

**SAFETY DATA SHEET**

Product Name: Enhance 5-0-0 5Fe liquid fertiliser

Revision number: 001 (First version) Dated: 05/12/17

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**1.1 Product Identifier:**

Product Name: Enhance 5-0-0 5Fe liquid fertiliser

1.2 Relevant Identified Uses: Horticultural fertiliser**1.3 Details of the Supplier of SDS:** Advance Grass Solutions Ltd
Unit 5 Hogwood Farm Ind. Estate
Sheerlands Road
Finchampstead
RG40 4QY
Tel: 01183 914540
Email: info@advancegrass.com**1.4 Emergency Telephone Number:**

+44 (0) 1963 634788 – Normal hours are 07:30-16:30 Mon-Fri.

+44 (0) 7801 644405 – Out of normal hours only.

SECTION 2. HAZARDS IDENTIFICATION**2.1 Classification of the substance of mixture according to Regulation (EC) No.1272/2008:****Physical hazards:** None**Health hazards:** Eye irritation (Section 3.3, category 2).
Causes skin irritation (3.3, cat. 2)**Environmental hazards:****2.2 Label elements:**

Pictogram:

Signal word: Warning

Hazard statements:

H code	Statement
H319	Causes eye irritation
H315	Causes skin irritation

(Continued on next page)

**SAFETY DATA SHEET**

Product Name: Enhance 5-0-0 5Fe liquid fertiliser

Revision number: 001 (First version) Dated: 05/12/17

Precautionary statements:

P code	Statement
P280	Wear protective gloves/clothing/eye protection/face protection
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so
P501	Dispose of contents/container according to local and national provisions for hazardous waste.

Supplementary precautionary statements:

Code	Statement
P261	Do not breathe spray/vapour
P262	Do not get in eyes, on skin or on clothing
P271	Use only outdoors or in a well ventilated area

2.3 Other hazards:

This product is not classified as PBT or vPvB according to current EU criteria.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS.

Substance	CAS Number	EC Number	REACH Registration Number	%	Classification according to Regulation (EC) No 1278/2008 (CLP)
Ferric Ammonium Citrate	Presently no CAS number allocated	932-833-9	N/A	5	Eye irritation, Category 2; H319 Skin irritation, Category 2; H315
All other ingredients do not require classification according to Regulation (EC) No 1278/2008 (CLP)					

SECTION 4. FIRST AID MEASURES**4.1 Description of first aid measures:**

4.1.1 Inhalation: Move affected person to fresh air immediately. Keep warm and at rest in a position comfortable for breathing. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen.

(Continued on next page)

**SAFETY DATA SHEET**

Product Name: Enhance 5-0-0 5Fe liquid fertiliser

Revision number: 001 (First version) Dated: 05/12/17

4.1.2 Skin Contact: Rinse with plenty of water. Remove contaminated clothing and wash thoroughly with detergent before re-use. If irritation persists or worsens seek medical attention.

4.1.3 Eye Contact: Irrigate thoroughly with water for at least 15 minutes. Obtain medical attention.

4.1.4 Ingestion: Wash out mouth with water. Do not induce vomiting. If patient is conscious, give water to drink. Seek medical attention.

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

4.2.1 Inhalation: High inhalation exposures can exert mechanical irritations of the mucosa of the respiratory tract.

4.2.2 Skin contact: Skin irritant. Contact may cause redness, itching, burning and skin damage.

4.2.3 Eye contact: Eye irritant. Contact may cause stinging, watering, redness and swelling.

4.2.4 Ingestion: Nausea, vomiting, diarrhoea, abdominal pain, hypotension, haematemesis, fever. Lack of symptoms within the first 6 hours makes significant toxicity unlikely.

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

General information: None under normal use

SECTION 5. FIRE-FIGHTING MEASURES**5.1 Extinguishing media:**Use CO₂ or water spray. Do not smother with foam or sand.**5.2 Special hazards arising from the substance or mixture:**

May give off fumes if heated to decomposition. Do not breathe fumes.

