

**Aqualatus**

**Section 1: Identification of the substance/preparation and of the company/undertaking**

**1.1 Product identifier**

Product Name: **Aqualatus**  
Supplier: Engage Agro Europe Ltd  
Chorley Business & Technology Centre  
Euxton Lane,  
Euxton, Chorley  
Lancashire PR7 6TE  
England  
Telephone: +44 (0) 1257 226590

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

Product use: Growing media wetting agent. For professional use only  
Uses advised against: All uses not specified in this section or in section 7.3.

**1.3 Emergency telephone**

Emergency Telephone	Type of Assistance	Opening Hours
0845 4647	England and Wales: NHS Direct – Health advice and assistance	24 Hours
08454 242424	Scotland: NHS24	24 Hours

**Section 2: Hazards identification**

**2.1 Classification of the Substance and Mixture**

**Caution:** Due to the existence of neutralisation ( $5 < \text{pH} < 9$ ) between the products components, the hazards in terms of corrosion potential are not individually provided for substances

**CLP Regulation (EC) n°1272/2008:** Classification of this product has been carried out in accordance with CLP Regulation (EC) N° 1272/2008.  
Not classified as dangerous

**2.2 Label elements**

**Hazard Statements:** Not classified as dangerous  
**Hazard Statement Response:** 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.  
**Hazard Pictograms:** Not classified as dangerous

**2.3 Other Hazards**

No Known hazards

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

**3.1 Substances**

Identification	Chemical name/Classification	Concentration	
CAS: 34590-94-8	<b>Dipropylene Glycol Methyl Ether</b>	3-<5%	
EC: 252-104-2	Regulation 1272/2008		Regulation 67/548/EEC / 1999/45/EC
Index: Not applicable			
REACH: 01-2119450011-60			

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**Section 4: First aid measures**

**4.1 Description of first aid measures**

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention.

- By inhalation:** This product does not contain substances classified as hazardous for inhalation, however, in case of symptoms of intoxication remove the person affected from the exposure area and provide with fresh air. Seek medical attention if the symptoms get worse or persist.
- By skin contact:** In case of contact it is recommended to clean the affected area thoroughly with water and neutral soap. In case of modifications on the skin (stinging, redness, rashes, blisters....) seek medical advice with this safety
- By eye contact:** This product does not contain substances classified as hazardous for eye contact. Rinse eyes thoroughly for at least 15 minutes with lukewarm water, ensuring that the person affected does not rub or close their eyes.
- By Ingestion:** In case of consumption, seek immediate medical assistance showing the MSDS of this product.

**4.2 Most Important symptoms and effects, both acute and delayed:**

Acute and delayed effects are indicated in Sections 2 and 11.

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

Not applicable

**Section 5: Fire-fighting measures**

**5.1 Extinguishing media**

- Extinguishing media:** Product is non-flammable under normal conditions of storage, manipulation and use. In the case of inflammation as a result of improper manipulation, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the regulation on fire protection systems. IT IS NOT RECOMMENDED to use tap water as an extinguishing agent.

**5.2 Special hazards arising from the substance or mixture**

- Exposure hazards:** As a result of combustion or thermal decomposition, reactive sub-products are created that can become highly toxic and consequently, can present a serious health risk.

**5.3 Advice for firefighters**

- Advice for fire-fighters:** Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kits...) in accordance with Directive 89/654/EC.
- Additional provisions** Act in accordance with the Internal Emergency Plan and the Information Sheet on actions to take after an accident or other emergencies. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

**Section 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures**

- Personal precautions:** Isolate leaks provided there is no additional risk for the people performing the task. Personal protective equipment must be used against potential contact with the spilt product (See Section 8). Evacuate the area and keep out those who do not have protection.

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**6.2 Environmental precautions**

**Environmental precautions:** This product is not classified as hazardous to the environment. Keep product away from drains, surface and ground water.

**6.3 Methods and material for containment and cleaning up**

**Clean-up procedures:** It is recommended: Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal see Section 13.

**6.4 Reference to other sections**

**Reference to other sections:** See Sections 8 and 13.

**Section 7: Handling and storage**

**7.1 Precautions for safe handling**

**A - Precautions for safe manipulation:** Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (See section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

**B - Technical recommendations for the prevention of fires and explosions:** Product is non-flammable under normal conditions of storage, manipulation and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on conditions and materials that should be avoided.

**C - Technical recommendations to prevent ergonomically and toxicological risks:** Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

**D - Technical recommendations to prevent environmental risks:** It is recommended to have absorbent material available at close proximity to the product (see section 6 Methods and Material for Containment and Cleaning up).

