



Advance Grass Solutions Ltd

Material Safety Data Sheet

GP 3-0-22 +4Mgo+3Fe+6CaO+Seaweed

SECTION 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product Identifier

Product Name	GP 3-0-22+4MgO+3Fe+6CaO+Sw
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
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1.3 Details of the Supplier of the Safety Data Sheet

Advance Grass Solutions Ltd, Unit 6 Norcot Industrial Estate,
Sterling Way, Tilehurst, Reading, Berkshire RG30 6HW
+44 (0) 1183 914540
info@advancegrass.com

1.4 Emergency Telephone Number:

+44 (0) 118 3914540 – Normal hours are 07:30-16:30 Mon-Fri.
+44 (0) 7789 935208 – Out of normal hours only.

SECTION 2 Hazards Identification

2.1 Classification of the substance or mixture

Classification

Physical hazards	Not Classified
Health hazards	Skin Irrit. 2 – H315 Eye Irrit. 2 – H319
Environmental hazards	Not classified

2.2 Label Elements





Signal Word Warning

Hazard statements

H315 Causes skin irritation.
H319 Causes serious eye irritation.

Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 IF ON SKIN: Wash with plenty of 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 substance is not classified as PBT or vPvB according to current EU criteria.

SECTION 3 Composition/Information on Ingredients

3.2 Mixture

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)

Eye Irrit. 2 - H319

Xi, R41

Ferrous Sulphate 18%

10-30%

CAS number: 7720-78-7 **EC number** 231-753-5 **REACH registration number:** 01-2119513203-57-XXXX

Classification

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

Acute Tox. 4 - H302

Xn; R22; Xi; R36/38

Skin Irrit. 2 - H315

Eye Irrit. 2 - H319

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

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.
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 irritation. Prolonged contact may redness, irritation and dry skin.
Eye contact	Prolonged or repeated exposure may cause severe irritation. May cause serious 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.
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5.3 Advice for firefighters

Protective actions during Firefighting	No specific firefighting precautions known.
Special protective equipment For firefighters	Use protective equipment appropriate for surrounding materials.

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 procedures



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

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 Wash hands thoroughly after handling. Wash at the end of each work shift and before eating, smoking and using the toilet.

7.2 Condition for safe storage, including any incompatibilities

Storage precautions Store in a dry place.

7.3 Specific end uses(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8 Exposure Control/Personal Protection

8.1 Control parameters

Occupational Exposure Limits

Ferrous Sulphate 18% Long-term exposure limit (8-hour TWA): WEL 1mg/m³
Short term exposure limit (15 minute): WEL 2mg/m³

Ammonium Sulphate Long-term exposure limit (8-hour TWA): LTEL 10mg/m³

Dolomite Long-term exposure limit (8-hour TWA): WEL 10mg/m³ inhalable dust
Long-term exposure (8-hor TWA): WEL 4mg/m³ respirable dust

Calmag Magnesium Oxide Long-term exposure limit (8-hour TWA): WEL 10mg/m³ inhalable dust as Mg
Long term exposure limit (8-hour TWA): WEL 4mg/m³ fume and respirable dust as Mg

Urea Long-term exposure limit (8-hour TWA): WEL 10mg/m³ inhalable dust
Long term exposure limit (8-hour TWA): WEL 4mg/m³ respirable dust



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

PNEC
Industry - Fresh water; 0.047mg/l
Marine water; 0.047mg/l

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

DNEL
Workers – Dermal; Long term systemic effects: 17.4mg/kg/day
Workers – Inhalation; Long term systemic effects: 3.1mg/m³
General population – Oral; Long term systemic effects: 2.1mg/kg/day
General population – Dermal; Long term systemic effects: 10.4mg/kg/day
General population – Inhalation; Long Term systemic effects: 0.9mg/m³

PNEC
Fresh water; 1.7mg/l
Marine water; 0.17mg/l
Intermittent release; 17mg/l
STP; 10mg/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.

Hygiene Measures

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

Respiratory Protection

No specific recommendations.



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
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
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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

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

Hazardous Decomposition Products None known

SECTION 11 Toxicological Information

11.1 Information on toxicological effects

Acute toxicity – oral

ATE oral (mg/kg) 2,658.33333333

Acute toxicity – dermal

Notes (dermal LD50) No specific test data are available

Acute toxicity – inhalation

Notes (inhalation LC50) No specific test data are available

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 harmonised classification for Super Phosphates as Eye Damage 1 H318.

Respiratory sensitisation

Respiratory Sensitisation No specific test data are available

Skin sensitisation

Skin sensitisation Not determined

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 a single exposure.

Aspiration hazard

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

Skin Contact

Skin contact May cause irritation. Skin irritation should not occur when used as recommended.

Eye Contact

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 The product is not expected to be toxic to aquatic 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 Methods Reuse or recycle products wherever possible. No specific disposal method required.

SECTION 14 Transport Information

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



<u>14.1 UN Number</u>	Not Applicable
<u>14.2 UN proper Shipping Name</u>	Not Applicable
<u>14.3 Transport Hazard Class(es)</u>	No transport warning sign required
<u>14.4 Packing Group</u>	Not Applicable
<u>14.5 Environmental Hazards</u> Environmentally hazardous substance/marine pollutant	No
<u>14.6 Special precautions for user</u>	Not Applicable

<u>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</u> Transport in bulk according to Annex II of MARPOL 73/78 and 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

Revision comments	NOTE: Lines within the margin indicate significant changes from the previous revision.
SDS Number	4931
Hazard statements in full	H302 Harmful if swallowed. H315 Causes skin irritation. H319 Causes Serious eye irritation.

DISCLAIMER



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.