# **SAFETY DATA SHEET**

# **SEAMAC PROTURF FE**

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



SDS #: NP-0059-A

Revision date: 2018-07-23

Format: EU Version 1.02

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

Product Code(s) NP-0059-A

Product Name SEAMAC PROTURF FE

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

Recommended Use: A fertilizer with micronutrients for use in agriculture and horticulture

**Restrictions on use**Use as recommended by the label.

1.3. Details of the supplier of the safety data sheet

Manufacturer FMC Agro Limited

Rectors Lane Pentre Flintshire CH5 2DH United Kingdom

Tel: + 44 (0) 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 Tel: +44(0)1244 537370 (Office hours only)

# Section 2: HAZARDS IDENTIFICATION

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

| Skin corrosion/irritation         | Category 2 (H315) |
|-----------------------------------|-------------------|
| Serious eye damage/eye irritation | Category 2 (H319) |

#### 2.2. Label elements

# Hazard pictograms



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Signal Word WARNING

#### **Hazard Statements**

H315 - Causes skin irritation

H319 - Causes serious eve irritation

# **Precautionary Statements**

P264 - Wash hands thoroughly after handling

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P332 + P313 - If skin irritation occurs: Get medical advice/attention P337 + P313 - If eye irritation persists: Get medical advice/attention

# 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.

# 3.2 Mixture containing the following hazardous ingredients:

| Chemical name                 | EC-No     | CAS-No    | Weight percent | Classification according to Regulation (EC) No. 1272/2008 [CLP]    | REACH<br>registration<br>number |  |
|-------------------------------|-----------|-----------|----------------|--|---------------------------------|--|
| Iron sulfate                  | 231-753-5 | 7720-78-7 | 10-30          | Acute Tox. 4 (H302)<br>Skin Irrit. 2 (H315)<br>Eye Irrit. 2 (H319) | 01-2119513203-57-<br>XXXX       |  |
| AMMONIUM IRON(III)<br>CITRATE | 214-686-6 | 1185-57-5 | 10-30          | Skin Irrit. 2 (H315)<br>Eye Irrit. 2 (H319)                        | No data available               |  |
| AMMONIUM NITRATE              | 299-347-8 | 6484-52-2 | 1-10           | Ox. Sol. 3 (H272)<br>Eye Irrit. 2 (H319)                           | 01-2119490981-27-<br>XXXX       |  |

#### **Additional Information**

For the full text of the H-, R- and EUH- phrases mentioned in this Section, see Section 16.

# 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. Call a doctor if

irritation persists.

**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. If symptoms persist, call a doctor.

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

attention immediately if symptoms occur.

Ingestion Rinse mouth. Do NOT induce vomiting. Rinse mouth with water and afterwards drink plenty

of water or milk. If vomiting does occur, rinse mouth and drink fluids again. Get medical

attention 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: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely.

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Ingestion: There may be soreness and redness of the mouth and throat. Nausea and

stomach pain may occur. There may be vomiting.

Inhalation: There may be 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

Eye bathing equipment should be available on the premises.

# **Section 5: FIREFIGHTING MEASURES**

# 5.1. Extinguishing media

# **Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Cool containers / tanks with water spray.

#### 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 Products

Nitrogen oxides (NOx), Sulphur oxides.

# 5.3. Advice for firefighters

As in any fire, wear self-contained breathing apparatus and full protective gear. Wear protective clothing to prevent contact with skin and eyes.

# Section 6: ACCIDENTAL RELEASE MEASURES

# 6.1. Personal precautions, protective equipment and emergency procedures

#### **Personal Precautions**

For personal protection see section 8. Stop leak if you can do it without risk. In case of spill, avoid contact. Isolate area and keep out animals and unprotected persons. Keep people away from and upwind of spill/leak. In the case of large spills (1 ton or more), alert the appropriate authorities.

For further clean-up instructions, call Emergency Hotline number listed in Section 1 "Product and Company Identification" above.

## 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 Surface drains within close vicinity of the spill should be covered. Dike to confine spill and

absorb with non-combustible absorbent such as clay, sand or soil.

Methods for cleaning up Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth,

diatomaceous earth, vermiculite) and place in container for disposal according to

local/national regulations (see Section 13).

# 6.4. Reference to other sections

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

# **Section 7: HANDLING AND STORAGE**

#### 7.1. Precautions for safe handling

#### Handling

Use only in area provided with appropriate exhaust ventilation. Avoid contact with skin, eyes and clothing.

# Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

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

#### Storage

Protect from freezing. Store above 5°C. Keep in a dry, cool and well-ventilated place. Keep away from direct sunlight. Keep away from heat. Keep out of reach of children and animals. Keep away from food, drink and animal feedingstuffs.

Packageing material Must only be kept in original packaging.

## 7.3. Specific end use(s)

# Specific Use(s)

No data available.

## **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 No information available.

(PNEC)

8.2. Exposure controls

**Engineering measures** Ensure adequate ventilation, especially in confined areas.

# Personal protective equipment

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

**Hand Protection** Protective gloves. Impervious butyl rubber gloves. Wear chemical protective gloves made of

materials such as nitrile or neoprene.