5.3 Advice for firefighters:

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

(Continued on next page)

**SAFETY DATA SHEET**

Product Name: Enhance 5-0-0 5Fe liquid fertiliser

Revision number: 001 (First version) Dated: 05/12/17

Use water spray to cool unopened containers, Prevent run-off from fire control or dilution from entering streams, sewers or drinking water supply.

SECTION 6. ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures:**

Provide adequate ventilation. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate.

6.2 Environmental precautions:

Avoid pollution of sewers and watercourses. May release ammonium ions that are toxic to fish. Release to watercourses may cause effects downstream.

6.3 Methods and material for containment and cleaning up:

Contain and sweep up spillages. Place unusable material in clearly labelled containers or plastic bags for disposal. Wet residues are slippery, wash floors to remove all traces.

SECTION 7. HANDLING AND STORAGE**7.1 Precautions for safe handling:**

Avoid spilling. Avoid contact with skin and eyes. Avoid inhalation of spray or vapour. Wash hands thoroughly after handling. Wear suitable protective equipment for prolonged exposure and/or high concentrations of vapours, spray or mist.

7.2 Conditions for safe storage, including any incompatibilities:

Keep dry. Packs should be stored closed to avoid moisture ingress. Avoid prolonged contact with metals. Do not use food containers for storage due to risk of mistake.

Conditions of collocated storage:

Storage class 10 - 13 (Other liquids and solids)

Only substances of the same storage class should be stored together.

Collocated storage with the following substances is prohibited:

- Pharmaceuticals, foods, and animal feeds including additives.
- Infectious, radioactive and explosive substances.
- Strongly oxidizing substances of storage class 5.1A.

(Continued on next page)



SAFETY DATA SHEET

Product Name: Enhance 5-0-0 5Fe liquid fertiliser

Revision number: 001 (First version) Dated: 05/12/17



7.3 Specific end uses: For use only as a horticultural fertiliser.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

N/A

8.2 Exposure Controls:

Protective equipment	
	Nitrile gloves may be worn for personal hygiene purposes
	Wear coverall and rubber boots when dealing with bulk spillages
	Face shield with suitable protection
Appropriate Engineering controls	Provide adequate ventilation Avoid inhalation of spray/vapour Observe any occupational exposure limits for the product Mechanical ventilation or local exhaust ventilation may be required
Eye/face protection	Wear tight-fitting chemical splash goggles or face shield Personal protective equipment for eye and face protection should comply with European Standard EN166
Hand protection	Chemical resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. To protect hands from chemicals gloves should comply with European Standard EN374. The most suitable glove should be chosen in consultation with the glove supplier/manufacture, who can provide information about the breakthrough time of the glove material.
Other skin and body protection	Provide eyewash station and safety shower. Wear appropriate clothing to prevent skin contact
Hygiene measures	Do not smoke in work area. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke

(Continued on next page)



SAFETY DATA SHEET

Product Name: Enhance 5-0-0 5Fe liquid fertiliser

Revision number: 001 (First version) Dated: 05/12/17

Respiratory protection	Respiratory protection must be used if the airborne contamination exceeds the recommended exposure limit. If ventilation is inadequate, suitable respiratory protection must be worn.
------------------------	---

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid
Colour	Brownish
Odour	Possible slight ammonia
Odour threshold	Not determined
pH value	N/A
Initial melting point (°C)	N/A
Initial boiling point and boiling range(°C)	N/A
Flash point	N/A
Flammability(solid)	Product is non-flammable
Ignition temperature(°C)	N/A
Decomposition temperature(°C)	N/A
Self-flammability(°C)	Product is not self-igniting
Danger of explosion(°C)	N/A
Vapour pressure	N/A
Bulk density	N/A
Vapour density	N/A
Evaporation rate	N/A
Solubility in/miscibility with water at 20 °C	N/A
Partition coefficient(n-octanol/water)	N/A
Viscosity dynamic at 20 °C	N/A

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity:

Stable product under recommended storage and handling conditions.

10.2 Chemical stability:

Stable product under recommended storage and handling conditions.

10.3 Possible hazardous reactions:

Stable under recommended storage and handling conditions.

