

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

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

Trade name ORIGINAL SEAWEED EXTRACT  
Product code XOPGSYDL, XOPGS2XL, XOPGS4TL, XOPGS61L, XOPGSA61L  
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 home and garden fertiliser and bio-stimulant

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 07779 781813 (GMT English spoken, Mon-Fri – 08:00 – 17:00)

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**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

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

Hazard symbol(s) No applicable hazard pictogram

**2.3. Other hazards** This product is not PBT or vPvB

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

EC Classification No 1272/2008 / EEC Classification No 67/548/EEC

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

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**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 at least 15 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 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:	Product is not toxic on ingestion. 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
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**SECTION 5: Firefighting measures****5.1. Extinguishing media**

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

### 5.2. Special hazards arising from the substance or mixture

Hazardous combustion products: 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

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## 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

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

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## 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 with strong oxidising agents or acids

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 and acids
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 a home and garden fertiliser and bio-stimulant
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**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

Medium	(PNEC) µg/L
freshwater	6.5
marine water	0.7
intermittent release	65.3
soil	0.5
sewage treatment plant	0.1

**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

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**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

- Appearance: Brown liquid
- Physical state: Slightly viscous liquid
- Colour: Opaque brown

Odour:	Slightly sweet
Odour threshold:	Data not available
pH:	9.0 – 10.0
Melting point:	Data not available
Freezing point:	Data not available
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:	1.03 – 1.06 g/cm <sup>3</sup> (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	Data not available
Explosive properties	Data not available
Oxidising properties	Data not available
9.2. Other information	Data not available

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## SECTION 10: Stability and reactivity

<b>10.1. Reactivity</b>	Can react with strong oxidising agents
<b>10.2. Chemical stability</b>	Product is stable under anticipated storage and handling conditions
<b>10.3. Possibility of hazardous reactions</b>	Substance not known to react and/or polymerise
<b>10.4. Conditions to avoid</b>	Excessive heat (to water boiling point), mixing with acidic solutions
<b>10.5. Incompatible materials</b>	Oxidising agents

**10.6. Hazardous decomposition products** No known hazardous decomposition products known

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**SECTION 11: Toxicological information****11.1. Information on toxicological effects**

Extrapolated from constituents

Acute toxicity	Data not available
Skin corrosion/irritation	Not irritant (rabbit, OECD 404)
Serious eye damage/irritation	Mild irritant (rabbit, OECD 405)
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

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**SECTION 12: Ecological information****12.1. Toxicity**

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

Species	Test	Value
Zebrafish ( <i>Danio rerio</i> )	96H LC50	>100 mg/L
Water flea ( <i>Daphnia magna</i> )	48H EC50	>100 mg/L
Algae ( <i>Pseudokirchnerella subcapitata</i> )	72H EyC10	>100 mg/L

**12.2. Persistence and degradability** >60% biodegradation is reached within 17 days**12.3. Bioaccumulative potential** Product has a negative logK<sub>ow</sub> value, therefore a low potential for bioaccumulation and bio-concentration is expected**12.4. Mobility in soil** Product is not expected to adsorb to the sediment**12.5. Results of PBT and vPvB assessment** Product is not PBT / vPvB**12.6. Other adverse effects**

Environmental fate	Completely degraded after 26 days
Photochemical ozone creation potential	Not applicable
Ozone depletion potential	Not applicable
Endocrine disrupting potential	Not applicable

Global warming potential

Not applicable

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**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

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**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

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**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
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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

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## SECTION 16: Other information

### a) Changes made to SDS:

Section 1; changes to logo and company address  
Section 3; constituent data removed, explanatory statement added  
Section 4; exposure to skin information amended  
Section 8; Eye and skin PPE recommendations amended  
Section 12; Ecotoxicity data caveated

### b) Key (or legend)

LD50	Lethal Dosage affecting 50% of sample population
EC50	Effective Concentration affecting 50% of sample population
EyC10	Effective Concentration affecting the yield of 50% of sample population
LogK <sub>ow</sub>	The octanol-water partition coefficient
PNEC	Predicted No-Effect Concentration

### 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 (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

### d) Details of relevant hazard information

Not applicable

### e) Appropriate training for workers

Training for spillage handling and chemical handling is recommended

### f) Classification method:

CLP classification