



SAFETY DATA SHEET

1-IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY/UNDERTAKING

1 OCEANFERT

COMPANY IDENTIFICATION

1.1.1 Details of the manufacturer of the substance and the safety data sheet:

Company name: Grosafe Ltd

Address: 20 Jean Batten Drive, Mt maunganui

Tel/Fax: ++645722662

E-mail: info@grosafe.co.nz

1.1.2 Emergency telephone No.:

0800 220 002

1.1.3 Product identification:

Chemical name: Ascophyllum nodosum extract organic fertilizer

Trade name: Ocean Fert (seaweed organic fertilizer)

Synonyms:N/A

CAS Registry number:84775-78-0

EC No.:283-907-6

Index No.:N/A

Registration No.:01-2119575389-21-0013

Molecular weight:N/A

Formula:Not applicable;a generic molecular formula cannot be provided for this UVCB substance.

1.1.4 Relevant identified uses:

Relevant use of the product is as a raw material in the manufacture of products intended for plant nutrition and/or defence. No discouraged use of the product is identified.

2-COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name: Ascophyllum nodosum extract organic fertilizer

CAS No. :9005-32-7

EC No.:283-907-6

Degree of purity:100%



Non-toxic

Solubility in water: 100%

PH: 6-10

Appearance: Black(deep brown)pellet/granule

Odor: seaweed taste

3-PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance:Brown Granule (At 20°C and 1013hPa)

Odour:seaweed taste

Odour threshold:N/A

PH: 5.5-8.5(1:250 at 20°C)

Melting point/freezing point:>300°C(No decomposition)

Initial boiling point and boiling range:N/A

Flash point:N/A

Evaporation rate:N/A

Flammability(Solid,gas):Not flammable

Upper/lower flammability or explosive limits:N/A

Vapour pressure:N/A

Vapour density:N/A

Solubility in Water:N/A

Auto-ignition temperature:N/A

Decomposition temperature:N/A

Viscosity:N/A

Explosive properties:N/A

4-STABILITY AND REACTIVITY

4.1 Reactivity:

The product is stable and does not decompose under normal use and storage conditions.

4.2 Chemical stability:

Stable at the usual work condition.

4.3 Possibility of hazardous reactions:



In case of fire and high temperature the products can release fumes containing oxides of carbon oxides(COx)and Nitrogen Oxides(NOx).

4.4 Conditions to avoid:

Strong oxidizing;Heating of the product at high temperature.

4.5 Incompatible materials:

Strong oxidizing.

4.6 Hazardous decomposition products:

In case of fire may release toxic fumes containing oxides of carbon oxides(COx)and Nitrogen Oxides(NOx).

5-HAZARDS IDENTIFICATIONS

5.1 Classification of the substance:

-Classification according to Regulation(EC)No. 1272/2008:

Not classification as dangerous

-Classification according to Directive 67/548/EEC:

Not classification as dangerous

5.2 Label Elements:

Hazard pictograms:None

Signal word:None

Hazard statements:None

Precautionary statements:None

5.3 Other hazards:

None

6-TOXICOLOGICAL INFORMATION

6.1 Information on toxicological effects

6.1.1 Acute toxicity:No acute toxicity study is provided due to the nature of the substance.It is not deemed to pose any toxicological hazard.

Oral:N/A

Skin:N/A

Inhalation:N/A

Skin corrosion/irritation:not irritant

Serious eye damage/irritation:mild irritant



Respiratory or skin sensitisation:N/A

Aspiration hazard:N/A

Reproductive/developmental toxicity:N/A

Germ cell mutagenicity:N/A

Carcinogenicity:N/A

Repeated dose toxicity:N/A

STOT-single exposure:N/A

STOT-repeated exposure:N/A

6.1.2 Information on likely routes of exposure:

Inhalation:can be irritant for nose and respiratory system.

Skin:can be irritant for skin.

Eye:can be irritant for eyes.

Ingestion:can be irritant for mouth and digestive tract.

6.1.3 Others:None

7-ECOLOGICAL INFORMATION

Use according to good working rules,avoid to dispose of the product in the environment.The substance is very soluble in water,therefore a low potential for adsorption is expected.

Persistence and degradability:N/A

Bio accumulative potential:N/A

Mobility in soil:not expected to adsorb to the sediment.

Result of PBT and vPvB assessment:neither a PBT nor a vPvB substance.

Other adverse effects:None

8-FIRST AID MEASURES

8.1 Description of the first aid measures

Routes of exposure:

Inhalation:Well ventilate the area and go to the open space.

Skin:Take off all contaminated clothing.Rinse abundantly with water and soap.Seek medical advice in case of irritation.Wash clothes before reuse.

