

According to Regulation (EC) No 1907/2006

Version1 / Revision date: 20/01/2022

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

1.1. Product identifier

Product name	GREENFORCE LAWN GOLD 20KG
Product number	G21031
REACH registration notes	This Mixture is exempt from REACH registration according to Regulation (EC) No. 1907/2006 (REACH) All raw materials used in the mixture are REACH registered where necessary.

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 Ltd Oranmore Co. Galway H91 Wk8X Tel: 091 794722 info@hygeia.ie
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Emergency telephone number

Emergency telephone	National Poisons Information Centre (NPI) Tel: 353 (1) 809 2166 (8.00 a.m. to 10.00 p.m. 7 days a week)
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards	Not Classified
Health hazards	Eye Irrit. 2 - H319
Environmental hazards	Aquatic Chronic 2 - H411

2.2. Label elements

Hazard pictograms



Signal word Warning

Hazard statements
H319 Causes serious eye irritation.
H411 Toxic to aquatic life with long lasting effects.

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Precautionary statements

P264 Wash contaminated skin thoroughly after handling.
P273 Avoid release to the environment.
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. P391
Collect spillage.
P501 Dispose of contents/ container in accordance with national regulations.

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 CAS			5-10%
number: 8011-76-5	EC number: 232-379-5	REACH registration number: 01-2119488967-11-0004	
Classification Eye		Classification (67/548/EEC or 1999/45/EC) Xi; R41	
Irrit. 2 - H319			
iron (II) sulfate			1-5%
CAS number: 7720-78-7	EC number: 231-753-5		
Classification			
Acute Tox. 4 - H302			
Skin Irrit. 2 - H315 Eye			
Irrit. 2 - H319			
Copper Sulphate			1-5%
CAS number: 7758-99-8 M	EC number: 231-847-6 M		
factor (Acute) = 10	factor (Chronic) = 10		
Classification		Classification (67/548/EEC or 1999/45/EC)	
Acute Tox. 4 - H302		Xn; R22. Xi; R36/38. N; R50/53	
Skin Irrit. 2 - H315			
Eye Irrit. 2 - H319			
Aquatic Acute 1 - H400			
Aquatic Chronic 1 - H410			

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Zinc Sulphate Monohydrate		1-5%
CAS number: 7446-20-0	EC number: 231-793-3	REACH registration number: 01-2119474684-27-0000
M factor (Acute) = 1	M factor (Chronic) = 1	
Classification Acute Tox. 4 - H302 Eye Dam. 1 - H318 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410		Classification (67/548/EEC or 1999/45/EC) Xn; R22. Xi; R41. N; R50/53

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General information	Get medical attention if any discomfort continues. Inhalation Get medical attention if symptoms are severe or persist.
Ingestion	Get medical attention if symptoms are severe or persist.
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	Skin irritation should not occur when used as recommended.
Eye contact	Prolonged or repeated exposure may cause severe irritation. May cause severe eye irritation. 4.3.

Indication of any immediate medical attention and special treatment needed

Notes for the doctor	Treat symptomatically.
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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 media Not applicable.

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.

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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.
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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.
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6.2. Environmental precautions

Environmental precautions	The product is slowly degradable. Toxic to aquatic life with long lasting effects. The product contains substances which are toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment. Avoid the spillage or runoff entering drains, sewers or watercourses. Avoid discharge to the aquatic environment. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.
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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.
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6.4. Reference to other sections

Reference to other sections	For personal protection, see Section 8. For waste disposal, see Section 13.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

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 occupational hygiene	Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Wash at the end of each work shift and before eating, smoking and using the toilet.

7.2. Conditions for safe storage, including 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).
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7.3. Specific end use(s)

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

Gypsum

Long-term exposure limit (8-hour TWA): WEL 4 mg/m³ respirable dust

Methylene Urea (Short)

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Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ inhalable dust Long-term exposure limit (8-hour TWA): WEL 3 mg/m³ respirable dust

Ammonium Sulphate

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

(II) sulfate

Long-term exposure limit (8-hour TWA): WEL 1 mg/m³ WEL
= Workplace Exposure Limit.

