SAFETY DATA SHEET

SEAMAC 45

This safety data sheet complies with the requirements of: Regulation (EC) No. 453/2010 and Regulation (EC) No. 1272/2008



SDS #: NP-0193-A

Revision date: 2021-03-09

Format: EU Version 1.03

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Code(s) NP-0193-A

Product Name SEAMAC 45

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use: Fertilizer product to help improve plant nutrition and vigor

Restrictions on useUse as recommended by the label.

1.3. Details of the supplier of the safety data sheet

<u>Supplier</u> FMC Agro Limited

Rectors Lane Pentre Flintshire CH5 2DH United Kingdom Tel: + 44 1244 537370

E-mail: fmc.agro.uk@fmc.com

For further information, please contact:

Contact point Tel: +44(0) 1244 537370

Email: fmc.agro.uk@fmc.com

1.4. Emergency telephone number

Emergency telephone For leak, fire, spill or accidents in South Korea,

please call: 1 703 741-5970 (CHEMTREC – International)

For medical emergencies in South Korea, please call: 1 651 632 6793 (Collect)

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture Regulation (EC) No 1272/2008

This product has no classification under CLP This product has no label elements.

2.2. Label elements

Hazard pictograms

This product has no classification under CLP

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This product has no label elements.

2.3. Other hazards

This product is not identified as a PBT/vPvB substance.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

The product is a mixture, not a substance.

Chemical name	EC-No	CAS-No	Weight percent	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH registration number	
Ascophyllum nodosum extract	Present	84775-78-0	30-50	Not classified	01-2120070500-70- XXXX	

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

Eye Contact Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact

lenses, if present, after the first 5 minutes, then continue rinsing. If eye irritation persists,

consult a specialist.

Skin Contact Immediately remove all stained or splashed clothing that is not adhering to the skin. Wash

off immediately with soap and plenty of water. Consult a doctor if necessary.

Inhalation Remove person from exposure ensuring one's own safety while doing so. Get medical

attention immediately if symptoms occur.

Ingestion Rinse mouth. Get medical attention immediately if symptoms occur.

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

Most important symptoms and effects, both acute and delayed

Skin contact: May see mild irritation at the site of contact.

Eye contact: Possible irritation and redness.

Ingestion: Possible irritation of the throat.

Inhalation: May experience irritation of the throat with a feeling of tightness in the chest.

Delayed/Immediate effects: Immediate effects can be expected after short-term exposure.

4.3. Indication of any immediate medical attention and special treatment needed

Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically.

Section 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media

Dry chemical, CO2, water spray or regular foam. Using spraywater to cool the containers.

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Unsuitable extinguishing media

No information available

5.2. Special hazards arising from the substance or mixture

Toxic fumes may be released in fire situations.

Hazardous Combustion

Carbon oxides, Nitrogen oxides (NOx).

Products

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal Precautions

For personal protection see section 8. In case of spill, avoid contact. Isolate area and keep out animals and unprotected persons. Stop leak if you can do it without risk. Keep people away from and upwind of spill/leak.

Wear personal protective equipment.

For emergency responders

Use personal protection recommended in Section 8.

6.2. Environmental precautions

Do not discharge into drains or rivers. Contain the spillage using bunding. Accidental release into water courses must be alerted to the appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Small spills can be washed to drain with copious amounts of water. For large spills(>10 L),

absorb spill onto sand, sawdust or absorbent clay. Sweep up and transfer to closable, labelled containers for disposal. Wash the spillage site with water once the spillage is removed. Product will stain concrete. Refer to section 13 of SDS for suitable method of

disposal.

6.4. Reference to other sections

See section 8 for more information. See section 13 for more information.

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Handling

Ensure adequate ventilation. Do not eat, drink or smoke when using this product. Avoid contact by using personal protective equipment. Do not breathe vapours or spray mist. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use.

Hygiene measures

Clean water should be available for washing in case of eye or skin contamination. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash skin prior to eating, drinking, chewing gum or using tobacco. Shower or bathe at the end of working. Launder work clothing separately from regular household laundry.

7.2. Conditions for safe storage, including any incompatibilities

Storage

Protect from freezing. Store above 5°C. Store in a well-ventilated place. Keep cool. To maintain product quality, do not store in heat or direct sunlight. Keep out of reach of children and animals. Keep away from food, drink and animal feedingstuffs.

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7.3. Specific end use(s)

Risk Management Methods (RMM)

The information required is contained in this Safety Data Sheet.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Derived No Effect Level (DNEL) No information available.

Predicted No Effect Concentration

(PNEC)

PNEC: Fresh water - 65.3 μg/L PNEC: Marine water - 6.53 μg/L

PNEC: Water - intermittent releases - 653 µg/L

PNEC: Soil 4.7 µg/kg.soil

PNEC: Sewage treatment plant - 1 mg/L (STP).

8.2. Exposure controls

Engineering measures Ensure adequate ventilation.

Personal protective equipment

Eye/Face Protection Safety glasses with side-shields. Provide emergency on-site eyewash.

Hand Protection Rubber gloves, Nitrile rubber, PVC gloves.

Skin and Body Protection Impervious clothing.

Respiratory Protection No special protective equipment required.