**Skin and Body Protection**Wear impervious gloves and/or clothing if needed to prevent contact with the material.

**Respiratory Protection** Not required under normal use.

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 Liquid suspension Odour Characteristic

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Colour Brown

Odour threshold No information available

**pH** 2.1 - 2.4

Melting point/freezing pointNo information availableBoiling point/boiling rangeNo information availableFlash pointNo information availableEvaporation RateNo information availableFlammability (solid, gas)No information available

Flammability Limit in Air

Upper flammability limit:
Lower flammability limit
Vapour pressure
Vapour density

No information available
No information available
No information available
No information available

Specific gravity 1.20 - 1.22
Water solubility Soluble in water

Solubility in other solvents No information available Partition coefficient No information available **Autoignition temperature** No information available **Decomposition temperature** No information available Viscosity, kinematic No information available Viscosity, dynamic No information available **Explosive properties** No information available **Oxidising properties** Non-oxidizing (by EC criteria)

9.2. Other information

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

# **Section 10: STABILITY AND REACTIVITY**

# 10.1. Reactivity

None under normal use 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.

#### 10.5. Incompatible materials

Strong oxidising agents, Strong reducing agents, Bases.

#### 10.6. Hazardous decomposition products

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May emit toxic fumes under fire conditions. See Section 5.2 for more information.

# Section 11: TOXICOLOGICAL INFORMATION

## 11.1. Information on toxicological effects

# **Acute toxicity**

#### **Product Information**

Product does not present an acute toxicity hazard based on known or supplied information.

LD50 Oral

> 3000 mg/kg (rat) (Calculated Estimated Acute Toxicity - EAT)

| Chemical name    | LD50 Oral          | LD50 Dermal | Inhalation LC50       |
|------------------|--------------------|-------------|-----------------------|
| Iron sulfate     | = 1000 mg/kg (Rat) |             |                       |
| AMMONIUM NITRATE | >5000 mg/kg (Rat)  |             | > 88.8 mg/L (Rat) 4 h |

Skin corrosion/irritation
Serious eye damage/eye irritation
Sensitisation
Mutagenicity
Carcinogenicity
No information available.

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

**Symptoms** Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat. Nausea and

stomach pain may occur. There may be vomiting.

Inhalation: There may be 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

There is no data available for this product.

| Chemical name    | Toxicity to algae | Toxicity to fish                     | Toxicity to daphnia and other     |  |
|------------------|-------------------|--------------------------------------|-----------------------------------|--|
|                  |                   |                                      | aquatic invertebrates             |  |
| Iron sulfate     | -                 | 96 h LC50: = 925 mg/L (Poecilia      | 48 h EC50: 6.15 - 9.26 mg/L       |  |
|                  |                   | reticulata) static 96 h LC50: = 0.56 | (Daphnia magna) Static 48 h EC50: |  |
|                  |                   | mg/L (Cyprinus carpio) semi-static   | = 152 mg/L (Daphnia magna)        |  |
| AMMONIUM NITRATE | -                 | 48 h LC50: 65 - 85 mg/L (Cyprinus    | -                                 |  |
|                  |                   | carpio) semi-static                  |                                   |  |

#### 12.2. Persistence and degradability

No information available.

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# 12.3. Bioaccumulative potential

No information available.

#### 12.4. Mobility in soil

# Mobility in soil

No information available.

## **Mobility**

Soluble in water.

# 12.5. Results of PBT and vPvB assessment

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

#### 12.6. Other adverse effects

Negligible

# **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.

Contaminated Packaging Clean container with water. Dispose of rinse water in accordance with local and national

guidelines. Empty containers should be taken to an approved waste handling site for

recycling or disposal.

EWC Waste Disposal No 02 01 08

**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.

IMDG/IMO

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

14.6 Special Provisions None

14.7 Transport in bulk according to The product is not transported in bulk tankers.

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 regulated

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14.5 Environmental Hazard Not applicable

14.6 Special Provisions None

## 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

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

Not Applicable

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

Not Applicable

#### **International Inventories**

| Chemical name                              | TSCA<br>(United<br>States) | DSL<br>(Canada) | EINECS/ELINC<br>S (Europe) | ENCS<br>(Japan) | China<br>(IECSC) | KECL (Korea) | PICCS<br>(Philippines) | AICS<br>(Australia) |
|--|----------------------------|-----------------|----------------------------|-----------------|------------------|--------------|------------------------|---------------------|
| Iron sulfate<br>7720-78-7                  | Х                          | Х               | Х                          | Х               | Х                | Х            | Х                      | Х                   |
| AMMONIUM IRON(III)<br>CITRATE<br>1185-57-5 | Х                          | Х               | Х                          |                 | Х                | Х            | Х                      | Х                   |
| AMMONIUM NITRATE<br>6484-52-2              | Х                          | Х               | Х                          | Х               | Х                | Х            | Х                      | X                   |

# 15.2. Chemical safety assessment

A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

# **Section 16: OTHER INFORMATION**

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

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# Full text of R-phrases referred to under sections 2 and 3

Not applicable

#### Full text of H-Statements referred to under sections 2 and 3

H272 - May intensify fire; oxidiser H302 - Harmful if swallowed H315 - Causes skin irritation

H319 - Causes serious eye irritation

<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)

GHS: Globally Harmonised System (GHS)

IATA: International Air Transport Association (IATA)
ICAO: International Civil Aviation Organization

IMDG: International Maritime Dangerous Goods (IMDG)

LC50: LC50 (lethal concentration)

LD50: 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

**Revision date:** 2018-07-23

Reason for revision: Format Change.

# **Disclaimer**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

## **Prepared By**

**FMC Corporation** 

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**End of Safety Data Sheet**