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VALAGRO Safety Sheet  
Date: 03/092021 Rev. 1.1  
Product: MC EXTRA  
Code: 2325  
Print Date: September 3, 2021

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## **SAFETY SHEET**

### **MC EXTRA**

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#### **SECTION 1: IDENTIFICATION**

##### 1.1. Product Identifier

Trade name: MC EXTRA  
Chemical Name: Ascophyllum nodosum, ext.  
CAS Registry number: 84775-78-0  
EC N°: 283-907-6

##### 1.2. Relevant identified uses of the substance or mixture and uses advised against Recommended use:

Fertilizer

##### 1.3. Details of the supplier of the safety data sheet

AGRITRADE  
1 Robin Mann Place  
Christchurch Airport  
Christchurch 8053  
New Zealand  
Ph 03 341 4587  
Fax 03 341 4584  
Free Phone 0800 333 855  
[agritrade@nzagritrade.co.nz](mailto:agritrade@nzagritrade.co.nz)

##### 1.4. Emergency telephone number:

Emergency number	: 24 Hour Emergency Contact: 0800 CHEMCALL (0800 243622)
NZ POISON CENTRE CONTACT	: 111 Police, Ambulance and Fire Brigade (available in New Zealand only) 0800 764 766 (National Poisons Information Centre)

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#### **SECTION 2: HAZARD(S) IDENTIFICATION**

##### 2.1. Classification of the substance or mixture:

Classification according to the Hazardous Substances (Classification) Notice 2020, New Zealand:  
The product is not classified as hazardous

Classification according to OSHA Hazard Communication Standard (29 CFR 1910.1200):  
The product is not classified as dangerous

##### EC regulation criteria 1272/2008 (CLP):

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).

##### Adverse physicochemical, human health and environmental effects:

No other hazards

##### 2.2. Label elements

None

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- 2.3. Other hazards  
vPvB Substances: None - PBT Substances: None  
Other Hazards:  
No other hazards

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### **SECTION 3: Composition/information on ingredients**

- 3.1. Substances  
Not applicable  
3.2. Mixtures  
Hazardous and related classification:  
None

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### **SECTION 4: FIRST AID MEASURES**

- 4.1. Description of necessary measures:  
In case of skin contact:  
Immediately take off all contaminated clothing.  
Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.  
Wash thoroughly the body (shower or bath).  
Remove contaminated clothing immediately and dispose of safely.  
After contact with skin, wash immediately with soap and plenty of water.  
In case of eyes contact:  
After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.  
Protect uninjured eye.  
In case of Ingestion:  
Never give anything by mouth to an unconscious person; if person is conscious rinse mouth with water and then give plenty of water to drink. Do not induce vomiting unless instructed to do so by medical personnel. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.  
In case of Inhalation:  
Remove casualty to fresh air and keep warm and at rest.
- 4.2. Most important symptoms/effects, acute and delayed:  
Possible symptoms that may occur:  
Inhalation:  
Possible irritation to the respiratory tract  
Skin:  
Possible irritation according to the contact time with the product  
Eye:  
Possible irritation according to the contact time with the product  
Ingestion:  
Possible irritation of mouth and digestive tract.
- 4.3. Indication of immediate medical attention and special treatment needed:  
In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).  
Treatment:  
No data available

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### **SECTION 5. FIRE-FIGHTING MEASURES**

- 5.1. Suitable (and unsuitable) extinguishing media.

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Suitable extinguishing media:

Water.

Carbon dioxide (CO<sub>2</sub>).

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2. Specific hazards arising from the chemical

Do not inhale explosion and combustion gases.

Burning produces smoke containing carbon oxides, nitrogen oxides

5.3. Special protective equipment and precautions for fire-fighters.

Use suitable breathing apparatus, protective clothing, eye protection and gloves resistant to chemicals according to EN469

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

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## SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective clothes giving a total skin protection, nitrile gloves and safety glasses.

See protective measures under point 7 and 8.

Ensure adequate ventilation, move people in a safe place.

Avoid dust generation

Avoid any accumulation of electrostatic charge which may create a hazardous condition and cause an ignition.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Dilute with water and retain contaminated wash water and dispose in authorized facilities or pick up in clean plastic containers, label and reuse as fertilizer.

In case of seepage into waterways, soil or sewage system inform authorities responsible.

Material suitable for collecting: absorbent material, soil, sand

Collect the product absorbed for example using shovel and broom

6.3. Methods and material for containment and cleaning up

Wash with plenty of water, contain the spill with absorbent material.

