



MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Commercial product name: **J Arthur Bower's Fish, Blood & Bone Organic Based Multi-Purpose Plant Food**
Description Powdered plant food to provide a balance of nutrients to promote strong growth
NPK: 5-5-6.5
Manufacturer William Sinclair Horticulture
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2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical composition of active ingredients: Fish meal, bone meal, dried blood, rock phosphate, ammonium sulphate, potassium chloride

3. HAZARDS IDENTIFICATION

3.1 Human Health

Dust is the main hazard to human health. Do not use in windy conditions.
Large bags should be lifted with care.
Molten material will cause burns and inhalation of decomposition gases (e.g. in a fire) may cause serious delayed lung effects

3.2 Environment

As this fertiliser contains phosphate, 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. Do not induce vomiting.
Inhalation: Move into fresh air

If symptoms persist seek medical advice.

5. FIREFIGHTING MEASURES

When the fertiliser **is not** directly involved in the fire use the best means available to control the fire.

When the fertiliser **is** involved:-

1. Avoid breathing the fumes. Wherever possible wear an approved breathing mask when fighting a fire or when fumes are being emitted.
2. Call the fire brigade
3. Use plenty of water
4. Open doors and windows to give maximum ventilation
5. Do not allow molten product to run into drains.

6. ACCIDENTAL RELEASE MEASURES

Sweep up into suitable container and wash affected areas with water.

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 a cool, dry place away from children and pets.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment:	Not necessary
Respiratory protection:	Masks could be worn when prolonged use of this product in confined areas is anticipated
Hand and Eye protection:	Gloves and goggles could be worn when prolonged use of this product in confined areas is anticipated.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Dark grey granular powder
Odour:	Faint
Solubility :	Partially soluble in water, partly hygroscopic in air

10. STABILITY AND REACTIVITY

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

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

Nutrients soluble in water. The ammonium ion is adsorbed by soil.

12.2 Persistence/Degradability

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

DEFRA REGULATIONS

In accordance with the “Fertiliser” (Mammalian Meat and Bone Meal) Regulations 1996”, this product is intended for use as a garden fertiliser only. Do not use or store where ruminant animals (cattle, sheep, goats or deer) have access.

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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