

Angus Horticulture Ltd

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Material Safety Data Sheet

Angus AquaEasy[™]

SECTION 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product Identifier

Product Name Angus AquaEasy™ Substance Name Alkoxylate

1.2 Relevant identified uses of the Substance or Mixture and uses advised against

Identified Uses Wetting agent/soil penetrant

1.3 Details of the Supplier of the Safety Data Sheet

Supplier Angus Horticulture Limited

Polmood Guthrie FORFAR DD8 2TW

+44 (0) 1241 829049 +44 (0) 1241 829043

Sales@angus-horticulture.co.uk

<u>1.4 Emergency Contact Number</u> +44 (0) 1674 674253/674352

SECTION 2 Hazards Identification

2.1 Classification of the substance or mixture

Classification (Regulation (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (ECO No. 1272/2008.

Classification (67/548/EEC, 1999/45/EC

Not a hazardous substance or mixture according to EC-directives 67/548/EEC or

1999/45/EC.

2.2 Label Elements Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.3 Other Hazards

Skin contact May irritate skin. Eye contact May irritate eyes.

Ingestion May cause irritation to mucous membranes.

Inhalation May cause irritation of respiratory tract.



SECTION 3 Composition/Information on Ingredients

3.1 Substances

Substance name Alkoxylate 'Angus AquaEasy'

No dangerous ingredients according to Regulation (EC) No. 1907/2006.

SECTION 4 First Aid Measures

4.1 Description of first aid measures

Inhalation If breathed in, move person into fresh air. If symptoms persist, call a physician.

Skin contact Wash off with soap and plenty of water If symptoms persist, call a physician.

Eye contact Immediately flush eye(s) with plenty of water. If eye irritation persists, consult a

Physician.

Ingestion If large quantities of this material are swallowed, call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms None known.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment None known.

SECTION 5 Firefighting Measures

5.1 Extinguishing media

Suitable extinguishing media Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment. Use water spray, alcohol-resistant foam, dry chemical, or

carbon dioxide.

Unsuitable extinguishing media High volume water jet.

5.2 Special hazards arising from the substance or mixture

Specific hazards during

Firefighting Do not use a solid water stream as it may scatter and spread fire. Do not allow run-off

from firefighting to enter drains or water courses. In case of fire hazardous

decomposition products may be produced such as: Carbon Dioxide

5.3 Advice for firefighters

Special protective equipment In the event of fire, wear self-contained breathing apparatus.

Further information Collect contaminated fire extinguishing water separately. This must not be discharged

into drains.

Fire residues and contaminated fire extinguishing waster must be disposed of in

accordance with local regulation.

SECTION 6 Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions Use personal protective equipment.

6.2 Environmental procedures

Environmental precautions Prevent product from entering drains.



6.3 Methods and material for containment and cleaning up

Clean-up procedures Soak up with inert absorbent material. Sweep up and shovel into suitable containers for

disposal.

<u>6.4 Reference to other sections</u> None.

SECTION 7 Handling and Storage

7.1 Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

Advice on protection against

fire and explosion

Normal measures for preventive fire protection.

Hygiene measures Handle in accordance with good industrial hygiene and safety practice.

7.2 Condition for safe storage, including any incompatibilities

Requirements for storage areas Store

and containers

Store in original container. Keep container tightly closed in a dry well-ventilated place.

Advice on common storage No special restrictions on storage with other products.

Other data Stable under recommended storage conditions.

7.3 Specific end uses(s)

Recommendations N/A.

SECTION 8 Exposure Control/Personal Protection

<u>8.1 Control parameters</u> Contains no substances with occupational exposure limit values.

8.2 Exposure Controls

Personal protective equipment

Eye protection Safety glasses.

Hand protection

Remarks For prolonged or repeated contact use protective gloves.

Skin and body protection Impervious clothing.

Respiratory protection No personal respiratory protective equipment normally required.

Environmental exposure controls

General advice Prevent product from entering drains.

SECTION 9: Physical and Chemical Properties

Appearance Liquid

Colour almost colourless, light yellow.

Odour Mild

Odour threshold No data available

pH 5-7, (as aqueous solution).

Melting point/range -9° C

Initial boiling point and range No data available

Flash point >230°C – Method: Open cup.



