

According to EC Regulations No. 453/2010 (REACH), 1272/2008 (CLP) & 453/2010

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Trade name PLUS COMPLETE GARDEN FEED
Product code XPCGF2XL, XPCGF61L, XPCGFYDL
REACH registration No. Not applicable

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

Identified use(s) Use as a fertiliser for professional and domestic foliar and soil applications

Uses advised against Not suitable for human consumption

1.3. Details of the supplier of the safety data sheet

Supplier name: Valagro UK Ltd
Supplier address: Valagro UK Ltd
P.O. Box 6027
Corby
NN17 1ZH

Supplier telephone: +44 (0) 8700 115117
Email: sales.uk@valagro.co.uk

1.4. Emergency telephone number

Emergency phone No. +44 (0) 7779 781813 (GMT English spoken, Mon-Fri – 08:00 – 17:00)

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture**

2.1.1. Regulation (EC) No.1272/2008 (CLP) Not classified for supply

2.2. Label elements**Labelling according Regulation (EC) No 1272/2008 [CLP]**

CLP Hazard Pictograms: No applicable hazard pictogram

Signal Word(s): No signal word

Hazard Statements: Not classified for supply

Precautionary Statements: Not classified for supply

2.3. Other hazards This product has not been tested for PBT or vPvB

SECTION 3: Composition/information on ingredients**3.2. Mixtures**

EC Classification No 1272/2008

No hazardous materials are present at a concentration threshold that triggers a classification under this regulation

This product contains seaweed extracts processed from natural sources and macronutrients from mineral sources

SECTION 4: First aid measures

4.1. Description of first aid measures

4.1.1. First aid instructions.

If inhaled:	Move person into fresh air, rest and seek medical advice
If on skin (or hair):	Wash affected skin with plenty of water. Wash clothes before reuse
If in eyes:	Wash affected eyes for several minutes under running water with eyelids held open. Remove contact lenses if possible. Seek medical advice
If swallowed:	Never give anything by mouth to an unconscious person. Rinse mouth and throat. Do not induce vomiting. Drink 1-2 glasses of water. Consult a physician
Other first aid advice:	If vomiting occurs spontaneously, keep airways clear. Give more water when vomiting stops

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

If inhaled:	Inhalation of mist or vapours may cause irritation of mucous membranes and upper respiratory tract. Symptoms may include irritation, coughing and tightness of breath
If on skin (or hair):	Product not known to be irritating. Itching, redness, soreness or a similar symptoms of minor skin irritation may occur to skin, especially when already sore or dry according to contact time
If in eyes:	Product not known to be irritating to eyes. Irritation of the eye tissues may occur together with redness and tearing
If swallowed:	Headache, nausea, vomiting and diarrhoea may occur. Ingestion of larger quantities (~100g / 3.5oz) can cause methemoglobinemia, which may manifest as cyanosis and breathing difficulties. Possible generation of ammonia may cause irritation to the mouth and oesophagus

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

Medical treatment:	Treatment for nitrate toxicity
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:	All extinguishing agents permitted
Unsuitable extinguishing media:	None known

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products: Ammonia, oxides of carbon, nitrogen, sulphur, potassium and phosphorus

Other special hazards during fire: None known

5.3. Advice for firefighters

Protective actions during firefighting: Wear self-containing breathing apparatus

Special protective equipment for firefighters: No special instructions

Other advice: Material may burn and enhance the combustion of other materials once dried

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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Non-emergency personnel PPE See section 8.2

Emergency responders PPE See section 8.2

Controlling risks from accidental release: Avoid contact with strong reducing agents and alkalis, which may generate ammonia

Emergency procedures: Evacuate personnel to safe areas.