**7.2 Conditions for safe storage, including any incompatibilities**

**General conditions for storage:** Store between 0-40°C for a maximum of 24 months. Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5.

**7.3 Specific end use(s)**

**Specific end use(s):** Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

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**Section 8: Exposure controls/personal protection**

**8.1 Control Parameters**

Substances whose occupational exposure limits have to be monitored in the work environment.

Identification	Environmental limits		
	Dipropylene Glycol Methyl Ether	IOELV (8h)	50ppm
IOELV (STEL)			
Year		2015	

**DNEL (workers):**

Identification		Short exposure		Long exposure	
		Dipropylene Glycol Methyl Ether	Oral	Not applicable	Not applicable
	Dermal	Not applicable	Not applicable	65 mg/kg	Not applicable
	Inhalation	Not applicable	Not applicable	310 mg/m <sup>3</sup>	Not applicable

**DNEL (General population):**

Identification		Short exposure		Long exposure	
		Dipropylene Glycol Methyl Ether	Oral	Not applicable	Not applicable
	Dermal	Not applicable	Not applicable	15 mg/kg	Not applicable
	Inhalation	Not applicable	Not applicable	37.2 mg/m <sup>3</sup>	Not applicable

**PNEC:**

Identification				
	Dipropylene Glycol Methyl Ether	Fresh Water	19 mg/L	STP
Marine water		1.9 mg/L	Soil	2.74 mg/kg
Sediment (fresh water)		70.2 mg/kg	Intermittent	190 mg/L
Sediment (marine water)		7.02 mg/kg	Oral	Not-applicable

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**8.2 Exposure controls**

**A - General security and hygiene measures in the work place**

As a preventative measure it is recommended to use basic personal protective equipment, with the corresponding 'CE Marking' in accordance with Directive 89/86/EC. For more information on personal protective equipment (storage, use, cleaning, maintenance, class of protection...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal

**B - Specific Respiratory Protection**

The use of protection equipment will be necessary if a mist forms or if the professional exposure limits are exceeded.

**C - Specific protection for the hands**

Not applicable

**D - Ocular and facial protection**

Not applicable

**E - Bodily protection**

Not applicable

**Environmental exposure controls:**

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D.

**Volatile organic compounds**

With regard to Directive 2010/75/EU, this product has the following characteristics:

V.O.C (Supply):	4.92% weight
V.O.C. density at 20°C:	51.28 kg/m <sup>3</sup> (51.28 g/L)
Average carbon number:	7
Average molecular weight:	148.18 g/mol

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**Section 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

Physical state at 20°C:	Liquid
Appearance:	Characteristic
Colour:	Brown
Odour:	Characteristic
Boiling point:	Not applicable*
Vapour pressure:	Not applicable*
Evaporation rate:	Not applicable*
Density at 20°C:	1032-1052 kg/m <sup>3</sup>
Relative density at 20°C:	1.032-1.052
Dynamic viscosity at 20°C:	Not applicable*
Kinematic viscosity at 20°C:	Not applicable*
Kinematic viscosity at 40°C:	Not applicable*
Concentration:	Not applicable*
pH:	5.8-7.8 to 1%
Vapour density at 20°C:	Not applicable*
Partition coefficient:	Not applicable*
Solubility in water at 20°C:	Not applicable*
Solubility property:	Miscible
Decomposition temperature:	Not applicable*
Melting/freezing point:	Not applicable*
Flash point:	Non-flammable (>60°C)
Autoignition temperature:	Not applicable*
Lower flammability limit:	Not applicable*
Upper flammability limit:	Not applicable*

**9.2 Other Information**

Surface tension at 20°C:	Not applicable*
Refraction index:	Not applicable*

\*Not relevant due to the nature of the product, not providing information property of its hazards.

**Section 10: Stability and reactivity**

**10.1 Reactivity**

**Reactivity:** No hazardous reactions are expected if following the technical instructions for storage of chemicals. See Section 7.

**10.2 Chemical stability**

**Chemical stability:** Chemically stable under the conditions of storage, handling and use.

**10.3 Possibility of hazardous reactions**

**Hazardous reactions:** Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

**10.4 Conditions to avoid**

**Conditions to avoid:** None Known

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**10.5 Incompatible materials**

**Incompatible materials:** Alkalis or strong bases

**10.6 Hazardous decomposition products**

**Haz. Decomposition Products:** See subsection 10.3, 10.4 and 10.5 to find out specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide, carbon monoxide and other organic compounds.

**Section 11: Toxicological information**

**11.1 Information on toxicological effects**

The experimental information related to the toxicological properties of the product itself is not available. Contains Glycols. With possibility of effects that are hazardous to health, it is recommended not to breathe the vapours for long periods of time.

