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	XTRA-FOL
Product code	XXTRA-FOL2XL
REACH registration No.	Not applicable

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

Identified use(s)	Use as an agricultural and horticultural soil and plant fertiliser
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
2.2.2. Directives 67/548/EEC, 1999/45/EC	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, however optional precautionary statements have been applied
P264	Wash hands thoroughly after handling
P280	Wear protective gloves and eye protection
P302 + P352	IF ON SKIN: Wash with plenty of soap and 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

P337 + P313	If eye irritation persists: Get medical advice/attention
P501	Dispose of contents in accordance with local regulations. Dispose of container to plastic recycling stream

According to European Directive 67/548/EEC as amended.

Hazard symbol(s)	Not classified for supply
Safety phrases:	Not classified for supply
2.3. Other hazards	This product is not PBT or vPvB

SECTION 3: Composition/information on ingredients

3.2. Mixtures

EC Classification No 1272/2008 / EEC

Hazardous ingredient(s)	%w/w	CAS no	EC no	REACH Registration no	H statements
Tetrapotassium pyrophosphate	>= 7 - <10	7320-34-5	230-785-7	01-2119489369-18-####	H319

Classification No 67/548/EEC

Hazardous ingredient(s)	%w/w	CAS no	EC no	REACH Registration no	Risk Phrases
Tetrapotassium pyrophosphate	>= 7 - <10	7320-34-5	230-785-7	01-2119489369-18-####	R36

SECTION 4: First aid measures

If inhaled:	Move person into fresh air, rest and seek medical advice
If on skin (or hair):	Wash affected skin with soap and water. Wash clothes before reuse
If in eyes:	Wash affected eyes for at least 15 minutes under running water with eyelids held open. Remove contact lenses if possible. Seek medical advice if irritation persists
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):	Irritation may occur to skin especially when already sore or dry according to contact time.

If in eyes:	Product may be irritating to eyes. Irritation of the eye tissues may occur together with redness and tearing
If swallowed:	Nausea and stomach pain may occur when swallowed

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

Medical treatment:	Treatment should be symptomatic

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, calcium, magnesium 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 once dried

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Non-emergency personnel PPE	See section 8.2
Emergency responders PPE	See section 8.2
Controlling risks from accidental release:	Avoid contact with strong oxidising agents and bases
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. Wear gloves when handling the product over long periods of time
Handling incompatibles:	Do not use strong oxidising agents, acids or bases
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 oxidising agents, acids and bases
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
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 metal containers

7.3. Specific end use(s)

Uses:	Use as an agricultural and horticultural soil and plant fertiliser

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:	Use safety glasses tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU)
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
Odour threshold:	Data not available
pH:	9.0 – 9.5
Melting point:	Data not available
Freezing point:	Data not available
Initial boiling point:	100ºC (for aqueous component)
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:	1.20 – 1.25 g/cm^3 (at 20ºC)
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	<50 cP at 20ºC
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 oxidising agents and bases

10.2. Chemical stability Product is stable under anticipated storage and handling conditions

10.3. Possibility of hazardous reactions Substance not known to react and/or polymerise

10.4. Conditions to avoid Excessive heat (to water boiling point), strong oxidising agents, acidic or alkaline solutions

10.5. Incompatible materials Oxidising agents, acids and bases. Acidic pH environments are known to cause the seaweed component to coagulate and drop out of solution. Highly basic pH environments are known to result in release of ammonia

10.6. Hazardous decomposition products No known hazardous decomposition products known

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 — Oral – Rat, LD50: >2,000 mg/kg bodyweight
Dermal – Rat, LD50: >2,000 mg/kg bodyweight

Skin corrosion/irritation — Data not available

Serious eye damage/irritation — Data not available

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
Fish‡	96H LC50	>100 *mg/L*
Water flea (*Daphnia magna*)	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	Product is not PBT / vPvB

12.6. Other adverse effects

Environmental fate	Data not available
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

Waste treatment containers to be used for product include bags or sacks, polythene and woven polypropylene are acceptable

Recycle material where possible such as dissolution into water followed by filtration. 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. Waste treatment method for contaminated packaging should include a rinse with water. Dilute washings should be recycled where possible

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:

Section 3; changes to component classification
Section 8; eye and skin PPE recommendations amended
Section 11; toxicity data caveated
Section 12; ecotoxicity data caveated

b) Key (or legend)

LD50	Lethal Dosage affecting 50% of sample population
LC50	Lethal Concentration 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:
hiip://echa.europa.eu/web/guest/information-on-chemicals/registered-substances
Last accessed (18/04/2017)
Some physical properties reported from direct laboratory testing performed at Grotech Production Ltd
Some properties gathered from supplier SDS of constituent components
‡ Data for components all quote values for toxicity to fish at an equivalent value of greater than 100 milligrams per litre for this product, however different fish varieties were used for the studies, preventing an aggregate value for a particular fish species being quoted

d) Details of relevant hazard information

H319	Causes serious eye irritation
P264	Wash hands thoroughly after handling
P280	Wear protective gloves and eye protection

P302 + P352	IF ON SKIN: Wash with plenty of soap and 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
P337 + P313	If eye irritation persists: Get medical advice/attention
P501	Dispose of contents in accordance with local regulations. Dispose of container to plastic recycling stream

R36	Irritating to eyes

e) Appropriate training for workers

Training for spillage handling and chemical handling is recommended

f) Classification method: CLP classification