

## SECTION 1: Identification

### 1.1. Product identifier

Product form	: Substance
Trade name	: AscoStar™
IUPAC name	: <i>Ascophyllum nodosum</i> extract
Substance type	: UVCB
CAS-No.	: 84775-78-0
Product group	: Trade product

### 1.2. Recommended use and restrictions on 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)  
+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

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Substance type : UVCB  
 Name : AscoStar™  
 EC-No. : 283-907-6

Name	Chemical name/Synonyms	Product identifier	%	Classification (GHS CA)
<i>Ascophyllum nodosum</i> , extract	<i>Ascophyllum nodosum</i> , ext. / seaweed extract	CAS-No.: 84775-78-0	> 95	Not classified

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

#### 3.2. Mixtures

Not applicable

### SECTION 4: First-aid measures

#### 4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.  
 First-aid measures after skin contact : Wash skin with plenty of water.  
 First-aid measures after eye contact : Rinse eyes with water as a precaution.  
 First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.  
 First-aid measures general : If you feel unwell, seek medical advice.

#### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.  
 Symptoms/effects after inhalation : None under normal use. Dust of the product, if present, may cause respiratory irritation after excessive inhalation exposure.  
 Symptoms/effects after skin contact : None under normal conditions. Dust may cause irritation in skin folds or by contact in combination with tight clothing.  
 Symptoms/effects after eye contact : None under normal conditions. Dust from this product may cause eye irritation.  
 Symptoms/effects after ingestion : None under normal conditions.  
 Chronic symptoms : 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 : No fire hazard.  
 Explosion hazard : No direct explosion hazard.

### 5.4. Special protective equipment and precautions for fire-fighters

Firefighting instructions	: Fight fire with normal precautions from a reasonable distance. Do not enter fire area without proper protective equipment, including respiratory protection.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
Precautionary measures fire	: Evacuate area.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.
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### 6.2. Methods and materials for containment and cleaning up

For containment	: Using a clean shovel, put the material in a dry container and cover without compressing it.
Methods for cleaning up	: Mechanically recover the product.
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	: Ensure good ventilation of the work station. Wear personal protective equipment. Protect from moisture. Avoid raising dust. Do not breathe dust.
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
Additional hazards when processed	: Not expected to present a significant hazard under anticipated conditions of normal use.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Store in a well-ventilated place. Keep container tightly closed.
Storage conditions	: Store at temperatures not exceeding -5 to 40 °C.
Packaging materials	: 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 controls

Appropriate engineering controls	: Ensure good ventilation of the work station.
Environmental exposure controls	: 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

**Personal protective equipment symbol(s):**

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Flakes
Colour	: Black
Odour	: Marine
Odour threshold	: No data available
pH	: 10 – 10.5
pH solution concentration	: 1 %
Relative evaporation rate (butyl acetate=1)	: No data available
Relative evaporation rate (ether=1)	: No data available
Melting point	: Not applicable
Freezing point	: Not applicable
Boiling point	: Not applicable
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non flammable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 0.5 – 0.75 g/cm <sup>3</sup>
Solubility	: Soluble in water
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
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

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

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified  
 Acute toxicity (dermal) : Not classified  
 Acute toxicity (inhalation) : Not classified

AscoStar™ (84775-78-0)	
LD50 Oral Rat	> 5000 mg/kg bodyweight
LD50 Dermal Rat	> 2000 mg/kg bodyweight
LC50 Inhalation - Rat (Dust/Mist)	> 2.88 mg/l/4h

Skin corrosion/irritation : Not classified  
 pH: 10 – 10.5  
 Serious eye damage/irritation : Not classified  
 pH: 10 – 10.5  
 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 applicable

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general : 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, <i>Danio rerio</i> , Static system, Fresh water, Experimental value, GLP)
ErC50 Algae	> 100 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, <i>Pseudokirchneriella subcapitata</i> , 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</i> , <i>Selenastrum capricornutum</i> )

#### 12.2. Persistence and degradability

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

### 12.3. Bioaccumulative potential

#### *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

#### *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

### 13.1. Disposal methods

Regional waste regulation : Disposal must be done according to official regulations.  
 Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.  
 Sewage disposal recommendations : Disposal must be done according to official regulations.  
 Product/Packaging disposal recommendations : Comply with applicable regulations for solid waste disposal.  
 Additional information : 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) : Not regulated  
 Proper Shipping Name (DOT) : Not regulated  
 Proper Shipping Name (IMDG) : Not regulated  
 Proper Shipping Name (IATA) : Not regulated

### 14.3. Transport hazard class(es)

Transport hazard class(es) (DOT) : Not regulated  
 Transport hazard class(es) (TDG) : Not regulated  
 Transport hazard class(es) (IMDG) : Not regulated  
 Transport hazard class(es) (IATA) : Not regulated

### 14.4. Packing group

Packing group (DOT) : Not regulated  
 Packing group (TDG) : Not regulated  
 Packing group (IMDG) : Not regulated  
 Packing group (IATA) : Not regulated

### 14.5. Environmental hazards

Other information : No supplementary information available.

### 14.6. Special precautions for user

DOT	: Not regulated
TDG	: Not regulated
IMDG	: Not regulated
IATA	: Not regulated

### 14.7. Transport in bulk according to 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	: 06-15-2023
Revision date	: 09-30-2024
Supersedes	: 04-17-2024

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.