Potash (CAS: 7447-40-7)

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

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

DNEL Workers - Inhalation; Long term systemic effects: 3.1 mg/m³
Workers - Dermal; Long term systemic effects: 17.4mg/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/l
- Intermittent release; 17 mg/l
- STP; 10 mg/l

Urea (CAS: 57-13-6)

DNEL Consumer - Oral; Long term systemic effects: 42 mg/kg/day
Consumer - Oral; Short term systemic effects: 42 mg/kg/day
Consumer - Dermal; Long term systemic effects: 580 mg/kg/day
Consumer - Dermal; Short term systemic effects: 580mg/kg/day
Industry/Professional - Dermal; Long term systemic effects: 580 mg/kg/day
Industry/Professional - Dermal; Short term systemic effects: 580 mg/kg/day
Consumer - Inhalation; Long term systemic effects: 125 mg/m³
Consumer - Inhalation; Short term systemic effects: 125 mg/m³ Industry/Professional - Inhalation; Short term local effects: 292 mg/m³ Industry/Professional - Inhalation; Short term systemic effects: 292 mg/m³

PNEC - Fresh water; 0.47 mg/l
- marine water; 0.047 mg/l

Copper Sulphate (CAS: 7758-99-8)

DNEL

Industry - Oral; Long term systemic effects: 0.041 mg/kg/day

Industry - Oral; Short term systemic effects: 0.082mg/kg/day

Zinc Sulphate Monohydrate (CAS: 7446-20-0)

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DNEL

Industry - Inhalation; Long term systemic effects: 1 mg/m³ Industry - Dermal; Long term systemic effects: 8.3 mg/kg/day Consumer - Oral; Long term systemic effects: 0.83 mg/kg/day Professional - Inhalation; Long term systemic effects: 1.3 mg/m³ Consumer - Dermal; Long term systemic effects: 8.3 mg/kg/day

PNEC

- Fresh water; 0.0206 mg/l
- marine water; 0.0061 mg/l
- Sediment (Freshwater); 235.6 mg/kg
- Sediment (Marinewater); 113 mg/kg
- Soil; 106.8 mg/kg
- STP; 0.0052 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 protection

Wear appropriate clothing to prevent repeated or prolonged skin contact.

Hygienemeasures

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

Respiratoryprotection

No specific recommendations.

Environmental exposure controls

Keep container tightly sealed when not in use.

SECTION 9: Physical and chemical properties**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.

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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.
<u>Other information</u>	
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.
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10.2. Chemical stability

Stability	Stable when stored in a dry place.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	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.
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10.5. Incompatible materials

Materials to avoid	Water, moisture.
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10.6. Hazardous decomposition products

Hazardous decomposition products	None known.
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SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute toxicity - oral**

ATE oral (mg/kg) 13,467.45

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/irritation Based on available data the classification criteria are not met.

Serious eye damage/irritation

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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 sensitisation Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity -in vitro This 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 Not classified as a specific target organ toxicant after repeated exposure. Contains a minimal amount of Nickel Sulphate - STOT RE 1

Aspiration hazard

Aspiration hazard Not anticipated to present an aspiration hazard, based on chemical structure.

Eye contact

The product is considered to be a low hazard under normal conditions of use. May cause eye irritation.

SECTION 12: Ecological information

Ecotoxicity Toxic to aquatic life with long lasting effects. The product contains substances which are toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.
Contains Zinc Sulphate Mono Contains Copper Sulphate Contains Ferrous Sulphate

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

Result 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.

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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 methods	The 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).
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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

Environmentally hazardous substance/marine pollutant No.

14.6. Special precautions for user Not

applicable.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.
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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).
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15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

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Abbreviations and acronyms used inthesafetydatasheet

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: Technical Instructions for the Safe Transport of Dangerous Goods by Air. LC₅₀: Lethal Concentration to 50 % of a test population.
LD₅₀: 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.

Revision comments

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

Revision date

15/11/2019

Revision

3

Supersedes date

18/07/2019

SDS number

5533

Risk phrases in full

R22 Harmful if swallowed.
R36/38 Irritating to eyes and skin. R41
Risk of serious damage to eyes.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Hazard statements in full

H302 Harmful if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects. H411
Toxic to aquatic life with long lasting effects.



This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.