Collect the product absorbed, for example using shovel and broom

6.4. Reference to other sections

See also section 8 and 13

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## SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Don't use empty containers before they have been cleaned.

Before making transfer operations, ensure that there aren't any incompatible material residues in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Keep in the original package in a cool well-ventilated place, away from sources of heat

Keep away from food, drink and feed.

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Incompatible materials:  
Bases, acids, oxidizing and reducing agents.  
Instructions as regards storage premises:  
Adequately ventilated premises.  
Avoid dust generation.  
Dusts at sufficient concentrations can form explosive mixtures with air  
Avoid any accumulation of electrostatic charge which may create a hazardous condition and cause an ignition.

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1. Exposure limit values:  
No WES or BEI set as at 12<sup>th</sup> Edition of Workplace exposure standards (Nov 2020)
- 8.2. Appropriate engineering controls.  
No specific requirements.  
The personal protective equipment must be compliant to the regulation UNI –EN in force
- 8.3. Individual protection measures, such as personal protective equipment:  
Please observe the usual precautionary measures for handling of chemicals.  
The personal protective equipment must be compliant to the regulation UNI –EN in force

### Eye protection:

Use close fitting safety goggles according to the standard EN 166, don't use eye lens

### Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton

### Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. nitrile, P.V.C., neoprene or rubber according to EN 374

### Respiratory protection:

In case of dust generation, use anti-powder mask with P2 (FFP2) filters according to the EN 149:2001

The powder exposition limit must be respected.

### Thermal Hazards:

None Known

### Environmental exposure controls:

None

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Black micro-flakes
Odour:	odour of seaweed
Odour threshold:	N.A.
pH 25% water solution at 77°F:	9-10
Melting point / freezing point:	> 300°C
Initial boiling point and boiling range:	not applicable
Flash point:	Not applicable.
Evaporation rate:	Not applicable.
Flammability (Solid/gas):	Not flammable.
Upper/lower flammability or explosive limits:	Not applicable
Vapour pressure:	not applicable, solid
Vapour density:	not applicable, solid

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Apparent density: 0.5-0.9 Kg/dm<sup>3</sup>  
 Solubility in water: 500 g/l at 68°F  
 Lipid solubility: N.A.  
 Partition coefficient (n-octanol/water): LogKow: -3.3 at 71.6 °F  
 Auto-ignition temperature: Not applicable  
 Decomposition temperature: Not applicable  
 Viscosity: Not applicable  
 Explosive properties: Not explosive  
 Oxidising properties: Not oxidising  
 Particle characteristics: No data available

## SECTION 10: STABILITY AND REACTIVITY

- 10.1. Reactivity  
Stable under normal conditions
- 10.2. Chemical stability  
Stable under normal conditions
- 10.3. Possibility of hazardous reactions  
N.A.
- 10.4. Conditions to avoid  
Avoid high temperatures.
- 10.5. Incompatible materials  
Bases, acids, oxidizing and reducing agents.
- 10.6. Hazardous decomposition products  
In case of fire and high temperatures can develop carbon oxides (CO<sub>x</sub>), nitrogen oxides (NO<sub>x</sub>).

## SECTION 11: TOXICOLOGICAL INFORMATION

- 11.1. Information on toxicological effects

acute toxicity:	
No acute toxicity study is provided because due the nature of the substance. The product is not deemed to pose any toxicological hazard	
oral	not available
skin	not available
Inhalation	not available
skin corrosion/irritation:	not irritant (rabbit, OECD 404)
serious eye damage/irritation:	mild irritant (rabbit, OECD 405)
respiratory or skin sensitisation:	no data available
aspiration hazard:	no data available
Reproductive/developmental toxicity:	no data available; because due the nature of the substance. The product is not deemed to pose any toxicological hazard
germ cell mutagenicity:	not classified as mutagenic
Carcinogenicity:	No data available. Not required
repeated dose toxicity	no data available; because due the nature of the substance. The product is not deemed to pose any toxicological hazard
STOT-single exposure	no data available

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STOT-repeated exposure	no data available
STOT-repeated exposure	no data available

Possible symptoms that may occur:  
 Inhalation:  
 Possible irritation to the respiratory tract  
 Skin:  
 Possible irritation according to the contact time with the product  
 Eye:  
 Possible irritation according to the contact time with the product  
 Ingestion:  
 Possible irritation of mouth and digestive tract.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

