

RIGBY TAYLOR LTD

MICROFINE 16-0-16

Section 1. Identification of the substance/preparation and of the company/undertaking

1.1 Product Identifier

Product information
Product name: MICROFINE 16-0-16+2%Fe
Product Code : 0106536/020
Marketing Company Rigby Taylor Ltd
Rigby Taylor House
Crown Lane
Horwich
Bolton
BL6 5HP
Telephone : 01204 677777
Email : info@rigbytaylor.com

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

Use of substance / mixture: As a Fertilizer as per REACH use descriptors SU21, PC12, ERC 8e

1.3 Details of the supplier of the safety data sheet

Company Name: Rigby Taylor Ltd
Rigby Taylor House
Crown Lane
Horwich
Bolton
BL6 5HP
Telephone: 01204 677777
Email: info@rigbytaylor.com

1.4 Emergency telephone number

Emergency Telephone :01469 563980
Out of office hours :07879 498650

Section 2. Hazards Identification

2.1 Classification of the substance or mixture

This fertilizer preparation is not classified as a dangerous material according to EC directive 67/548/EEC or 1999/45/EC

2.2 Physicochemical hazards

This fertilizer is not itself hazardous.

2.3 Human Health

Product of a low toxicity but prolonged skin or eye contact may cause some irritation.

Ingestion: Small quantities are unlikely to cause toxic effects. Large quantities may give rise to gastro-intestinal disorders.
Inhalation: Low toxicity dust but high concentration of air-borne material may cause irritation of the nose and upper respiratory tract with symptoms such as a sore throat and coughing.

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Inhalation: (cont.)	Generally regarded as a nuisance dust with no specific official Occupational Exposure Limit (OEL). Recommend a total inhalable dust standard for nuisance dust of 10mg/m ³ as an 8 hour Time Weighted Average. See HSE Guideline Notes EH40/2005 and HSG 173.
Molten material:	Will cause burns
Fire and thermal decomposition products:	May emit toxic fumes of Ammonia and oxides of sulphur under intense heat.

2.4 Environment

As this fertilizer contains phosphate, heavy spillage may cause adverse environmental impact such as eutrophication in confined surface waters. See Section 12.

2.5 Other Hazards

With extreme heating it may melt and further heating can cause decomposition, releasing toxic fumes of Ammonia and oxides of sulphur.

Section 3. Composition / Information on Ingredients

This product may contain some or all of the following ingredients. Ammonium sulphate, urea, mono and di-ammonium phosphate, normal (single) superphosphate, triple superphosphate, ferrous sulphate, potassium chloride (muriate of potash), potassium sulphate, lignite, organic base, calcium sulphate, and coating materials, such as oil, amine, clay or talc, and secondary nutrients.

Section 4. First Aid Measures

4.1 Product

Skin Contact:	Wash the affected area with soap and water.
Eye Contact:	Irrigate eyes with copious amounts of eyewash solution or water for at least 10 minutes. Obtain medical advice if symptoms persist.
Ingestion:	Do Not induce vomiting. Give milk or water to drink. Obtain medical attention if more than small quantities have been swallowed.
Inhalation:	Remove from source of exposure to dust. Keep warm and at rest. Obtain medical advice if symptoms persist..

4.2 Fire and Thermal Decomposition Products

Skin Contact:	Wash areas in contact with molten material. Wash copiously with cold water. Seek medical attention.
Inhalation:	Remove from source of exposure to fumes. Keep warm and at rest.

Section 5. Fire-Fighting Measures

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

When the fertilizer is involved:

- Evacuate the area.
- Avoid breathing the fumes. Wear an approved self-contained breathing apparatus when fighting a fire or when fumes are emitted.
- Call the fire brigade.
- Fight the fire from upwind and from outside the buildings , if possible.

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- Open doors and windows to give maximum ventilation.
- Use plenty of water.
- Where combustible material is the source of the fire, extinguish this source as a matter of priority.
- Do not allow molten fertilizer to run into drains.
- If fire run-off water enters any drain or water course, inform the appropriate authorities immediately.

Section 6. Accidental Release Measures

6.1 Personal Precautions

Do not smoke. Avoid dust inhalation. Avoid contact with decomposition products. See also section 8.

6.2 Environmental protection

Clean up spillage promptly and place in a clean appropriately labelled container. Do not allow to mix with combustible or organic substances.
Inform the appropriate water authority in the event of accidental contamination.

6.3 Methods for cleaning up

Wash contaminated area with large quantities of water.

6.4 Disposal

See sections 13.

Section 7. Handling and Storage

7.1 Handling

Avoid prolonged contact with skin.
Avoid producing and inhaling dust. See also section 8.
Avoid contamination by materials such as diesel oil, grease and other combustible and incompatible materials.
Avoid unnecessary exposure to the atmosphere to prevent moisture pick-up.
Avoid application of heat.

