

**MATERIAL SAFETY DATA SHEET**  
**Amvista G4 Turf Rise**

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

**1.1 Product identifier**

Product name	Amvista G4 Turf Rise
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- H319
Environmental hazards	Aquatic Chronic 2 – H411

**2.2 Label elements**

**Hazard pictograms**



Signal word	Warning
Hazard statements	HUH208 Contains 3, 4-D (ISO). May produce an allergic reaction H319 Causes serious eye irritation H411 Toxic to aquatic life with long lasting effects

Precautionary statements	P264 Wash contaminated skin thoroughly after handling. 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
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Supplemental label information	EUH401 To avoid risks to human health and environment, comply with the instructions for use
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# MATERIAL SAFETY DATA SHEET

## Amvista G4 Turf Rise

**Supplementary precautionary statements** P270 Do not eat, drink or smoke when using this product. P273 Avoid release to the environment. P301+P312 IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell  
P330 Rinse mouth

### **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**

**iron (II) Sulfate** EC Number: 231-753-5 **10-30%**  
CAS Number: 7720-78-7

#### **Classification**

Acute Tox 4 – H302  
Skin Irrit 2 – H315  
Eye Irrit 2 – H319

**SSP Single Superphosphate** EC Number: 232-379-5 **5-10%**  
CAS Number: 8011-76-5 REACH registration Number: 01-2119488967-11-XXX

#### **Classification**

Eye Irrit. 2 – H319

**Classification (67/548/EEC or 1999/45/EC) Xi: R41**

**2, 4-D (ISO)** **1-5%**  
CAS Number: 94-75-7 EC Number: 202-361-1

#### **Classification**

Acute Tox 4 – H302  
Eye Dam 1 – H318  
Skin Sens 1 – H317  
STOT SE 3 – H335  
Aquatic Chronic 3 – H412

**<1%**

**mecoprop-P (1) and its salts** **<1%**  
CAS Number: 16484-77-8 EC number: 240-539-0

#### **Classification**

Acute Tox 4 – H302 Eye  
Dam 1 – H318  
Aquatic Chronic 2 – H411

**dicamba (ISO)** **<1%**  
CAS Number: 1918-00-9 EC number: 217-635-6

#### **Classification**

Acute Tox 4 – H302 Eye  
Da 1 – H318  
Aquatic Chronic 3 – H412

**The Full text for all R-Phrases and Hazard Statement are Displayed in Section 16**

# MATERIAL SAFETY DATA SHEET

## Amvista G4 Turf Rise

### 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	Rinse mouth. Do not induce vomiting unless under the direction of medical personnel. 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	The product is considered to be a low hazard under normal conditions of use
Skin contact	Skin irritation should not occur when used as recommended. The product is considered to be a low hazard under normal conditions of use.
Eye contact	Causes serious eye irritation. Prolonged or repeated exposure may cause severe 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

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 fire area if it can be done without risk.
Special protective equipment 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 (inc helmets, protective boots & 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 respiratory protection if ventilation is inadequate. Wear suitable protective equipment, inc 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. Avoid the spillage or runoff entering drains, sewers or watercourses. The product contains substances which are toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.
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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 labelled with correct content 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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# MATERIAL SAFETY DATA SHEET

## Amvista G4 Turf Rise

### 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 the 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

#### Sand

Long-term exposure limit (8-hour TWA): Silica Dust (respirable) WEL 0.1mg/m<sup>3</sup>

#### Potassium Sulphate SOP

Long-term exposure limit (8-hour TWA): WEL 10mg/m<sup>3</sup> inhalable dust. Long-term exposure limit (8-hour TWA): WEL 4mg/m<sup>3</sup> respirable dust  
**WEL = Workplace Exposure Limit**

#### 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

#### Potassium Sulphate SOP (CAS: 7447-80-7)

#### DNEL

Workers - Dermal; Long term systemic effects: 21.3 mg/kg/day  
Workers - Inhalation; Long term systemic effects: 37.6 mg/m<sup>3</sup>  
General Population – Oral; Long term systemic effects: 12.8mg/kg/day  
General Population – Dermal; Long term systemic effects: 12.8mg/kg/day  
General Population – Inhalation; Long term systemic effects: 11.1mg/m<sup>3</sup>

#### PNEC

Industry - Fresh water; 0.68 mg/l  
Marine water; 0.068 mg/l  
Intermittent release; 6.8mg/l  
STP; 10mg/l

# MATERIAL SAFETY DATA SHEET

## Amvista G4 Turf Rise

Urea (CAS: 57-13-6)