No data available Evaporation rate No data available Flammability(solid, gas) Upper flammability No data available Lower flammability No data available Vapour pressure No data available Vapour density No data available Relative vapour density No data available $1.03 \text{ g/cm}^3 (25^0 \text{ C})$ Density

Solubility(ies) Water solubility

soluble Solubility in other solvents soluble

Solvent: ethanol

Soluble

Solvent: toluene

Soluble

Solvent: kerosene

No data available

Insoluble

390° C

Solvent: ethylene glycol

Partition coefficient n-octanol/water

Auto ignition temperature

Thermal decomposition

No data available Viscosity Dynamic: 420mPa.s (25°C)

Kinematic: no data available

Explosive properties Classification Code: no data available

Oxidising properties No data available

9.2 Other information

Surface tension Not determined

SECTION 10 Stability and Reactivity

10.1 Reactivity No data available.

Stable under normal conditions. 10.2 Chemical Stability

10.3 Possibility of hazardous reactions

Hazardous reactions Stable under recommended storage conditions.

10.4 Conditions to avoid None known.

10.5 Incompatible materials

Materials to avoid Strong oxidising agents. 10.6 Hazardous decomposition products No data available.

SECTION 11 Toxicological Information

11.1 Information on toxicological effects

Acute Toxicity

Product Acute - Oral LD50 Oral Rat estimated >5,000 mg/kg

> Acute- Inhalation No data available Acute - Dermal No data available



Skin corrosion/irritation

Product Species: Rat

Results: No skin irritation

Serious eye damage/irritation

Product Species: Rabbit

Results: Slight irritation

Respiratory or skin sensitisation

Product Remarks: No data available.

Germ cell Mutagenicity

Product Genotoxicity in vitro: Type – Ames test

Result - negative

Carcinogenicity

Product Test substance: No data available.

Reproductive toxicity

Product Effect on fertility: Test substance: No test data available.

STOT - single exposure

Product Assessment: No data available.

Aspiration toxicity

Product No data available.

Further information

Product Remarks: No data available.

SECTION 12 Ecological Information

12.1 Toxicity Product

Toxicity to Fish LC50 (Oncorhynchus mykiss (rainbow trout): >1,000 mg/l

Exposure time: 96h Test Method: static test

12.2 Persistence and Degradability

<u>Product</u> Biodegradation - Remarks: Expected to be biodegradable. This surfactant

complies with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent

manufacturer.

12.3 Bio-accumulative Potential

<u>Product</u>

Bioaccumulation Remarks: No data available.
Partition coefficient: Remarks: No data available.

n-octanol/water



12.4 Mobility in Soil

Product

Distribution among environmental Remarks: No data available.

compartments

12.5 Results of PBT and vPvB

<u>Product</u>

<u>Assessment</u> No data available.

12.6 Other adverse effects

Product

Environmental fate and pathways None.

Additional ecological information No data available.

SECTION 13 Disposal Considerations

Waste Treatment Methods

Product Dispose of in accordance with local regulations.

Contaminated Packaging Empty remaining contents.

Empty containers should be taken to an approved waste handling site for recycling or

Disposal.

SECTION 14 Transport Information

14.1 UN Number Not regulated as a dangerous good.14.2 Proper shipping name Not regulated as a dangerous good.

14.3 Transport hazard class(es)
 14.4 Packing group
 14.5 Environmental hazards
 Not regulated as a dangerous good.
 Not regulated as a dangerous good.

14.6 Special precautions for user Remarks: Not classified as dangerous in the meaning of transport regulations.

14.7 Transport in bulk according Not applicable for product as supplied.

to Annex II or MARPOL 73/78

and the IBC code

SECTION 15 Regulatory Information

15.1 Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture

Water contaminating class: WGK 1 slightly water endangering.

(Germany)

The components of this product are reported in the following inventories:

TSCA: All chemical substances in this product are listed on the TSCA Inventory.

REACH: On the inventory, or in compliance with the inventory. DSL: All components of this product are on the Canadian DSL. AICS: On the inventory, or in compliance with the inventory. **ENCS:** On the inventory, or in compliance with the inventory. ISHL: On the inventory, or in compliance with the inventory. KECI: On the inventory, or in compliance with the inventory. PICCS: On the inventory, or in compliance with the inventory. **IECSC:** On the inventory, or in compliance with the inventory.



Inventories

AICS (Australia), DSL (Canada), IECSC (China), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIOC (New Zealand), PICCS (Philippines), TSCA (USA).

15.2 Chemical Safety Assessment

This information is not available.

SECTION 16 Other Information

DISCLAIMER

The information in the safety document apples only to the specific product detailed in Section 1 and is not necessarily correct for use with other chemicals/products.

The product information in this data sheet is, to the best of Angus Horticulture's knowledge, correct at the date of publication.

The Manufacturer or Supplier does not accept liability for any loss or damage resulting from reliance on this information. Final determination of the suitability of any product is the responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, it cannot be guaranteed that these are the only hazards that exist.

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