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure:

**A - Ingestion:**

Acute toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for consumption. For more information see Section 3.

Corrosive/irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect.

**B- Inhalation:**

Acute Toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see Section 3.

Corrosive/irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see Section 3.

**C- Contact with the skin and eyes:**

Contact with the skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for skin contact. For more information see Section 3.

Contact with the eyes: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see Section 3.

**D - CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):**

Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned. For more information see Section 3.

Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned. For more information see Section 3.

Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned. For more information see Section 3.

**E - Sensitising effects:**

Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see Section 3.

Cutaneous: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see Section 3.

**F - Specific target organ toxicity (STOT)-time exposure:**

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see Section 3.

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**G - Specific target organ toxicity (STOT)-repeated exposure:**

Specific target organ toxicity (STOT) repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see Section 3.

Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see Section 3.

**H - Aspiration hazard:**

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see Section 3.

**11.2 Specific toxicology information on the substances**

Identification	Acute toxicity		Genus
Dipropylene Glycol Methyl Ether	LD50 Oral	>2000 mg/kg	
	LD50 dermal	>2000 mg/kg	
	Year	LC50 inhalation	

**Section 12: Ecological information**

**12.1 Toxicity**

Identification	Acute Toxicity		Species	Genus
Dipropylene Glycol Methyl Ether	LC50	10000 mg/L (96h)	Pimephales promelas	Fish
	EC50	1919 mg/L (48h)	Daphnia magna	Crustacean
	EC50	Not applicable		

**12.2 Persistence and degradability**

Identification	Degradability		Biodegradability	
Dipropylene Glycol Methyl Ether	BOD5	Not applicable	Concentration	Not applicable
	COD	0.00202 g O2/g	Period	28 days
	BOD5/COD	Not applicable	% Biodegradable	73%

**12.3 Bioaccumulative potential**

Identification	Bioaccumulation potential	
Dipropylene Glycol Methyl Ether	BCF	1
	Pow Log	-0.06
	Potential	Low

**12.4 Mobility in soil**

No data available

**12.5 Results of PBT and vPvB assessment**

Not applicable

**12.6 Other adverse effects**

No data available

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**Section 13: Disposal considerations**

**13.1 Waste treatment methods**

Code	Description	Waste class (Regulation (EU) No 1357/2014)
-	It is not possible to assign a specific code as it depends on the intended use by the user	Non Dangerous

**Type of Waste (Regulation (EU) No 1357/2014):**

Not applicable

**Waste Management (disposal and evaluation):**

Consult the authorised waste service manager on the assessment and disposal operations in accordance with Annex I and Annex II (Directive 2008/98/EC). Under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed in the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommend disposal down the drain. See paragraph 6.2.

**Regulations related to waste management:**

In accordance with Annex I of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated.

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1356/2014

**Section 14: Transport information**

**14.1 UN Number**

This product is not classified as dangerous for carriage.

**14.2 UN proper shipping name**

The product is not classified as dangerous for carriage.

**14.3 Transport hazard class(es)**

This product is not classified as dangerous for carriage.

**14.4 Packaging group**

The products is not classified as dangerous for carriage.

**14.5 Environmental hazards**

The product is not classified as dangerous for carriage.

**14.6 Special precautions for user**

The product is not classified as dangerous for carriage.

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code**

The product is not classified as dangerous for carriage.

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**Section 15: Regulatory information**

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

**Specific regulations:**

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC with amendments.  
COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending regulation (EC)No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)  
REGULATION (EC) No 1727/2008 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) of 16 December 2008 on classification, labelling and packaging of substances and mixture, amending and repealing Directives 6/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; with amendments  
Regulation (EU) No 946/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals  
Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on Persistent organic Pollutants and amending Directive 79/117/EC  
European Agreement Concerning the Carriage of Dangerous Goods by Road (ADR), 2015

**15.2 Chemical Safety Assessment**

**Chemical safety assessment:** No data available

**Section 16 Other information**

**Legislation related to safety data sheets:**

This safety data sheet has been designed in accordance with Annex II-Guide to the compilation of safety data sheets of Regulation (EC) N° 1907/2006 (Regulation (EU) N° 453/2010, Regulation (EC) N° 2015/830)

**Modifications related to the previous security card which concerns the ways of managing risks:**

Non-applicable

**Texts of the legislative phrases mentioned in section 2:**

Not classified as dangerous

**Texts of the legislative phrases mentioned in section 3:**

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3.

**CLP Regulation (EC) n° 1272/2008:**

Not classified as dangerous

**Legal disclaimer:**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

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