Eye:Rinse immediately and abundantly with water for at least 10 minutes.Eyelids should be held away from the eyeball to ensure thorough rinsing.Seek medical advice



if the irritation spreads out.

Ingestion: Rinse mouth, give water to drink. If the subject is unconscious, do not induce vomiting. Seek medical advice.

Advice: Who provides the first medical aid must use the individual protection equipment (latex gloves).

8.2 Most important symptoms and effects, both acute and delayed

Inhalation: Possible irritation of 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.

8.3 Indication of any immediate medical attention and special treatment needed

In case of accident, seek immediately medical advice showing the safety data sheet.

9-FIREFIGHTING MEASURES

9.1 Fire and explosion data

Flash point: N/A

Auto-ignition temperature: N/A

Special firefighting procedures: N/A

9.2 Extinguishing media

-Suitable extinguishing media: Water spray, foam, carbon dioxide (CO₂)

.Information on the appropriate extinguishing media: Not relevant

-Unsuitable extinguishing media: None

-Indications if extinguishing media are inappropriate for a particular situation involving the substance or mixture: None

9.3 Special hazards arising from the substance

In case of fire avoid to breath fumes, it may release toxic fumes containing oxides of carbon oxides (COx) and Nitrogen Oxides (NOx).

9.4 Advice for firefighters

In case of fire and in close proximity wear the protective clothes heat resistant and air respiratory equipment.

10-ACCIDENTAL RELEASE MEASURES



10.1 Personal precautions, protective equipment and emergency procedures

-For non-emergency personal:

Keep away from the affected area. People not involved in the emergency intervention alert the responsible of the internal emergency.

-For emergency responders:

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

10.2 Environmental precautions:

If possible store into a clean container either to reuse or disposal. Avoid waterway and discharging contamination, competent authority must be informed in case of waterway accidental contamination.

10.3 Methods and material for containment and cleaning up:

Any release should be immediately cleaned up wearing protective clothes (suit, latex gloves and safety glasses).

If possible, store into a clean container either to reuse or disposal. If possible, absorb with the inert material. After store, wash the area with water and suitable materials.

11-HANDLING AND STORAGE

11.1 Precautions for safe handling

Avoid powder inhalation.

Avoid direct contact with skin and eyes.

Remove all protective clothing before access to the areas where you eat.

Always respect hygienic rules, do not drink neither eat in the working areas.

11.2 Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a well-ventilated place far from humidity and heat source.

11.3 Specific end use(s)

Fertilizer

Bacterial growth promoter in biotech products

Plant nutrition

12-EXPOSURE CONTROL/PERSONAL PROTECTION

12.1 Control parameters

Occupational exposure limit values:



ACGIH(2003):Recommended limit-powder to be inhaled:TLV/TWA:10mg/m³

ACGIH(2003):Recommended limit-breathable powder:TLV/TWA:3mg/m³

PNEC Water: Fresh water:65.3µg/L

Marine water:6.53µg/L

Intermittent release:653µg/L

PNEC Soil:4.7µg/kg soil dw

PNEC STP Sewage treatment plant:1mg/L

Recommended monitoring procedures:None

12.2 Exposure control

12.2.1 Appropriate engineering controls:

Operate in well-ventilated areas.

12.2.2 Individual protection measures,such as personal protective equipment:

The personal protective equipment must be compliant to the regulation UNI-EN in force.

-Eye/face protection:

Wear safety glasses according to the standard EN 166.

-Skin protection:

Hand protection:Water latex gloves according to the standard EN 374.

Other:Wear total skin protection clothes.

-Respiratory protection:Use anti-powder mask with P2 filters in case of dust making.The powder exposition limit must be respected.

12.2.3 Environmental exposure controls:

Keep the product concentration under the exposure limits established by the law.

13-DISPOSAL CONSIDERATIONS

Waste treatment methods

Recover the product,if possible,or send to the incineration and disposal system.

Avoid waterway and discharging contamination.

Follow the local and national disposition in force.

14-TRANSPORT INFORMATION

Not dangerous product within the meaning of transport regulations.

15-REGULATORY INFORMATION



15.1 Safety, health and environmental regulations/legislation specific for the substance

Council Directive 67/548/EEC(Classification,packaging and labeling of dangerous substances) and subsequent amendments.

Council Directive 1999/45/EC(Classification,packaging and labeling of dangerous preparations) and subsequent amendments.

Regulation(EC) nr 1272/2008(CLP).

Commission Directive 98/24/EC (Protection of the health and safety of workers from the risk related to chemical agent.)

Commission Directive 2000/39/EC occupational exposure limit values.

Regulation(EC)No.1907/2006(REACH)

15.2 Chemical safety assessment:N/A

16-OTHER INFORMATION

NONE