



# Material Safety Data Sheet

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name:** YATES NUTRICOTE MICROFINE WITH TE

**Supplier:** Yates, a Division of Orica Australia Pty Ltd

**ABN:** 004 117 828

**Street Address:** 1 Gow Street,  
Padstow, NSW 2211  
Australia

**Telephone Number:** +61 2 9781 8800

**Facsimile:** +61 2 9794 9700

**Emergency Telephone:** 1 800 033 111 (ALL HOURS)

## 2. HAZARDS IDENTIFICATION

Based on available information, not classified as hazardous according to criteria of ASCC; NON-HAZARDOUS SUBSTANCE.

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail; DANGEROUS GOODS.

**Poisons** None allocated.

**Schedule:**

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Product Description:** Controlled release fertiliser. Grey granules.

Components / CAS Number	Proportion	Risk Phrases
Ammonium nitrate 6484-52-2	<45%	-
Potassium nitrate 7757-79-1	<40%	-
Potassium sulfate 7778-80-5	<30%	-
Monoammonium phosphate 7722-76-1	<30%	-
Calcium hydrogen orthophosphate 7757-93-9	<10%	-
Calcium sulfate 7778-18-9	<10%	-
Trace elements -	<10%	-

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Inerts <10% -

## 4. FIRST AID MEASURES

For advice, contact a Poisons Information Centre (Phone eg. Australia 131 126; New Zealand 0 800 764766) or a doctor.

- Inhalation:** Remove victim from area of exposure - avoid becoming a casualty. Seek medical advice if effects persist.
- Skin Contact:** If skin contact occurs, remove contaminated clothing and wash skin with soap and water. If irritation occurs, seek medical advice.
- Eye Contact:** If in eyes, wash out immediately with water. In all cases of eye contamination it is a sensible precaution to seek medical advice.
- Ingestion:** Rinse mouth with water. Seek medical advice.
- Medical attention and special treatment:** Treat as for exposure to nitrates. Clinical findings: The smooth muscle relaxant effect of nitrate salts may lead to headache, dizziness and marked hypotension. Cyanosis is clinically detectable when approximately 15% of the haemoglobin has been converted to methaemoglobin (ie. ferric iron). Symptoms such as headache, dizziness, weakness and dyspnoea occur when methaemoglobin concentrations are 30% to 40%; at levels of about 60%, stupor, convulsions, coma and respiratory paralysis occur and the blood is a chocolate brown colour. At higher levels death may result. Spectrophotometric analysis can determine the presence and concentration of methaemoglobin in blood.
- Treatment:
1. Give 100% oxygen.
  2. In cases of (a) ingestion: use gastric lavage, (b) contamination of skin (unburnt or burnt): continue washing to remove salts.
  3. Observe blood pressure and treat hypotension if necessary.
  4. When methaemoglobin concentrations exceed 40% or when symptoms are present, give methylene blue 1 to 2 mg/kg body weight in a 1% solution by slow intravenous injection. If cyanosis has not resolved within one hour a second dose of 2 mg/kg body weight may be given. The total dose should not exceed 7 mg/kg body weight as unwanted effects such as dyspnoea, chest pain, vomiting, diarrhoea, mental confusion and cyanosis may occur. Without treatment methaemoglobin levels of 20-30% revert to normal within 3 days.
  5. Bed rest is required for methaemoglobin levels in excess of 40%.
  6. Continue to monitor and give oxygen for at least two hours after treatment with methylene blue.
  7. Consider transfer to centre where haemoperfusion can be performed to remove the nitrates from the blood if the condition of the patient is unstable.
  8. Following inhalation of oxides of nitrogen the patient should be observed in hospital for 24 hours for delayed onset of pulmonary oedema. Further observation for 2-3 weeks may be required to detect the onset of the inflammatory changes of bronchiolitis fibrosa obliterans.

## 5. FIRE FIGHTING MEASURES

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**Hazards from combustion products:** Non-combustible material.

**Precautions for fire fighters and special protective equipment:** Decomposes on heating emitting toxic fumes. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to products of decomposition.

**Suitable Extinguishing Media:** Not combustible, however, if material is involved in a fire use: Media applicable to surrounding fire.

**Hazchem Code:** 1[Y]

## 6. ACCIDENTAL RELEASE MEASURES

**Methods and materials for containment and clean up:** Contain - prevent run off into drains and waterways. Collect and seal in properly labelled containers.

## 7. HANDLING AND STORAGE

**Conditions for safe storage:** Store in the closed, original container in a dry, cool, well-ventilated area out of direct sunlight. Keep containers closed when not in use - check regularly for spills.

**Precautions for safe handling:** Keep out of reach of children.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Occupational Exposure Limits:**

No value assigned for this specific material by the National Occupational Health and Safety Commission.

**Engineering controls:**

Natural ventilation should be adequate under normal use conditions.

**Personal Protective Equipment:**

No special personal protective equipment required. Rubber gloves are recommended if handling often. Always wash hands before smoking, eating, drinking or using the toilet.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:** Granules  
**Colour:** Grey  
**Odour:** Odourless  
**Solubility:** Soluble in water.  
**Specific Gravity:** N App

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Vapour Pressure (20 °C): Nil  
Flash Point (°C): N App  
Solubility in water (g/L): 90%  
Melting Point/Range (°C): N Av

## 10. STABILITY AND REACTIVITY

**Chemical stability:** Stable under normal conditions of use.

## 11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

**Ingestion:** Swallowing may result in irritation of the gastrointestinal tract.

**Eye contact:** Exposure to the dust may cause discomfort due to particulate nature. May cause physical irritation to the eyes.

**Skin contact:** Repeated or prolonged skin contact may lead to irritation.

**Inhalation:** Breathing in dust may result in respiratory irritation.

**Long Term Effects:**  
No information available for the product.

**Toxicological Data:**  
No LD50 data available for the product.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity** Avoid contaminating waterways.

## 13. DISPOSAL CONSIDERATIONS

**Disposal methods:** Refer to local government authority for disposal recommendations.

## 14. TRANSPORT INFORMATION

### Road and Rail Transport

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail; DANGEROUS GOODS.

**UN No:** 2071  
**Class-primary** 9 Miscellaneous Dangerous Goods  
**Packing Group:** III

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**Proper Shipping Name:** AMMONIUM NITRATE FERTILIZERS

**Hazchem Code:** 1[Y]

## Marine Transport

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; DANGEROUS GOODS.

**UN No:** 2071  
**Class-primary:** 9 Miscellaneous Dangerous Goods  
**Packing Group:** III  
**Proper Shipping Name:** AMMONIUM NITRATE FERTILIZERS

## Air Transport

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; DANGEROUS GOODS.

**UN No:** 2071  
**Class-primary:** 9 Miscellaneous Dangerous Goods  
**Packing Group:** III  
**Proper Shipping Name:** AMMONIUM NITRATE FERTILISERS

## 15. REGULATORY INFORMATION

**Classification:** Based on available information, not classified as hazardous according to criteria of ASCC; NON-HAZARDOUS SUBSTANCE.  
**Poisons Schedule:** None allocated.

## 16. OTHER INFORMATION

**Reason(s) for Issue:**  
First Issue Primary MSDS

This material safety data sheet has been prepared by SH&E Shared Services, Orica. This MSDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since Orica Limited cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material. If clarification or further information is needed, the user should contact their Orica representative or Orica Limited at the contact details on page 1. Orica Limited's responsibility for the material as sold is subject to the terms and conditions of sale, a copy of which is available upon request.

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