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According to Regulation (EC) No. 1907/2006 Version 2 Revision Date: 06/09/2017

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name GREENFORCE AUTUMN LF

Product number G60092 (15kg-UK), G60093 (3kg- UK)

REACH registration notes Exempt from REACH registration according to Regulation (EC) No. 1907/2006 (REACH)

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

Identified uses Fertiliser

1.3. Details of the supplier of the safety data sheet

Supplier Hygeia Chemicals Limited,

Carrowmoneash, Oranmore, Co. Galway,

Tel: +00353 91-794722 Fax: +00353 91-794738 Email: <u>Services@hygeia.ie</u>

1.4. Emergency telephone number

Emergency telephone UK - NHS 111

Natonal Poisons Information Centre: (Tel: +00353 1-8379964) (Fax: +00353 1-8368476

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification

Physical hazards Signal word

Health hazards
Hazard statements

Environmental hazards

2.2. Label elements

Pictogram





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Not Classified

Eye Irrit. 2 - H319

Not Classified

Warning

H319 Causes serious eye irritation.

EUH208 Contains nickel sulfate. May produce an allergic reaction.



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Precautionary statements

P280 Wear protective gloves/protective 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. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

3.2. Mixtures

SSP Single Superphosphate 10-30%

CAS number: 8011-76-5 EC number: 232-379-5 REACH registration number: 01-

2119488967-11-XXXX

Classification Classification (67/548/EEC or 1999/45/EC)

Fve Irrit. 2 - H319 Xi: R41

iron (II) sulfate 1-5%

CAS number: 7720-78-7 EC number: 231-753-5

Classification

Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eve Irrit. 2 - H319

nickel sulfate <1%

Classification

Acute Tox. 4 - H302 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Resp. Sens. 1 - H334

Skin Sens. 1 - H317

Muta. 2 - H341

Carc. 1A - H350i

Repr. 1B - H360D STOT RE 1 - H372 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.



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SECTION 4: First aid measures

4.1. Description of first aid measures

InhalationGet medical attention if symptoms are severe or persist.IngestionGet medical attention if symptoms are severe or persist.



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Skin contact Wash skin thoroughly with soap and water or use an approved skin cleanser. Get medical

attention if symptoms are severe or persist after washing.

Eye contact Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do.

Continue rinsing. Continue to rinse for at least 10 minutes. Get medical attention if symptoms

are severe or persist after washing.

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

Inhalation Dust in high concentrations may irritate the respiratory system.

Ingestion No harmful effects expected from quantities likely to be ingested by accident.

Skin contact May cause an allergic skin reaction.

Eye contact Prolonged or repeated exposure may cause severe irritation. May cause severe eye irritation.



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

Notes for the doctor Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.

Unsuitable extinguishing Not applicable.

media

5.2. Special hazards arising from the substance or mixture

Specific hazards None known.

5.3. Advice for firefighters

Protective actions during

firefighting

Evacuate area. Cool containers exposed to heat with water spray and remove them from the

fire area if it can be done without risk.

Special protective equipment

for firefighters

Use protective equipment appropriate for surrounding materials. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's

clothing conforming to European standard EN469 (including helmets, protective boots and

gloves) will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid inhalation of dust and contact with skin and eyes. Use suitable respiratory protection if

ventilation is inadequate. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Take care as floors and other

surfaces may become slippery.

6.2. Environmental precautions

Environmental precautions The product is slowly degradable. The product is not expected to be hazardous to the

environment. Avoid the spillage or runoff entering drains, sewers or watercourses.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Take care as floors and other surfaces may become slippery. Avoid generation and spreading

of dust. Collect spillage with a shovel and broom, or similar and reuse, if possible. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Dispose of contents/container in accordance with national regulations. Do not empty into

drains. Collect and dispose of spillage as indicated in Section 13.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling



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Usage precautions Read label before use. Wear appropriate clothing to prevent repeated or prolonged skin

contact. Avoid inhalation of dust and contact with skin and eyes.

Advice on general Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

occupational hygiene Wash at the end of each work shift and before eating, smoking and using the toilet.



