep container tightly closed. Store at temperatures not exceeding - 5 to 40 °C. Store always product in container of same material as original container.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering control	S
Appropriate engineering controls Environmental exposure controls	Ensure good ventilation of the work station.Avoid release to the environment.
8.3. Individual protection measures/Personal protective equipment	

Personal protective equipment:

Wear recommended personal protective equipment.

Hand protection:

Protective gloves
Eye protection:

Safety glasses

Skin and body protection: Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Safety Data Sheet

according to the Hazardous Products Regulation (WHMIS 2015)

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: No data available
Colour	: Black
Odour	: Marine
Odour threshold	: No data available
рН	: 5.5 – 6.5
Relative evaporation rate (butyl acetate=1)	: No data available
Relative evaporation rate (ether=1)	: No data available
Melting point	: Not applicable
Freezing point	: <0°C
Boiling point	: >100 °C
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: > 1.04 g/cm ³
Solubility	: Soluble in water
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: Not available
Viscosity, dynamic	: <100 cP
Explosive properties	: Not explosive
Oxidizing properties	: Not oxidizing
Explosive limits	: Not applicable

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity	ty
Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use.
Conditions to avoid	: None under recommended storage and handling conditions (see section 7).
Incompatible materials	: No additional information available
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hardening time	: Not applicable.

Safety Data Sheet

according to the Hazardous Products Regulation (WHMIS 2015)

11.1. Information on toxicological e	fects	
Acute toxicity (oral) Acute toxicity (dermal)	: Not classified : Not classified	
Acute toxicity (inhalation)	: Not classified	
Toggle®		
LD50 oral rat	> 5000 mg/kg bodyweight	
LD50 dermal rat	> 2000 mg/kg bodyweight	
LC50 inhalation - rat	> 5.01 mg/l/4h	
Skin corrosion/irritation	: Not classified	
Serious eye damage/irritation	pH: 5.5 – 6.5 : Not classified pH: 5.5 – 6.5	
Respiratory or skin sensitization	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Reproductive toxicity	: Not classified	
STOT-single exposure	: Not classified	
STOT-repeated exposure	: Not classified	
Aspiration hazard	: Not classified	
Viscosity, kinematic	: Not available	

SECTION 12. Ecological Information		
12.1. Toxicity		
6, C	The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.	
Hazardous to the aquatic environment, short-term : (acute)	Not classified.	
Hazardous to the aquatic environment, long-term : (chronic)	Not classified.	
Ascophyllum nodosum, extract (84775-78-0)		
LC50 - Fish [1]	> 100 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Static system, Fresh water, Experimental value, GLP)	
ErC50 Algae	> 100 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)	
EC50 72h - Algae [2]	> 100 mg/l Test organisms (species): <i>Pseudokirchneriella subcapitata</i> (previous names: <i>Raphidocelis subcapitata, Selenastrum capricornutum</i>)	

12.2. Persistence and degradability

Toggle®	
Persistence and degradability Not rapidly degradable	
Ascophyllum nodosum, extract (84775-78-0)	
Persistence and degradability	Not readily biodegradable in water.

Safety Data Sheet

according to the Hazardous Products Regulation (WHMIS 2015)

12.3. Bioaccumulative potential		
Toggle®		
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	
Ascophyllum nodosum, extract (84775-78-0)		
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	
Partition coefficient n-octanol/water (Log Pow)	≤ 3.3 (Weight of evidence approach, EU Method A.8: Partition Coefficient, 22 °C)	
12.4. Mobility in soil		
Toggle®		
Ecology - soil	No (test)data on mobility of the substance available.	
Ascophyllum nodosum, extract (84775-78-0)		
Surface tension	51.1 mN/m (20 °C, 1 g/l, OECD 115: Surface Tension of Aqueous Solutions)	
Ecology - soil	No (test)data on mobility of the substance available.	
12.5. Other adverse effects		

Ozone

: Not classified

SECTION 13: Disposal considerations	5
13.1. Disposal methods	
Regional waste regulation Waste treatment methods Sewage disposal recommendations Product/Packaging disposal recommendations Additional information	 Disposal must be done according to official regulations. Dispose of contents/container in accordance with licensed collector's sorting instructions. Disposal must be done according to official regulations. Disposal must be done according to official regulations. Do not re-use empty containers.

SECTION 14: Transport information			
In accordance with TDG / DOT / IMDG / IATA			
14.1. UN number			
Not regulated for transport			
14.2. UN proper shipping name			
Proper Shipping Name (TDG) Proper Shipping Name (DOT) Proper Shipping Name (IMDG) Proper Shipping Name (IATA)	 Not regulated Not regulated Not regulated Not regulated 		
14.3. Transport hazard class(es)			
Transport hazard class(es) (DOT) Transport hazard class(es) (TDG) Transport hazard class(es) (IMDG) Transport hazard class(es) (IATA)	 Not regulated Not regulated Not regulated Not regulated 		

Safety Data Sheet

according to the Hazardous Products Regulation (WHMIS 2015)

14.4. Packing group	
Packing group (DOT) Packing group (TDG) Packing group (IMDG) Packing group (IATA)	 Not regulated Not regulated Not regulated Not regulated Not regulated
14.5. Environmental hazards	
Other information	: No supplementary information available.
14.6. Special precautions for user	
DOT TDG IMDG IATA	 Not regulated Not regulated Not regulated Not regulated Not regulated
14.7. Transport in bulk according to A	Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. National regulations

Ascophyllum nodosum, extract (84775-78-0)

Listed on the Canadian DSL (Domestic Substances List)

SECTION 16: Other information		
Issue date	: 2023-06-28	
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Safety Data Sheet (SDS), Canada

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.