7.2 Storage

The basic requirements are the avoidance of involvement in a fire or contamination.
Locate away from sources of heat, fire or explosions.
Keep away from combustible materials and chemical substances taking particular care on farms to ensure that it is not stored near straw, grain, diesel, etc.
Ensure high standards of house-keeping in the storage areas.
Do Not permit smoking or the use of naked lights in the storage area.
Ensure that any contaminated product or spillage is segregated from normal product and disposed of in conformity with section 13.
Buildings used for storage should be dry and well ventilated; stacks therein should be at least 1 metre from walls, eaves and beams.

7.3 Packaging Materials

Polyethylene (PE), Polypropylene (PP) and PTFE.

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Section 8. Exposure Control/Personal Protection

8.1 Workplace Exposure Limits (WEL)

EH40/2005 Workplace Exposure Limits (published by HSE) specify for dust: TWA 10mg/m³ (inhalable)
TWA 4mg/m³ (respirable)

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 suitable dust respirator if dust concentration is high.
After handling product, wash hands and observe good hygiene practice.

Section 9. Physical and Chemical Properties

Appearance:	White grey or brown granules unless deliberately coloured during manufacture.
Odour:	Odourless
pH water solution:	Usually >4.5-6.0 (100g/l)
Bulk Density:	Normally between 900-1100 kg/m ³
Solubility in water:	Soluble in water, extent depends on composition. Most formulations are hygroscopic.

Section 10. Stability and Reactivity

10.1 Stability

Stable under normal conditions of storage, handling and use.

10.2 Conditions to Avoid

High temperature, contamination by incompatible/combustible materials. Application of heat and confinement e.g. welding or hot work on equipment or plant which may have contained fertilizer without first washing thoroughly to remove all fertilizer.

10.3 Materials to Avoid

Combustible and incompatible materials.
Strong oxidising agents alkalis and acids.

10.4 Hazardous Decomposition Products

Could liberate Ammonia and oxides of sulphur

Section 11. Toxicological Information

Products can be expected to be of a low toxicity but prolonged skin or eye contact may cause some irritation.

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11.1 Acute Toxicity

Product toxicity will depend on the composition. Include as appropriate.

Ammonium Sulphate:	LD50 (oral, rat) > 2000mg/kg
Urea:	LD50 (oral, rat) > 14300mg/kg
Methylene Urea:	LD50 (oral, rat) > 10000mg/kg
Monoammonium Phosphate:	LD50 (oral, rat) >200mg/kg
Diammonium Phosphate:	LD50 (oral, rat) > 2000mg/kg
Potassium Chloride or Sulphate:	LD50 (oral, rat) >2000mg/kg
Ferrous Sulphate :	LD50 (oral, rat) > 1480mg/kg
Single/Triple Super Phosphate:	LD50 (oral, rat) > 2000mg/kg
Iron Pyrites	No Data
Iron Oxide	No Data

11.2 Contact

Prolonged contact may cause irritation of the skin and mucous tissue.

11.3 Inhalation

Prolonged exposure to dust may cause irritation.

11.4 Ingestion

Small quantities unlikely to cause toxic effect. Large quantities may give rise to gastro-intestinal disorders.

11.5 Sensitisation

None reported.

11.6 Chronic or Long Term Effects:

None reported

Section 12. Ecological Information

12.1 Ecotoxicity

Low toxicity to aquatic life

12.2 Mobility

Fertilizer partially soluble in water.

12.3 Persistence / Degradability

The ammonium ion is adsorbed by soil particles. Phosphate, 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.

12.4 Bio-accumulation

The product does not show any bio-accumulation phenomena.

12.5 Other Data

Keep away from water courses, report any accidental contamination of water courses to the authorities.

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Section 13. Disposal Considerations

Depending on the degree and nature of contamination/physical deterioration and quantity of material, dispose of by use on sports area as a fertilizer on sports area, by spreading thinly on open ground or alternatively to an authorised waste facility. Take care to avoid the contamination of water courses and drains. Measurers should be taken to completely empty the bag of its contents, ensuring that residues of fertilizers do not contaminate the packaging during disposal (incineration, recycling, land filling etc.)

Section 14. Transport Information

14.1 UN Classification

Not classified i.e. considered non-hazardous material according to the UN Orange Book and international transport codes e.g. RID (rail), ADR (road) and IMDG (sea).
Do Not transport with combustible materials, see 10.3.
Ensure that the transport is clean before loading the product.

Section 15. Regulation Information

15.1 EC Regulations & Directives

Regulation 2003/2003/EC relating to fertilizers, OJ304/1
20.11.2003.

15.2 National Regulations

The fertilizers Regulations 1991, SI No 2197 (as amended in 1995 and 1998).
The EC fertilizers (England and Wales) Regulations 2006. SI No. 2486.

Section 16 Other Information

This safety data sheet provides health and safety information. The product is to be used in applications consistent with best 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 Rigby Taylor's knowledge correct as at the date of publication.

The Manufacturer or Supplier does not accept liability for any loss or damage (other than arising from death or personal injury caused by negligence if proved) resulting from reliance on this information. Further information on individual products covered by this safety data sheet may be obtained from the Supplier or the Company whose name, address and telephone number will be found on the fertilizer container.

This safety data sheet provides health and safety information.