6.2. Environmental precautions

Keep accidental releases away from: Drains, water courses, soil and open ground. Discharge to ground, water courses or drains can cause eutrophication

6.3. Methods and material for containment and cleaning up

Containing a spill: Mop up and contain with absorbent materials

Cleaning up a spill: Mop spills, recycle where possible

Other information on spill handling: Dilute with water. Capture with absorbent material. Recycle where possible

6.4. Reference to other sections

References to other sections: See section 8.2 for personal protective equipment. See section 13.1 for disposal considerations

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Safe handling recommendations: Wash hands and exposed skin before meals and after use. Where gloves when handling the product over long periods of time

Handling incompatibles:	Do not use strong reducing agents, acids or alkalis
Reducing environmental risk:	Do not discharge into drains or water courses
Occupational hygiene advice	Wash hands after using this product and before eating, drinking or smoking. Remove contaminated clothing and protective equipment before entering eating areas

7.2. Conditions for safe storage, including any incompatibilities

Safe storage: managing risks during storage:

Explosive atmospheres formed during storage:	Not applicable
Corrosive conditions during storage:	Not applicable
Flammability hazards during storage:	Not applicable
Incompatible substances or mixtures:	Incompatible with reducing agents, acids and alkalis
Evaporative conditions:	Not applicable
Potential ignition sources, including electrical equipment:	Not applicable

Safe storage: controlling effects of ambient conditions:

Weather conditions:	Do not store outside uncontained
Ambient pressure:	Not applicable
Temperature:	Do not allow product to freeze or exceed 30°C
Sunlight:	Keep out of direct sunlight
Humidity:	Not applicable
Vibration:	Not applicable

Safe storage: maintaining the integrity of the product:

Stabilisers:	Stabilisers are not used in this product
Antioxidants:	Antioxidants are not used in this product

Safe storage: other advice:

Ventilation requirements for storage:	No specific ventilation requirements
Specific designs for storage rooms or vessels:	No specific design criteria on storage areas apart from normal regulatory requirements for substances of this type
Quantity limits under storage conditions:	Not applicable
Suitable packaging for the substance:	Compatible with plastic and stainless steel metal containers

7.3. Specific end use(s)

Uses: Use as a fertiliser for professional and domestic foliar and soil applications

SECTION 8: Exposure controls/personal protection**8.1. Control parameters**

8.1.1 Occupational exposure limits:	Data not available
8.1.2 Biological Limit Values:	Not applicable
8.1.3 Current recommended monitoring procedures:	Not applicable
8.1.4 Air contaminants formed when using the product as intended:	Not applicable
8.1.5. PNECs and DNELs	Data not available

8.2. Exposure controls

8.2.1. Appropriate engineering controls: Good ventilation

8.2.2. Personal Protection Equipment

Eye protection: It is recommended that where this product is to be handled for an extended period; safety glasses tested and approved under appropriate government standards such as NIOSH (US) or EN166 (EU) are worn

Face protection: Not required

Hand protection: It is recommended that where this product is to be handled for an extended period; nitrile, latex or rubber gloves, which satisfy the specifications of EU Directive 89/686/EEC and the standard EN420 derived from it are worn

Other skin protection Do not wear open footwear

Respiratory protection Not required

Thermal hazards Not required

8.2.3. Environmental exposure controls Do not release substance to drains or surface water

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:	Brown liquid
Physical state:	Liquid
Colour:	Brown
Odour:	Slightly ammoniacal
Odour threshold:	Data not available
pH:	8.0 – 9.0

Melting point:	Data not available
Freezing point:	<0°C
Initial boiling point:	100°C
Boiling range:	Data not available
Flash point:	Data not available
Flash point method:	Data not available
Evaporation rate:	Data not available
Flammability (if solid or gas):	Data not available
Upper and lower flammability or explosive limits:	Data not available
Vapour pressure:	Data not available
Vapour density:	Data not available
Relative density:	1.12 – 1.20 g/cm ³ (at 20°C)
Solubility(ies)	Completely soluble in water
Partition coefficient: n-octanol/water	Data not available
Auto-ignition temperature	Data not available
Decomposition temperature	Data not available
Viscosity	<100 cPs (at 20°C)
Explosive properties	Data not available
Oxidising properties	Data not available
9.2. Other information	Data not available