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7.2. Conditions for safe storagei ncluding any incompatibilities

Storage precautions

Store in a dry place. Keep container in a well-ventilated place. Keep out of the reach of children. Store away from incompatible materials (see Section 10).

7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.



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SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

Sand (L)

Long-term exposure limit (8-hour TWA): Silica Dust (respirable) WEL 0.1Mg/m3

Ammonium Sulphate

Long-term exposure limit (8-hour TWA): LTEL 10Mg/m3

SSP Single Superphosphate (CAS: 8011-76-5)

DNEL Workers - Inhalation; Long term systemic effects: 3.1 mg/m³

Workers - Dermal; Long term systemic effects: 17.4 mg/kg/day General population - Inhalation; Long term systemic effects: 0.9 mg/m³ General population - Oral; Long term systemic effects: 2.1 mg/kg/day General population - Dermal; Long term systemic effects: 10.4 mg/kg/day

PNEC - Fresh water; 1.7 mg/l

Marine water; 0.17 mg/m³
Intermittent release; 17 mg/l

- STP; 10 mg/l

Potash (CAS: 7447-40-7)

DNEL Workers - Dermal; Short term systemic effects: 580 mg/kg/day

Workers - Dermal; Long term systemic effects: 580 mg/kg/day Workers - Inhalation; Short term systemic effects: 292 mg/m³ Workers - Inhalation; Long term systemic effects: 292 mg/m³

PNEC Industry - Fresh water; 0,047 mg/l

- Marine water; 0,047 mg/l

8.2. Exposure controls

Protective equipment

Appropriate engineering

controls

All handling should only take place in well-ventilated areas.

Eye/face protection Wear eye protection.

Hand protection Wear protective gloves.

Other skin and body Wear appropriate clothing to prevent repeated or prolonged skin contact.

Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.

No specific recommendations.

SECTION 9: Physical and Chemical Properties



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SAFETY DATA SHEET

Revision: 1

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Supersedes date: 13/05/2015

9.1. Information on basic physical and chemical properties

Appearance Granules.

Colour Beige. to Dark brown. or Black.

Odour Mild.

Odour threshold Not determined.

pH Slightly Acidic

Melting point Not relevant.

Initial boiling point and range Not relevant.

Flash point Not relevant.

Evaporation rate Not relevant.

Flammability (solid, gas) The product is not flammable.

Vapour pressure Not relevant.

Vapour density Not relevant.

Relative density Not relevant.

Solubility(ies) Not known.

Partition coefficient Not known.

Auto-ignition temperature Not relevant.

Decomposition Temperature Not relevant.

Viscosity Not relevant.

Explosive properties Not relevant.

Oxidising properties Does not meet the criteria for classification as oxidising.

9.2. Other information

Other information No information required.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No test data specifically related to reactivity available for this product or its ingredients.

10.2. Chemical stability

Stability Stable when stored in a dry place.

10.3. Possibility of hazardous reactions

Possibility of hazardous

Reaction

No potentially hazardous reactions known.



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10.4. Conditions to avoid

Conditions to avoid

There are no known conditions that are likely to result in a hazardous situation.

10.5. Incompatible materials

Materials to avoid

None known.

10.6. Hazardous decomposition products



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None known.

Hazardous decomposition

products

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg) 13,262.6

Acute toxicity - dermal

Notes (dermal LD₅₀) No specific test data are available.

Acute toxicity - inhalation

Notes (inhalation LC₅₀) No specific test data are available.

Skin corrosion/irritation

Skin corrosion/irritationContains Nickel Sulphate. May produce an allergic reaction.

Serious eye damage/irritation

Serious eye damage/irritation Irritation of eyes is assumed. In-vitro testing conducted on products with SSP Content <62%,

2015, Result: Reduced classification to Eye Irritant. Test Guideline OECD 438. This result is less severe than the harmonized classification for Super Phosphates as Eye Damage 1 H318.

Respiratory sensitisation

Respiratory sensitisation No specific test data are available.

Skin sensitisation

Skin sensitisationBased on available data the classification criteria are not met. Contains a small amount of a

skin sensitising substance. May cause irritation.