Environmental exposure controls Refer to specific Member State legislation for requirements under Community

environmental legislation.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical State Liquid

Appearance Brown liquid extract of plants

Odour Marine Colour Black, Brown

Odour threshold No information available

pH 8.5 - 10.0

Melting point/freezing point > 300 °C / 572 °F
Boiling point/boiling range
Flash point No information available
Evaporation Rate No information available

Flammability (solid, gas)

Flammability Limit in Air

Upper flammability limit:
Lower flammability limit
Vapour pressure
Vapour density
Specific gravity

No information available
No information available
No information available
1.19 - 1.22

Water solubility Soluble in water

Decomposition temperatureNo information availableViscosity, kinematicNo information available

Viscosity, dynamic <300 cP

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Explosive propertiesNo information available

Oxidising properties Non-oxidizing

9.2. Other information

Softening point
Molecular weight
VOC content (%)
Density
Bulk density
No information available

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

Stable under recommended storage conditions

10.2. Chemical stability

Stable under recommended storage conditions.

Explosion data

Sensitivity to Mechanical Impact No information available. **Sensitivity to Static Discharge** No information available.

10.3. Possibility of hazardous reactions

Hazardous polymerisation

Hazardous polymerization does not occur.

Hazardous reactions

None under normal processing. Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

Heat. Keep away from open flames, hot surfaces and sources of ignition, Extremes of temperature and direct sunlight, Moisture.

10.5. Incompatible materials

Strong oxidising agents, Strong reducing agents, Strong acids.

10.6. Hazardous decomposition products

See Section 5 for more information.

Section 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity

Product Information

No acute toxicity information is available for this product.

Skin corrosion/irritation
Serious eye damage/eye irritation
Sensitisation
Mutagenicity

No information available. No information available. No information available No information available.

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Carcinogenicity No information available.

Reproductive toxicity STOT - single exposure STOT - repeated exposure No information available. No information available. No information available.

Symptoms

Skin contact: May see mild irritation at the site of contact.

Eye contact: Possible irritation and redness.

Ingestion: Possible irritation of the throat.

Inhalation: May experience irritation of the throat with a feeling of tightness in the chest.

Delayed/Immediate effects: Immediate effects can be expected after short-term exposure.

Aspiration hazard No information available.

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity ALGAE (Selenastrum capricornutum) - 72H EbC50 = 60.35 mg/L

ALGAE (Selenastrum capricornutum) - 72H ErC50 = >100 mg/L

DAPHNID (Daphnia magna) - 48H IC50 = >100 mg/L ZEBRAFISH (Danio rerio) - 96H LC50 = >100 mg/L

12.2. Persistence and degradability

Readily biodegradable (60 % after 17 days).

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

No information available

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from residues / unused

products

Transfer to a suitable container and arrange for collection by specialised disposal company. Do not contaminate ponds, waterways or ditches with chemical or used containers. Do not discharge to sewer systems.

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Contaminated Packaging Dispose of in accordance with local regulations.

EWC Waste Disposal No 02 01 09

OTHER INFORMATION NOTE: The user's attention is drawn to the possible existence of specific European,

national or local regulations regarding disposal.

Section 14: TRANSPORT INFORMATION

NOTE NOT CLASSIFIED AS DANGEROUS IN THE MEANING OF TRANSPORT

REGULATIONS.

None

IMDG/IMO

14.1 UN/ID noNot regulated14.2 Proper Shipping NameNot regulated14.3 Hazard classNot regulated14.4 Packing GroupNot regulated14.5 Environmental HazardsNot applicable

14.6 Special Provisions None

14.7 Transport in bulk according to No information available

Annex II of MARPOL and the IBC

Code

RID

14.1 UN/ID noNot regulated14.2 Proper Shipping NameNot regulated14.3 Hazard classNot regulated14.4 Packing GroupNot regulated14.5 Environmental HazardNot applicable

14.6 Special Provisions

ADR/RID

14.1 UN/ID noNot regulated14.2 Proper Shipping NameNot regulated14.3 Hazard classNot regulated14.4 Packing GroupNot regulated14.5 Environmental HazardNot applicable

14.6 Special Provisions None

ICAO/IATA

14.1 UN/ID noNot regulated14.2 Proper Shipping NameNot regulated14.3 Hazard classNot regulated14.4 Packing GroupNot regulated14.5 Environmental HazardNot applicable

14.6 Special Provisions None

Section 15: REGULATORY INFORMATION

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

European Union

Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Persistent Organic Pollutants

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Not Applicable

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not Applicable

International Inventories

Chemical name	TSCA (United States)	DSL (Canada)	EINECS/ELINC S (Europe)	ENCS (Japan)	China (IECSC)	KECL (Korea)	PICCS (Philippines)	AICS (Australia)
Ascophyllum nodosum extract 84775-78-0		Х	Х					Х

15.2. Chemical safety assessment

No information available

Section 16: OTHER INFORMATION

Key or legend to abbreviations and acronyms used in the safety data sheet

<u>Legend</u>

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

CAS: CAS (Chemical Abstracts Service)

Ceiling: Maximum limit value:

DNEL: Derived No Effect Level (DNEL)

EINECS: EINECS (European Inventory of Existing Chemical Substances)

Globally Harmonised System (GHS)

IATA: International Air Transport Association (IATA)
ICAO: International Civil Aviation Organization
International Maritima Department Condo (IMD)

IMDG: International Maritime Dangerous Goods (IMDG)

LC50 (lethal concentration)

LD50 (lethal dose)

PBT: Persistent, Bioaccumulative, and Toxic (PBT) Chemicals

RID: Regulations Concerning the International Transport of Dangerous Goods by Rail

STEL: Short term exposure limit

SVHC: Substances of Very High Concern for Authorisation:

TWA: time weighted average

vPvB: very Persistent and very Bioaccumulative

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Reason for revision: SDS sections updated.

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End of Safety Data Sheet