#### **Short-term toxicity to fish:**

LC50 (96h) Danio rerio (freshwater): > 100 mg/L  
 (OECD Guideline 203 Fish acute Toxicity Test; Neri, M.C. & Noé F. (2010b))

#### **Short-term toxicity to aquatic invertebrates:**

IC50 (48 h) Daphnia magna (freshwater): > 100 mg/L  
 (OECD Guideline 202 Daphnia sp. Acute immobilisation test) xicity; Neri, M. C. & Noé, F. 2010)

#### **Toxicity to algae and aquatic plant:**

EyC50 (72 h) Pseudokirchnerella sub capitata (freshwater): 60.35 mg/L based on yield rate  
 ErC50 (72 h) Pseudokirchnerella sub capitata (freshwater): > 100mg/L based on grow rate  
 EyC10 (72 h) Pseudokirchnerella sub capitata (freshwater): 17.74 mg/L based on yield rate  
 ErC10 (72 h) Pseudokirchnerella sub capitata (freshwater): 39.52 mg/L based on grow rate  
 EyC20 (72 h) Pseudokirchnerella sub capitata (freshwater): 25.99 mg/L based on yield rate  
 ErC20 (72 h) Pseudokirchnerella sub capitata (freshwater): 63.51 mg/L based on grow rate  
 (OECD Guideline 201 Alga, Grwth Inhibition Test; Neri, M. C. & Noé, F. 2010c)

### 12.2. Persistence and degradability

Biodegradable organic substance which may require a Biochemical Oxygen Demand.  
 In general, the plant extract appear to be biodegradable with a low environmental impact (>60% of biodegradation is reached within 17 days). The degradation products are naturally occurring elements.

### 12.3. Bioaccumulative potential

The product is very soluble in water and logKow is negative, therefore a low potential for bioaccumulation or bioconcentration is expected.

### 12.4. Mobility in soil

The product is very soluble in water, therefore it is not expected to adsorb to the sediment

### 12.5. Results of PBT and vPvB assessment

The A. nodosum extract is neither a PBT nor a vPvB substance  
 The aschophyllum nodosum extract does not bioaccumulate or bioconcentrate due to its high water solubility and negative calculated log Kow.  
 In addition the product is readily biodegradable, >60% of biodegradation is reached within 17 days and the degradation products are normally occurring elements

### 12.6. Other adverse effects

None

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### SECTION 13: DISPOSAL CONSIDERATIONS

- 13.1. Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging:  
Product :Recover if possible. In so doing, comply with the local and national regulations currently in force. Contact local authorities who will provide guidance regarding the disposal of special waste.  
Packaging: Dispose according to regulations.

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### SECTION 14: TRANSPORT INFORMATION

- 14.1. UN number  
Not classified as dangerous in the meaning of transport regulations.
- 14.2. UN proper shipping name  
N.A.
- 14.3. Transport hazard class(es)  
N.A.
- 14.4. Packing group  
N.A.
- 14.5. Environmental hazards  
ADR-Environmental Pollutant: No  
IMDG-Marine pollutant: No
- 14.6. Special precautions for user  
N.A.
- 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code  
N.A.

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### SECTION 15: REGULATORY INFORMATION

#### New Zealand

- Classification : Classified as non-hazardous according to Hazardous Substances (Classification) Notice 2020, New Zealand
- ACVM ACT 1997 : Exempt from registration under the Agricultural Compounds and Veterinary Medicines Act 1997

#### USA -Regulations

- Hazard Communication Standard (HCS) Haz Com 2012  
OSHA, 29 CFR 1910.1200(g) and Appendix D. United Nations Globally Harmonized System of Classification and Labelling of Chemicals (GHS), third revised edition, United Nations, 2009.  
Hazard Communication Standard  
United Nations Recommendations on the Transport of Dangerous Goods.  
OSHA Permissible Exposure Limit  
[29 CFR 1926.55 Appendix A](#)  
American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV)  
National Institute for Occupational Safety and Health (NIOSH) Recommended Exposure Limit (REL)  
Chemical Abstracts Service (CAS) Registry Number

#### EU-Regulations

- Contains no REACH substances with Annex XVII restrictions  
Contains no substance on the REACH candidate list

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## SECTION 16: OTHER INFORMATION , INCLUDING DATE OF PREPARATION OR LAST REVISION

Issue date: September 3, 2021

This document was prepared by a competent person who has received appropriate training.

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

N.A.	no data available
ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
LTE:	Long-term exposure.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STE:	Short-term exposure.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWATLV:	Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
WGK:	German Water Hazard Class.