

RIGBY TAYLOR LTD

MICROLITE 6-0-24+2%fe

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

Product information

Product name : MICROLITE 6-0-24+2%fe
Product Code : 0106406/020
Product Use : As a fertilizer
Marketing Company Rigby Taylor Ltd
Rigby Taylor House
Crown Lane
Horwich
Bolton
BL6 5HP
Telephone : 01204 677777
Email : info@rigbytaylor.com

Section 2. Hazards Identification

Section 2.1 Regulatory Classification

These fertiliser preparations are not classified as dangerous materials according to EC Directive 67/548/EEC or 1999/45/EC.

2.2 Physicochemical hazards

These fertilisers are not themselves hazardous.

2.3 Human Health

Products are 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 sore throat and coughing. Generally regarded as a nuisance dust with no specific official Occupational Exposure Limit (OEL). Recommend a total inhalable dust standard for nuisance dust of 10 mg/m³ as an 8 hour Time Weighted Average. See HSE Guidance 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 these fertilisers contain 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.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

These products 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.

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 advice.
Inhalation: remove from source of exposure to fumes. Keep warm and at rest.

5. FIRE-FIGHTING 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:-

- Evacuate the area.
- Avoid breathing the fumes. Wear an approved self-contained breathing apparatus when fighting a fire or when fumes are being emitted.
- Call the fire brigade.
- Fight the fire from upwind and from outside the buildings, if possible.
- 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 fertiliser to run into drains.
- If fire run-off water enters any drain or water course, inform the appropriate water authorities immediately.

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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 watercourse contamination.

6.3 Methods for cleaning up

Wash contaminated area with large quantities of water.

6.4 Disposal

See sections 13.

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 explosion.
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 standard 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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8. EXPOSURE CONTROL/PERSONAL PROTECTION

8.1 Workplace Exposure Limits (WEL)

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

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

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 fertiliser without first washing thoroughly to remove all fertiliser.

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

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Section 11: Toxicological information

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

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) > 2000mg/kg
Diammonium phosphate:	LD50 (oral, rat) > 2000mg/kg
Potassium chloride or sulphate:	LD50 (oral, rat) > 2000mg/kg
Ferrous Sulphate Heptahydrate:	LD50 (oral, rat) > 1770mg/kg
Ferrous Sulphate Monohydrate:	LD50 (oral, rat) > 1000mg/kg
Single/triple Super Phosphate:	LD50 (oral, rat) > 2000mg/kg
Copper Sulphate Pentahydrate:	LD50 (oral, rat) 100mg/kg
Copper Oxide:	LD50 (oral, rat) 470mg/kg
Manganese Oxide:	LD50 (oral, rat) 810mg/kg
Zinc Sulphate:	LD50 (oral, rat) 574-2949mg/kg
Zinc Oxide:	LD50 (oral, rat) > 15000mg/kg
Sodium Molybdate:	LD50 (oral, rat) 4233mg/kg
Boric Acid:	LD50 (oral, rat) 2660mg/kg
Iron Pyrites:	No Data
Iron Oxide:	No Data

11.2 Contact:

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

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.

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Section 12: Ecological information

12.1. Ecotoxicity

Low toxicity to aquatic life.

12.2 Mobility

Fertiliser partially soluble in water.

12.3 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.

12.4 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.

Section 13: Disposal considerations

Depending on the degree and nature of contamination/physical deterioration and quantity of the material, dispose of by use on farm as a fertiliser on farm, by spreading thinly on open ground or alternatively to an authorised waste facility. Take care to avoid the contamination of watercourses and drains.
Measures should be taken to completely empty the bag of its contents, ensuring that residues of fertiliser 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.

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Section 15: Regulatory information

15.1 EC Regulations & Directives

Regulation 2003/2003/EC relating to fertilisers, OJ 304/1 20.11.2003.

15.2 National Regulations

The Fertilisers 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

Sources of Data and References

Guidance for the Storage, Handling and Transportation of Solid Mineral Fertilizers (EFMA), 2007.

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 TAYLORS knowledge correct as at the date of publication.

The Manufacturer or Supplier does not accept liability for any loss or damage (other than that 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 fertiliser container

The safety data sheet provides health and safety information