

WILLIAM SINCLAIR HORTICULTURE LTD

PRODUCT DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Commercial product name:	J Arthur Bower's Ericaceous Liquid Plant Food
Description	A fast-acting liquid plant food for lime-hating plants NPK: 5-4-7 + Iron, trace elements and seaweed extract
Manufacturer	William Sinclair Horticulture Firth Road Lincoln LN6 7AH Tel: (01522) 537561 Fax: (01522) 780278

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterisation of active component: Solution of fertilisers such as urea, potassium nitrate and dipotassium orthophosphate dissolved in water

3. HAZARDS IDENTIFICATION

Product is of low toxicity. May stain clothing.

Heavy spillage may cause adverse environmental impact. See section 12.

4. FIRST AID MEASURES

Skin contact:	Wash hands after use. Wash from cuts and abrasions with soap and water
Eye contact:	Immediately irrigate with plenty of clean water
Ingestion:	Rinse mouth and drink plenty of water
Inhalation:	Move into fresh air

If symptoms persist seek medical advice.

5. FIREFIGHTING MEASURES

Suitable firefighting extinguishing media:	Water
Special exposure hazards:	Irritant fumes may be given off if exposed to intense heat
Protection against fire and explosions:	Wear a suitable respirator and protective clothing

6. ACCIDENTAL RELEASE MEASURES

Wash affected areas with water. Take care to avoid contamination of watercourses and drains.

7. HANDLING AND STORAGE

Keep away from sources of heat, fire or explosion and away from all combustible materials and chemical substances. All materials should be handled using good working practices. Do not permit smoking or the use of naked lights in the storage area. Store in original packaging a cool, dry place away from children and pets.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment: Not necessary but note that product may stain clothing.
Hand and Eye protection: Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Reddish-brown aqueous solution
Odour: Faint
Solubility in water: Soluble

10. STABILITY AND REACTIVITY

Stable under normal storage and handling conditions. Liberates ammonia when in contact with alkalis e.g. Caustic Soda.

The solution does not support combustion and may act as a fire retardant. When strongly heated water evaporates and ammonia is given off.

Do not apply heat to equipment that may have contained the fertiliser without first washing thoroughly to remove all fertiliser.

11. TOXICOLOGICAL INFORMATION

This product is regarded as of low toxicity

12. ECOLOGICAL INFORMATION

12.1 Mobility

Soluble in water. The ammonium ion is adsorbed by soil.

12.2 Persistence/Degradability

The nitrate ion is mobile; the ammonium ion is adsorbed by soil particles. Phosphates, whether water or citrate soluble, are translocated in the soil over very short distances, and are then immobilised. The dissolved potassium ion in the soil solution is adsorbed by clay minerals; where these are absent in light soils part of the potassium may be leached.

12.3 Bio-accumulation

The product does not show any bio-accumulation phenomena

12.4 Eco-toxicity

Low toxicity to aquatic life

13. DISPOSAL CONSIDERATIONS

Do not contaminate waterways – dispose of safely in accordance with current local and national regulations..

14. TRANSPORT INFORMATION

Classified as non-hazardous

15. REGULATORY INFORMATION

15.1 EC Directives

76/116/EEC (Relating to fertilisers)

15.2 National Regulations

The Fertilisers Regulations 1991 and subsequent amendments

16. OTHER INFORMATION

This safety data sheet provides health and safety information. The product is to be used in a way consistent with best horticultural practice. Individuals handling this product should be informed under COSHH of the recommended safety precautions and should have access to this information. The product information in this data sheet is to the best of our knowledge correct at the date of publication. William Sinclair Horticulture disclaims any liability for any loss or damage resulting from reliance on this information.

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