MATERIAL SAFETY DATA SHEET
Angus Humic & Fulvic Acid

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name Angus Humic & Fulvic Acid

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

Identified uses Fertiliser

1.3 Details of the supplier of the safety data sheet

Supplier Angus Horticulture
Polmood, Guthrie
Forfar, Angus, DD8 2TW
Telephone +44 (0)1241 829049
Fax +44 (0)1241 829043
E-mail sales@angus-horticulture.co.uk

1.4 Emergency telephone number

Emergency telephone number 01865 407333 ANGUSHORTICULTURE29003-NCEC
Contact National Chemical Emergency Centre

National response centre
Address NHS Direct
Emergency telephone number +44 111

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (EC1272/2008)

Physical hazards Not classified.
Health hazards Not classified.
Environmental hazards Not classified.

2.2 Label elements

Hazard pictograms Not classified.
Signal word Not classified.
Hazard statements Not classified.
Precautionary statements Not classified.

2.3 Other hazards

This substance is not classified as PBT or vPvB according to current EU criteria.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

The product mixture contains no ingredients that are classified according to Regulation (EC) No 1272/2008 (CLP).
Humic Acid, Potassium Salt EC Number: 271-030-1
CAS Number: 68514-28-3 REACH registration Number: 01-2119484861-29-XXX **≥26.5%**
Classification according to Regulation (EC) No 1272/2008 (CLP)
Not classified

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The Full text for all R-Phrases and Hazard Statement are Displayed in Section 16.

SECTION 4: First Aid measures

4.1 Description of first aid measures

Inhalation	Remove to fresh air. Get medical attention if symptoms are severe or persist.
Eye contact	Rinse immediately with plenty water. Remove contact lenses, if present and easy to do so. Continue rinsing. Continue to rinse for at least 10 minutes. Get medical attention if symptoms are severe or persist after washing.
Skin contact	Wash contaminated skin with fresh water. Get medical attention if symptoms are severe or persist after washing.
Ingestion	Rinse mouth out with water. If person is conscious, give plenty of water to drink. Get medical attention if symptoms are severe or persist.
Self-protection of first aiders	No action shall be taken involving any personal risk or without suitable training. Personal protective equipment for first aid responders is recommended. Wear protective gloves when assisting patient.

4.2 Most important symptoms and effects, both acute and delayed

Eye contact	Eye irritation should not occur when used as recommended.
Inhalation	Inhalation should not occur when used as recommended.
Ingestion	No harmful effects expected from quantities likely to be ingested by accident.
Skin contact	Skin irritation should not occur when used as recommended.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media Extinguish with water spray or foam. Do not use water stream, as it might spread the fire.

5.2 Special hazards arising from the substance or mixture

In combustion, can emit Carbon dioxides, Nitrogen oxides and aerosols of Carbon Black.

5.3 Advice for firefighters Dilute toxic gases with water spray. Use protective equipment appropriate for surrounding materials.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid inhalation of dust and contact with skin and eyes. Use respiratory protection if ventilation is inadequate. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate.

6.2 Environmental precautions Prevent large quantities of product from having contact with vegetation or waterways. Keep animals away from large spillages.

6.3 Methods and material for containment and cleaning up

Soak up product with absorbent material such as dry sand or earth and shovel absorbed substance into closing containers. Clean contaminated surfaces with an excess of water. Take care as floors and other surfaces may become slippery. Wash clothing and equipment after handling. Collect and dispose of spillage as indicated in Section 13.

6.4 Reference to other sections For personal protection, see Section 8. For waste disposal, see Section 13.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures	Use appropriate personal protective equipment. Do not ingest. Avoid contact with eyes, skin and clothing. Keep in the original container or an approved alternative made from a comparable material, keep tightly closed when not in use. Do not re-use container.
Measures to prevent fire	Keep away from open flames, hot surfaces and sources of ignition.
To protect the environment	Prevent discharge in to water courses.
Hygiene measures	Handle in accordance with good industrial hygiene and safety procedures. Wash hands with soap and water before eating, drinking or smoking, and again when leaving work.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures	Ensure storage is in accordance with all appliable local, regional and national regulations. Storage construction should be of non-combustible material.
Packaging materials	Store in original container.
Requirements for storage	Keep container tightly closed and sealed until ready for use. Store in a cool, well-ventilated area away from food and drink. Containers that have been opened must be resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Keep away from direct sunlight.