(Continued on next page)

**SAFETY DATA SHEET**

Product Name: Enhance 5-0-0 5Fe liquid fertiliser

Revision number: 001 (First version) Dated: 05/12/17

10.4 Conditions to avoid:

Heating may generate the following products: Toxic gases or vapours.

10.5 Incompatible materials:

Strong acids.
Strong oxidising agents.
Powdered metal.
Inorganic peroxides.

10.6 Hazardous decomposition products:

Nitrous gases	Sulphur dioxide
Ammonia	Sulphur trioxide
Isocyanic acid	Basic iron sulphate
Phosphorous oxides	Iron oxides

SECTION 11. TOXICOLOGICAL INFORMATION**11.1 Information on toxicological effects:**

Acute toxicity	Based on available data the classification criteria are not met
Skin corrosion/irritation	Skin irritation, Category 2; H315
Serious eye damage/irritation	Eye irritation, Category 2; H319
Respiratory or skin sensitisation	Based on available data the classification criteria are not met
Germ cell mutagenicity	Based on available data the classification criteria are not met
Carcinogenicity	Based on available data the classification criteria are not met
Reproductive toxicity	Based on available data the classification criteria are not met
STOT-single exposure	Based on available data the classification criteria are not met
STOT-repeated exposure	Based on available data the classification criteria are not met
Aspiration hazard	Not applicable
Inhalation	Prolonged inhalation of high concentrations may damage respiratory system
Ingestion	May cause discomfort if swallowed
Likely routes of exposure	Contact with skin and eyes. Inhalation of dust

SECTION 12. ECOLOGICAL INFORMATION

(Continued on next page)

**SAFETY DATA SHEET**

Product Name: Enhance 5-0-0 5Fe liquid fertiliser

Revision number: 001 (First version) Dated: 05/12/17

12.1 Toxicity:

Low hazard to waters. Inform the responsible authorities when very large quantities get into water, drainage, sewer, or the ground.

12.2 Persistence and degradability:

Product is biodegradable.

12.3 Bioaccumulative potential:

Product does not bioaccumulate.

12.4 Mobility in soil:

Not determined

12.5 Results of PBT and vPvB assessment:

Does not fulfil the criteria for classification as PBT or vPvB.

12.6 Other adverse effects:

None known.

SECTION 13. DISPOSAL CONSIDERATION

Product: Dispose of waste to licensed waste disposal site in accordance with the requirements of the local waste disposal authority. Residues should be taken care of as hazardous waste according to local and national provisions.

Packaging: Treat as industrial waste. Empty containers should be taken care of as hazardous waste according to local and national provisions.

SECTION 14. TRANSPORT INFORMATION**General information:**

This product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID)

14.1 UN Number:

N/A

14.2 UN proper shipping name:

(Continued on next page)

**SAFETY DATA SHEET**

Product Name: Enhance 5-0-0 5Fe liquid fertiliser

Revision number: 001 (First version) Dated: 05/12/17

N/A

14.3 Transport hazard class(es):

No transport warning sign required.

14.4 Packing group:

N/A

14.5 Environmental hazards:

None

14.6 Special precaution for user:

N/A

14.7 Transport in bulk according to Annex II MARPOL 73/78 and the IBC code:

N/A

SECTION 15. REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:**

EU legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

Guidance: Workplace Exposure Limits EH40.

15.2 Chemical Safety Assessment:

No Chemical Safety Assessment has been carried out for this substance by the supplier.

SECTION 16. OTHER INFORMATION**Key literature references and sources for data:**

(Continued on next page)

SAFETY DATA SHEET

Product Name: Enhance 5-0-0 5Fe liquid fertiliser

Revision number: 001 (First version) Dated: 05/12/17

http://gestis.itrust.de/nxt/gateway.dll/gestis_en/000000.xml?f=templates&fn=default.htm&vid=gestiseng:sdbeng

<https://echa.europa.eu/>

<http://www.chcs.org.uk/>

Further information: The information contained in this leaflet is given in good faith. It is accurate to the best of our knowledge and belief and represents the most up-to-date information at the time of publication. Providing our products are handled and used in accordance with the label instructions, they should offer no hazard to health or safety.