

# MATERIAL SAFETY DATA SHEET

## Amvista G0 Kick Start

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

#### **1.1 Product identifier**

Product name	Amvista G0 Kick Start
REACH registration notes	This Mixture is 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**

Supplier	Angus Horticulture Polmood, Guthrie Forfar, Angus, DD8 2TW
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#### **1.4 Emergency telephone number**

Emergency telephone number	+44 (0) 1241 829049
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### ***SECTION 2: Hazards identification***

#### **2.1 Classification of the substance or mixture**

##### **Classification (EC1272/2008)**

Physical hazards	Not classified
Health hazards	Eye Irrit. 2- H318
Environmental hazards	Not classified

#### **2.2 Label elements**

##### **Hazard pictograms**



Signal word	Danger
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Hazard statements	EUH208 contains nickel sulfate. May produce an allergic reaction H318 Causes serious eye damage
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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. P310 Immediately call a POISON CENTRE/Doctor
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Contains	Calcium Nitrate
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Supplementary Precautionary Statements	P264 Wash contaminated skin thoroughly after handling P321 Specific treatment (see medical advice on this label) P330 Rinse mouth P332+P313 If skin irritation occurs: Get medical advice/attention P362+P364 Take off contaminated clothing and wash it before use
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#### **2.3 Other hazards**

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

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**SECTION 3: Composition/information on ingredients**

**3.2 Mixtures**

<b>Calcium Nitrate</b> CAS Number: 15245-12-2	EC Number: 239-289-5 REACH registration Number: 01-2119488967-16-XXXX	<b>10-30%</b>
<b>Classification</b> Acute Tox 4 – H302 Eye Dam 1 – H318	<b>Classification (67/548/EEC or 1999/45/EC)</b> Xn; R22. Xi; R41	
<b>Iron (II) sulfate</b> CAS Number: 7720-78-7	EC Number: 231-753-5	<b>5-10%</b>
<b>Classification</b> Acute Tox 4 – H302 Skin Irrit 2 – H315 Eye Irrit 2 – H319		
<b>SSP Single Superphosphate</b> CAS Number: 8011-76-5	EC Number: 232-379-5 REACH registration Number: 01-2119488967-11-XXXX	<b>5-10%</b>
<b>Classification</b> Eye Irrit 2 – H319	<b>Classification (67/548/EEC or 1999/45/EC)</b> Xi; R41	
<b>Powder TSP</b> CAS Number: 65996-95-4	EC Number: 266-030-3 REACH registration Number: 01-2119493057-33-XXX	<b>5-10%</b>
<b>Classification</b> Eye Irrit 2 – H319	<b>Classification (67/548/EEC or 1999/45/EC)</b> Xi; R41	
<b>Nickel sulfate</b> CAS Number: 7786-81-4 M factor (Acute) = 1	EC Number: 232-104-9 M factor (Chronic) = 1	<b>0.0%</b>
<b>Classification</b> 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 Statement are Displayed in Section 16**

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### 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 after washing.
Eye contact	Rinse immediately with plenty water. Remove contact lenses, if present and easy to do so. 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	Prolonged contact may cause redness, irritation and dry skin. The product contains a small amount of sensitising substance. May cause allergic skin reaction.
Eye contact	Causes serious eye damage.

#### 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

Special hazards	None known
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#### 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. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.
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.
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#### 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
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#### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up	Take care as floors and others 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.

## 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 reach of children. Store away from incompatible materials (see Section 10)

### 7.3 Specific end use(s)

#### Specific end use(s)

The identified uses for this product are detailed in Section 1.2

## SECTION 8: Exposure controls/Personal protection

### 8.1 Control parameters Occupational exposure limits

#### Calmag Magnesium Oxide

Long-term exposure limit (8-hour TWA); WL 10mg/m<sup>3</sup> inhalable dust as Mg  
Long-term exposure limit (8-hour TWA): WEL 4mg/m<sup>3</sup> fume and respirable dust as Mg

WEL = Workplace Exposure Limit

#### Calcium Nitrate (CAS: 15245-12-2)

##### DNEL

Workers - Dermal; Long term systemic effects: 13.9 mg/kg/day.  
Workers - Inhalation; Long term systemic effects: 98 mg/m<sup>3</sup>

##### PNEC

- Fresh water; 0.45 mg/l  
- marine water; 0.045 mg/l  
- Intermittent release; 4.5 mg/l  
- STP; 18 mg/l

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

##### DNEL

Workers – Inhalation; Long term systemic effects: 3.1 mg/m<sup>3</sup>  
Workers – Dermal; Long term systemic effects: 17.4 mg/kg/day  
General population – Inhalation; Long term systemic effects: 0.9 mg/m<sup>3</sup>  
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

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### 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 & 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 & 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 & 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 hazardous situation
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### 10.5 Incompatible materials

Materials to avoid	None known
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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) 2,376.43

##### Acute toxicity – dermal

Notes (dermal LD<sub>50</sub>) No specific test data are available

##### Acute toxicity – inhalation

Notes (inhalation LC<sub>50</sub>) 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

Serious eye damage/irritation Causes serious eye damage. 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 Based on available data the classification criteria are not met. Contains a small amount of skin sensitising substance. May cause irritation.

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

##### 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

##### Aspiration hazard

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

##### Skin contact

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

##### Eye contact

Causes serious eye damage

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### SECTION 12: Ecological information

**Ecotoxicity** Contains Nickel Sulphate. The product is not expected to be hazardous to the environment. The product is not expected to be toxic to aquatic organisms. Not regarded as dangerous for the environment. No negative effects on the aquatic environment are known.

#### 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** 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 the 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 sign warning required

14.4 Packing group Not applicable

#### 14.5 Environmental hazards

**Environmental hazardous substance/marine pollutant** No

14.6 Special precautions for user Not applicable

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

**Transport in bulk according to Annex II of MARPOL 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 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 & 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 Harmonised System  
**IATA:** International Air Transport Association  
**IMDG:** International Maritime Dangerous Goods  
**ICAO-TI:** Technical Instructions for the Safe Transport of Dangerous Goods by Air  
**LC<sub>50</sub>:** Lethal Concentration to 50% of a test population  
**LD<sub>50</sub>:** Lethal Dose to 50% of a test population (Median Lethal Dose)  
**PBT:** Persistent, Bioaccumulative and Toxic substance  
**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  
**EC<sub>50</sub>:** 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



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### Risk phrases in full

R20/22 Harmful by inhalation and if swallowed  
R22 Harmful if swallowed  
R36/38 Irritating to eyes and skin  
R38 Irritation to skin  
R41/43 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  
H302 Harmful if swallowed  
H315 Causes skin irritation  
H317 May cause allergic skin reaction  
H318 Causes serious eye damage  
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