



MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Commercial product name: **J Arthur Bower's Epsom Salts**
Description: Granular plant food to correct magnesium deficiency in soils and crops

Manufacturer: William Sinclair Horticulture
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Lincoln LN6 7AH
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2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterisation of active component: Magnesium sulphate
10% Magnesium

3. HAZARDS IDENTIFICATION

3.1 Human Health

The material does not present any significant risk of injury to man. The material has been used for many years as a laxative. Consequently it is advisable to keep ingestion to a minimum.

Dust is the main hazard

4. FIRST AID MEASURES

Skin contact: Wash hands after use. Wash from cuts and abrasions with soap and water – may cause irritation to broken skin.
Eye contact: *R36 – Irritating to eyes.* Immediately irrigate with plenty of clean water or eyewash solution for at least 10 minutes
Ingestion: May be harmful if ingested in quantity causing diarrhoea, thirst and low blood pressure. Rinse mouth with water and then drink plenty of water.
Inhalation: *R37 Irritating to respiratory system.* Move into fresh air. Keep warm and at rest.

If symptoms persist seek medical advice.

5. FIREFIGHTING MEASURES

The material is non-combustible.

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. 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.

When heated to decomposition material emits highly toxic fumes

6. ACCIDENTAL RELEASE MEASURES

Sweep up into suitable labelled container. Do not allow material to enter drains or water courses.

7. HANDLING AND STORAGE

Handling: Do not block stack pallets

Storage: Store in original containers, tightly closed in a secure, well-ventilated, cool, dry area. Store away from herbicides. Avoid exposure to water as material is hygroscopic and liable to cake or form a hard crust when damp.

All materials should be handled using good working practices. Further storage guidance is given in HSE Guidance (IND (G) 230L

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

S26: *In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.*

8.1 Occupational Exposure Limits

No specific official limits.

ACGIH recommended value (1995-1996) for inhalable particulate: TLV/TWA
10mg/m³

8.2 Precautionary and engineering measures

Avoid high dust concentration and provide ventilation where necessary

8.3 Personal Protection

Wear suitable gloves when handling the product over long periods. Use approved dust

Respirators if airborne concentrations are high. Wash hands after handling the product and observe good hygiene practices.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White crystalline powder
Odour:	Odourless
PH water solution 100g/l)	Usually > 4.5
Bulk density:	Normally between 900-1100kg/m ³
Solubility in water:	Readily soluble

10. STABILITY AND REACTIVITY

The material is stable under normal conditions of use

Conditions to avoid:	None
Material to avoid:	None
Hazardous decomposition products:	Fumes containing oxides of sulphur

11. TOXICOLOGICAL INFORMATION

May be harmful by inhalation, ingestion or skin absorption.

May cause irritation. Can cause nervous system and respiratory depression.

Oral man: TD Lo 428mg/kg

Cardiac – other changes; cyanosis

Intravenous woman: LD Lo 80mg/kg

12. ECOLOGICAL INFORMATION

No adverse environmental effects have been recorded. Low toxicity to aquatic life. As the material is soluble in water care should be taken to avoid contamination of water courses.

13. DISPOSAL CONSIDERATIONS

Do not contaminate waterways – dispose of safely in accordance with current local and national regulations (Environmental Protection Act 1990)

14. TRANSPORT INFORMATION

UN Classification. Classified as non-hazardous

15. REGULATORY INFORMATION

Uses and Restrictions: Horticultural Use

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.