SECTION 10: Stability and reactivity

10.1. Reactivity	Can react with strong reducing agents, acids and alkalis
10.2. Chemical stability	Product is stable under anticipated storage and handling conditions
10.3. Possibility of hazardous reactions	May release ammonia if heated or exposed to alkaline materials
10.4. Conditions to avoid	Excessive heat (to water boiling point), mixing with acidic or alkaline solutions
10.5. Incompatible materials	Oxidising agents, acids and alkalis
10.6. Hazardous decomposition products	Data not available

SECTION 11: Toxicological information
11.1. Information on toxicological effects

No specific testing has been undertaken for this product, values are extrapolated from constituents

Acute toxicity	LD50 >2,000 mg/kg body weight
Skin corrosion/irritation	LD50 >2,000 mg/kg body weight
Serious eye damage/irritation	Not classified as an eye irritant
Respiratory or skin sensitisation	Data not available
Germ cell mutagenicity	Data not available
Carcinogenicity	Data not available
Reproductive toxicity	Data not available
STOT-repeated exposure;	Data not available

11.2. Other information No other information

SECTION 12: Ecological information
12.1. Toxicity

No specific testing has been undertaken for this product, values are extrapolated from constituents

Species	Test	Value
Water flea (<i>Daphnia magna</i>)	48H EC50	>100 mg/L

12.2. Persistence and degradability Data not available

12.3. Bioaccumulative potential Data not available

12.4. Mobility in soil Data not available

12.5. Results of PBT and vPvB assessment Data not available

12.6. Other adverse effects

Environmental fate Not applicable

Photochemical ozone creation potential Not applicable

Ozone depletion potential Not applicable

Endocrine disrupting potential Not applicable

Global warming potential Not applicable

SECTION 13: Disposal considerations
13.1. Waste treatment methods

This material, if discarded as produced, is not classified as a hazardous waste

Waste treatment containers to be used for product include IBCs or drums

Recycle material where possible. If heavily soiled or disposal judged as necessary dispose to landfill in accordance with the Directive on waste 2008/98/EC

No specific waste treatment containers to be used for contaminated packaging, packaging should be recycled where possible. Waste treatment method for contaminated packaging should include a rinse with water. Dilute washings should be recycled where possible, possibly as a low grade fertiliser by a farmer or competent individual

SECTION 14: Transport information

14.1. UN number

Not applicable

14.2. UN proper shipping name

ADR/RID Not dangerous goods

IMDG Not dangerous goods

IATA Not dangerous goods

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

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

Not applicable

SECTION 15: Regulatory information

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

Ozone depleting substance (EC No 2037/2000): Not applicable

Persistent organic pollutants (EC No 850/2004) Not applicable

Export and import of dangerous chemicals (EC No 689/2008) Not applicable

COMAH/ Seveso II categories or named substance Not applicable

REACH Authorisations and/or Restrictions Not applicable

Any other relevant Safety, health and environmental regulations: Not applicable

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out for this product

SECTION 16: Other information

a) Changes made to SDS:

SDS completely rewritten from previous version

b) Key (or legend)

LD50 Lethal Dosage affecting 50% of sample population

EC50 Effective Concentration affecting 50% of sample population

c) Literature references

Data gathered for raw materials from European Chemicals Agency:

<http://echa.europa.eu/web/guest/information-on-chemicals/registered-substances>

Last accessed (28/04/2017)

Some physical properties reported from direct laboratory testing performed at Grotech Production Ltd

Some properties gathered from supplier SDS of constituent components

d) Details of relevant hazard information

Not applicable

e) Appropriate training for workers

Training with breathing apparatus, spillage handling and chemical handling is recommended

f) Classification method:

CLP classification