Germ cell mutagenicity

Genotoxicity - in vitroThis substance has no evidence of mutagenic properties.

Carcinogenicity

Carcinogenicity No specific test data are available.

Reproductive toxicity

Reproductive toxicity - fertility Does not contain any substances known to be toxic to reproduction.

Specific target organ toxicity - single exposure

STOT - single exposure Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure

Eye contact

Aspiration hazard Aspiration hazard

Skin contact



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Not classified as a specific target organ toxicant after repeated exposure.

May cause an allergic skin reaction. The product contains a small amount of sensitising substance.

Not anticipated to present an aspi May cause eye irritation. ration hazard, based on chemical structure.

SECTION 12: Ecological Information



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Ecotoxicity The product is not expected to be toxic to aq

uatic organisms.

12.1. Toxicity

12.2. Persistence and degradability

Persistence and degradability The product is slowly degradable.

12.3. Bioaccumulative potential

Partition coefficient Not known.

12.4. Mobility in soil

Mobility No data available.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB

assessment

This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects Not relevant.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Dispose of waste to licensed waste disposal site in accordance with the requirements of the

local Waste Disposal Authority.

Disposal methodsThe generation of waste should be minimised or avoided wherever possible. Reuse or recycle

products wherever possible. Only store in correctly labelled containers. Dispose of contents/container in accordance with national regulations. No specific disposal method

required. Do not empty into drains.

SECTION 14: Transport information

General The product is not covered by international regulations on the transport of dangerous goods

(IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards



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Environmentally hazardous substance/marine pollutant

No

Specific end use(s)



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14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and the IBC Code



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SECTION 15: Regulatory information

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

EU legislation 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).

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).

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet

ATE: Acute Toxicity Estimate.

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

Road.

ADN: European Agreement concerning the International Carriage of Dangerous Goods by

Inland Waterways.

CAS: Chemical Abstracts Service.

DNEL: Derived No Effect Level.

GHS: Globally Harmonized System.

IATA: International Air Transport Association.

IMDG: International Maritime Dangerous Goods.

ICAO-TI: Technical Instructions for the Safe Transport of Dangerous Goods by Air.

LC₅₀: Lethal Concentration to 50 % of a test population.

 $\ensuremath{\mathsf{LD}}_{50}\!:$ Lethal Dose to 50% of a test population (Median Lethal Dose).

PBT: Persistent, Bioaccumulative and Toxic substance.

PNEC: Predicted No Effect Concentration.

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation

(EC) No 1907/2006.

SVHC: Substances of Very High Concern.

vPvB: Very Persistent and Very Bioaccumulative. cATpE: Converted Acute Toxicity Point Estimate.

LOAEC: Lowest Observed Adverse Effect Concentration.

LOAEL: Lowest Observed Adverse Effect Level.

EC₅₀: 50% of maximal Effective Concentration.

NOAEL: No Observed Adverse Effect Level.

NOEC: No Observed Effect Concentration.

LOEC: Lowest Observed Effect Concentration.

DMEL: Derived Minimal Effect Level.

NOTE: Lines within the margin indicate significant changes from the previous revision.



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R20/22 Harmful by inhalation and if swallowed.

Risk phrases in full

R22 Harmful if swallowed.

R36/38 Irritating to eyes and skin.

R38 Irritating to skin.

R41 Risk of serious damage to eyes.

R42/43 May cause sensitisation by inhalation and skin contact.

R48/23 Toxic: danger of serious damage to health by prolonged exposure through inhalation.

R49 May cause cancer by inhalation.

 $R50/53 \ \ Very \ toxic \ to \ aquatic \ organisms, \ may \ cause \ long-term \ adverse \ effects \ in \ the \ aquatic$

environment.

R61 May cause harm to the unborn child.

R68 Possible risk of irreversible effects.

Hazard statements in full

H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H341 Suspected of causing genetic defects.

H350i May cause cancer by inhalation.

H360D May damage the unborn child.

H372 Causes damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

EUH208 Contains nickel sulfate. May produce an allergic reaction.



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