<b>DNEL</b>	Consumer – Oral; Long term systemic effects: 42mg/kg/day Consumer – Oral; Short term systemic effects: 42mg/kg/day Consumer – Dermal; Long term systemic effects: 580mg/kg/day Industry/Professional – Dermal; Long term systemic effects: 580 mg/kg/day Industry/Professional – Dermal; Short term systemic effects: 580mg/kg/day Consumer – Inhalation; Long term systemic effects: 125mg/m <sup>3</sup> Consumer – Inhalation; Short term systemic effects: 125mg/m <sup>3</sup> Industry/Professional; Short term local effects: 292 mg/m <sup>3</sup> Industry/Professional; Short term systemic effects 292 mg/m
<b>PNEC</b>	- Fresh Water; 0,47mg/l - Marine Water; 0,047mg/l

### 8.2 Exposure Controls

#### Protective equipment



<b>Appropriate engineering controls</b>	All handling should only take place in well-ventilated areas
<b>Eye/Face Protection</b>	Wear eye protection
<b>Hand Protection</b>	Wear protective gloves
<b>Other skin &amp; body protection</b>	Wear appropriate clothing to prevent repeated or prolonged skin contact
<b>Hygiene measures</b>	Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product
<b>Respiratory protection</b>	No specific recommendations

## **SECTION 9: Physical and Chemical properties**

### 9.1 Information on basic physical and chemical properties

<b>Appearance</b>	Granules
<b>Colour</b>	Beige to Dark Brown or Black
<b>Odour</b>	Mild
<b>Odour threshold</b>	Not determined
<b>pH</b>	Slightly Acidic
<b>Melting Point</b>	Not relevant
<b>Initial Boiling Point &amp; Range</b>	Not relevant
<b>Flash Point</b>	Not relevant
<b>Evaporation Rate</b>	Not relevant
<b>Flammability (solid,gas)</b>	The product is not flammable
<b>Vapour pressure</b>	Not relevant
<b>Vapour density</b>	Not relevant
<b>Relative density</b>	Not relevant
<b>Solubility (ies)</b>	Not known
<b>Partition coefficient</b>	Not known
<b>Auto-ignition temperature</b>	Not relevant
<b>Decomposition Temperature</b>	Not relevant
<b>Viscosity</b>	Not relevant
<b>Explosive properties</b>	Not relevant
<b>Oxidising properties</b>	Does not meet the criteria for classification as oxidising

### 9.2 Other information

<b>Other information</b>	No information required
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**MATERIAL SAFETY DATA SHEET**  
**Amvista G4 Turf Rise**

**SECTION 10: Stability & 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 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 hazardous situation

**10.5 Incompatible materials**

Materials to avoid Water, moisture

**10.6 Hazardous decomposition products**

Hazardous decomposition products None known

**SECTION 11: Toxicological Information**

**11.1 Information on toxicological effects**

**Acute toxicity - oral**

ATL oral (mg/kg) 4,173.0

**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 irritation. 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. May cause an allergic skin reaction

**Germ cell mutagenicity**

Genotoxicity – in vitro This substance has no evidence of mutagenic properties

**Carcinogenicity**

Carcinogenicity No specific test data are available. There is no evidence that the product can cause cancer

**Reproductive toxicity**

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

**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

**MATERIAL SAFETY DATA SHEET**  
**Amvista G4 Turf Rise**

Eye contact Causes serious 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.

**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 contents/ container in accordance with national regulations. 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

# MATERIAL SAFETY DATA SHEET

## Amvista G4 Turf Rise

### 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

#### 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 Harmonised System
IATA:	International Air Transport Association
IMDG:	International Maritime Dangerous Goods
ICAO:	Technical Instructions for the Safe Transport of Dangerous Goods by Air.
LC <sub>50</sub> :	Lethal Concentration of 50% of a test population
LD <sub>50</sub> :	Lethal Dose of 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
cAtP:	Converted Acute Toxicity Point Estimate
LOAEC:	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

#### Risk Phrases in full

#### Hazard statements in full

R22 – Harmful if swallowed  
R36/38 – Irritation to eyes and skin  
R37 – Irritation to respiratory system  
R41 – Risk of serious damage to eyes  
R43 – May cause sensitisation by skin contact  
R51/53 – Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment  
R52/53 – Harmful 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  
H317 – May cause an allergic skin reaction  
H318 – Causes serious eye damage  
H319 – Causes serious eye irritation  
H335 – May cause respiratory irritation  
H411 – Toxic to aquatic life with long lasting effects  
H412 – Harmful to aquatic life with long lasting effects  
EUH208 – contains 2,4-D (ISO). May produce an allergic reaction