

### SECTION 1: Identification of the substance/mixture

#### 1.1. Product identifier

Product form : Substance (UVCB)  
Trade name : BF<sub>4</sub> Seaweed Extract

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

Use of the substance/mixture : Plant Biostimulant  
Fertiliser Supplement

#### 1.3. Supplier

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#### 1.4. Emergency telephone number

Emergency number : Product is non-toxic and non-hazardous  
Please dial 911 for any local emergencies

### SECTION 2: Hazards identification

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

##### GHS USA Classification

Not classified

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

To our knowledge, this product does not present any risk, provided it is handled in accordance with good occupational hygiene and safety practice.

#### 2.2. Label elements

##### GHS US Labelling

No labelling applicable

#### 2.3. Other hazards which do not result in classification

No additional information available

#### 2.4. Unknown acute toxicity (GHS US)

Not applicable

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Chemical Abstract Number	EC Number	% inclusion
Seaweed extract derived from <i>Ascophyllum nodosum</i>	CAS No. 84775-78-0	EC No. 283-907-6	> 5
Amino acid derivative	CAS No. 57-00-1	EC No. 200-360-6	> 1

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### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures general	: If you feel unwell, seek medical advice.
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.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.
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#### 4.3. Indication of any immediate medical attention and special treatment needed

This product may contain trace levels of fish or crustaceans. Adverse reactions may occur in sensitive persons. If irritation or discomfort occurs, seek medical advice.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media	: Water spray. Dry powder. Foam.
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#### 5.2. Specific hazards arising from the substance or mixture

Fire hazard	: No fire hazard.
Explosion hazard	: No explosion hazard.

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

Firefighting instructions	: Fight fire from safe distance and protected location. 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.

### SECTION 6: Accidental release measures

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

Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	: Ventilate spillage area. Evacuate unnecessary personnel

#### 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

For containment	: Take up liquid spill into absorbent material.
Methods for cleaning up	: Mechanically recover the absorbed product.
Other information	: Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the workstation. Wear personal protective equipment. Comply with local legal requirements.
- Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

- Storage conditions : Store at temperatures not exceeding -5 to 40 °C.
- Storage area : Keep container tightly closed. Store in a dry area. Comply with local requirements.
- Packaging materials : Store 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

##### 8.2.1. Appropriate engineering controls

**Appropriate engineering controls:** Ensure good ventilation of the workstation.

##### 8.2.2. Personal protection equipment

**Personal protective equipment:** Wear recommended personal protective equipment.

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



##### 8.2.2.1. Eye and face protection

**Eye protection:** Safety glasses

##### 8.2.2.2. Skin protection

**Skin and body protection:** Wear suitable protective clothing

**Hand protection:** Protective gloves

##### 8.2.2.3. Respiratory protection

**Respiratory protection:** In case of insufficient ventilation, wear suitable respiratory equipment

##### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

**Environmental exposure controls:**

Avoid release to the environment.

**Consumer exposure controls:**

The substance is not classified for human health hazards or for environment effects. For tasks where the intervention of workers is required, the substance must be handled in accordance with good industrial hygiene and safety procedures.

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### SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
Colour	: Brown-black
Appearance	: Opaque
Odour	: Marine-like
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: < 0 °C.
Boiling point	: > 100 °C.
Flammability	: Non flammable
Explosive properties	: Not explosive
Oxidising properties	: Not oxidising
Lower explosion limit	: Not applicable
Upper explosion limit	: Not applicable
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: Not available
pH	: 9 – 10
Viscosity, kinematic	: < 50 cPs
Solubility	: Soluble in water
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50 °C	: Not available
Density	: >1.04 g/cm <sup>3</sup>
Relative density	: Not available
Relative vapour density at 20 °C	: Not available
Particle size	: Not applicable

#### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

#### 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified (Based on available data, the classification criteria are not met).
Acute toxicity (dermal)	: Not classified (Based on available data, the classification criteria are not met).
Acute toxicity (inhalation)	: Not classified (Based on available data, the classification criteria are not met).
Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met). pH: 9 – 10
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met). pH: 9 – 10
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met).
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met).
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met).
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met).
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met).
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met).
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met).

#### 11.2. Information on other hazards

No additional information available

### 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, (acute)	: Not classified
Hazardous to the aquatic environment, (chronic)	: Not classified

#### 12.2. Persistence and degradability

The substance is not rapidly biodegradable

#### 12.3. Bioaccumulative potential

The substance has low potential for bioaccumulation

#### 12.4. Mobility in soil

No data on mobility of the substance is available.

#### 12.5. Other adverse effects

No additional information available

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment 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.

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### SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

DOT	TDG	IMDG	IATA	Other
<b>14.1. UN number or ID number</b>				
Not regulated for transport				
<b>14.2. UN proper shipping name</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.3. Transport hazard class(es)</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.4. Packing group</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.5. Environmental hazards</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available				

### 14.6. Special precautions for user

#### Overland transport

Not regulated

#### Transport by sea

Not regulated

#### Air transport

Not regulated

#### Inland waterway transport

Not regulated

#### Rail transport

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. US Federal Regulations

No additional information is available.

#### 15.2. State regulations

No additional information is available.

#### 15.. International regulations

No additional information is available.

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### SECTION 16: Other information

Abbreviations and acronyms:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect Level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

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Not classified

Safety Data Sheet (SDS), USA

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.