7.3 Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/Personal protection

8.1 Control parameters Occupational exposure limits

Humic Acid, Potassium Salt (CAS: 271-030-1)

DNEL	General population - Oral; Long term systemic effects: 0.21 mg/kg/day.
PNEC	- Fresh water; 0.077 mg/l. - STP; 10 mg/l.

8.2 Exposure Controls

Protective equipment



If insufficient ventilation, wear respiratory protection. Protective goggles. Face-shield or visor should be worn. Protective (heat resistant) gloves should be worn.

Appropriate engineering controls	Handling should only take place in adequately ventilated areas. Wash hands thoroughly after handling. Do not eat, drink or smoke when using product. Keep away from foodstuffs, beverages and feed. Wear appropriate clothing to prevent repeated or prolonged skin contact. Immediately remove all contaminated clothing.
Environmental exposure controls	Do not empty into drains, sewers, waterways or ground water systems.

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SECTION 9: Physical & Chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Liquid
Odour	No data available
Odour threshold	No data available
pH	No data available
Melting Point/Freezing Point	No data available
Initial Boiling Point & Range	No data available
Flash Point	No data available
Evaporation Rate	No data available
Flammability (solid,gas)	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Solubility (ies)	No data available
Partition coefficient	No data available
Auto-ignition temperature	No data available
Decomposition Temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidising properties	Does not meet the criteria for classification as oxidising

SECTION 10: Stability & Reactivity

Reactivity	No test data specifically related to reactivity available for this product or its ingredients.
Chemical stability	Stable under recommended storage and handling conditions (see Section 7).
Possibility of hazardous reactions	No potentially hazardous reactions known.
Conditions to avoid	Keep away from heat sources.
Incompatible materials	None known.
Hazardous decomposition products	In combustion can emit carbon oxides, nitrogen oxides, aerosols or carbon black.

SECTION 11: Toxicological Information

11.1 Information on toxicological effects

Acute toxicity	No specific test data are available.
Irritation	Not classified. Irritation should not occur when used as recommended.
Corrosivity	Not classified.
Sensitisation	No specific test data are available. Sensitisation should not occur when used as recommended.
Repeated Dose Toxicity	No specific test data are available.
Carcinogenicity	No specific test data are available. There is no evidence that this product can cause cancer.
Germ-cell Mutagenicity	There is no evidence that this product has mutagenic properties.
Reproductive Toxicity	Does not contain any substances known to be toxic to reproduction.
General Information	This product is considered to be a low hazard under normal conditions of use .

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SECTION 12: Ecological information

12.1 Toxicity No data available. This product is not expected to be toxic to aquatic organisms.

12.2 Persistence and degradability
No data available.

12.3 Bioaccumulative potential No data available.

12.4 Mobility in soil No data available.

12.5 Results of PBT and vPvB assessment
This product does not contain any substances classified as PBT or vPvB.

12.6 Other Adverse effects Not relevant.

SECTION 13: Disposal considerations

13.1 Waste treatment methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Packaging should be disposed by the landfill or incineration as appropriate, in accordance with the relevant regulations. Do not remove the label from the packaging unless the packaging has been thoroughly cleaned. This product may be hazardous to the aquatic environment. Keep out of the sewers and waterways. Place in an appropriate container and dispose of in a safe way

SECTION 14: Transport information

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1 UN number Not applicable.

14.2 UN proper shipping name Not applicable.

14.3 Transport hazard class(es) No transport sign warning required.

14.4 Packing group Not applicable .

14.5 Environmental hazards No.

14.6 Special precautions for user Not applicable.

14.7 Transport in bulk to Annex II of MARPOL and the IBC Code
Not applicable.

SECTION 15: Regulatory Information

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

EU legislation Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). Regulation (EC) No 1907/2006 of the European Parliament and of the Council 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

15.2 Chemical safety assessment No chemical safety assessment has been carried out.

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SECTION 16: Other information

Revision comments NOTE:	Lines within the margin indicate significant changes from the previous revision.
Revision date:	26/04/2016
Revision:	1
Supersedes date	

Disclaimer

The information in the safety document applies 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 knowledge of Angus Horticulture Ltd, 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.