

MATERIAL SAFETY DATA SHEET
Angus Liquid Seaweed



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

1.1 Product identifier

Product name Angus Liquid Seaweed

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

Identified uses Plant and Soil Conditioner

1.3 Details of the supplier of the safety data sheet

Supplier Angus Horticulture
Polmood, Guthrie
Forfar, Angus, DD8 2TW
sales@angus-horticulture.co.uk

1.4 Emergency telephone number

Emergency telephone number +44 (0) 1241 829049

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Hazard Non-hazardous. This product does not require special labelling.
Safety Precautions Wear suitable protective eye protection and clothing due to staining.

SECTION 3: Composition/information on ingredients

Ascophyllum nodosum
CAS Number: 84775-78-0
Cons: (weight) 100%
Classification: IK

LEGEND: T+ = Very Toxic, T = Toxic, C = Corrosive, Xn = Harmful, Ix = Irritant, IK = No Classification Required, E = Explosive, O = Oxidising, F+ = Extremely flammable, F = Very Flammable, Fo = Flammable, N = Dangerous to Environment, Mu = Genotoxic, Sens = Sensitising, Carc = Carcinogen, Repr = Causes Birth Defects.

Angus Liquid Seaweed is a natural plant biostimulant. This green concentrated liquid is manufactured from fresh hand harvested Ascophyllum nodosum using an exclusive cold proprietary process to release bioactive molecules without using chemicals or heat. Angus Liquid Seaweed contains the main active compounds for plant growth stimulation but the product also contains all the other beneficial organic and mineral components of brown seaweed, beneficial to plants.

Directions for use Dilute in cold water, refer to label for recommended use and application rates.

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SECTION 4: First Aid measures

4.1 Description of first aid measures

General information	Non-hazardous material, if irritation or discomfort occurs seek medical help.
Eye contact	Non-irritating to ocular tissue. In case of exposure, flust eyes with plenty of water. Seek medical attention if irritation occurs.
Skin contact	Non-irritating to skin. Wash with mild soap and water. Seek medical attention if discomfort occurs.
Inhalation	Non-toxic. Do not intentionally breathe vapours.
Ingestion	Non-toxic if ingested. Do not induce vomiting and drink water or milk. Seek medical attention if discomfort occurs.

SECTION 5: Firefighting measures

Extinguishing Equipment	Use extinguishing media, appropriate for surrounding fire.
Fire & Explosion Hazards	Non-flammable. Non-explosive.
Possible Special Hazards	This product is non-combustible.
Firefighter precautions	Wear full protective equipment and a self- contained breathing apparatus.

SECTION 6: Accidental release measures

Damage Limitation & Clean Up	Spills may be easily cleaned up by removing as much liquid material as possible and washing remaining spill with copious amounts of water. Avoid loose product on floor in damp areas since product may be become slippery with the addition of clean up water.
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SECTION 7: Handling and storage

Handling	No special requirements.
Storage Recommendations	Store in a cool place. Store between 5°C - 40°C for optimum results.

SECTION 8: Exposure controls/Personal protection

8.1 Control parameters Occupational exposure limits

Exposure Control	No specific requirements.
Respiration Protection	No specific requirements.
Eye Protection	No specific requirements.
Hand Protection	No specific requirements

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SECTION 9: Physical and Chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Liquid
Colour	Pale Green
Odour	Seaweed aroma
Solubility	100% water soluble
Melting Point/Range	n/a
Explosive Limits (LEL/UEL)	n/a
Vapour pressure	n/a
pH	4.4 - 5.1
Flash Point	n/a
Specific Gravity	1.09
Ignition temp	n/a
Air Reative	n/a
Percent Volatile	n/a
Bulk Density	n/a
Vapour Pressure	n/a
Viscosity	n/a
Solubility in Water	Soluble
Saturation Conc	n/a
Rel Density Sat Air (Air = 1)	not determined
Boiling Point	102°
Smelling Limits (Lo-High)	not determined
Rel Evap Velocity	not determined

SECTION 10: Stability & Reactivity

Stability	12 months.
Hazardous Decomposition Products	Not Available.
Hazardous Polymerisation	Does not occur.

SECTION 11: Toxicological Information

Toxicology Information	No adverse health effects are expected under normal use. Symptoms and effects that may arise if the product is mishandled and over exposure occurs are listed below.
Acute Toxicology	No acute toxicity study is provided due to the nature of the substance. This product is not deemed to pose any toxicological hazard.
Routes of Exposure	Can be an irritant for the mouth, nose, throat and digestive tract if ingested. Can be an irritant for the skin or the eyes.
Ingestion	Ingestion of significant amounts may cause nausea and discomfort.
Ocular	May be irritating to the ocular tissue of non-irritated eyes. The symptoms may include redness, itching and tearing.
Dermal	May be irritating to the skin. The symptoms include redness, itching and swelling.
Inhalation	Inhalation may cause irritation of the nose, throat and respiratory system.

SECTION 12: Ecological information

Ecotoxicity	Soil conditioner and amendment; high concentrations may cause burn of plants.
Breakdown	Biodegradable. Product present minimal environmental impact.
Persistence/Degradability	No data available.
Bio-accumulative	Product is not expected to be bio-accumulate.
Environmental	Large quantities should not be discharged into waterways, drains or sewers.

SECTION 13: Disposal considerations

13.1 Waste treatment methods	Not classified as hazardous waste. Product must be disposed of in accordance with all applicable national and local regulations. When possible, containers should be rinsed with clean water and disposed of in-line with local regulations.
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SECTION 14: Transport information

Transport Non-hazardous material according to transportation regulations. No special precautions are necessary.

SECTION 15: Regulatory Information

R-Phrases This product is not considered hazardous. The product does not require labelling. Marking according to hazardous product regulations is not required.

SECTION 16: Additional Information

The above information is based on our present knowledge and available data. The information describes the product in terms of health and safety requirements and does not constitute any guarantee for specific product features. We cannot accept liability for any loss, injury or damage which may result from its use or misuse. The safety sheet cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if additional precautions may be necessary.