

(EPG Reference: 5.1)

Date of Issue : 02/06/04

Supersedes : 19/03/04

STATEMENT OF HAZARDOUS NATURE:

Not classified as hazardous according to criteria of Worksafe Australia

COMPANY NAME AND ADDRESS:

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PRODUCT IDENTIFICATION:

Product Name : **YATES NUTRICOTE TOTAL WITH TE N18**
 Correct Shipping Name : AMMONIUM NITRATE FERTILISERS
 Other Names : No other names
 Manufacturer Product Code: 21839 25518 26108 35306 42607
 UN Number : 2067
 Dangerous Goods Class : 5.1
 Subsidiary Risk : NONE
 HazChem Code : 1[Y]
 Packaging Group : III
 Poisons Schedule No. : NONE
 Use : Controlled release fertiliser

PHYSICAL PROPERTIES / DESCRIPTION:

Form : Granule
 Colour : Grey
 Odour : Odourless
 Melting Point : Not determined
 Boiling Point : Not determined
 Vapour Press kPa @25C : Nil
 Specific Gravity : Not applicable
 Flashpoint (C) : Non flammable
 Flammability Limits% : Non flammable
 Solubility in Water : 90% water soluble

INGREDIENTS: CHEMICAL ENTITY	CAS No.	PROPORTION
Ammonium nitrate	6484-52-2	< 40%
Mono-ammonium phosphate	7722-76-6	< 30%
Potassium nitrate	7757-79-1	< 40%
Calcium phosphate	7758-23-8	< 10%
Calcium sulphate	7778-18-9	< 10%
Trace elements		< 10%
Inert coating		< 10%

HEALTH HAZARD INFORMATION:

HEALTH EFFECTS:

INFORMATION ON TOXICITY:

No published toxicity data. Considered to be of low toxicity.

ACUTE EFFECTS:

SWALLOWED : May cause gastric irritation.
EYE : May be an irritant.
SKIN : Prolonged exposure can cause irritation.
INHALED : Unlikely to occur. Non hazardous.

CHRONIC EFFECTS : None known.

FIRST AID:

SWALLOWED : Rinse mouth out with water. If symptoms occur, seek medical advice.
EYE : Wash with plenty of water for at least 15 minutes. If irritation persists, seek medical advice.
SKIN : Wash with soap and water.
INHALED : Remove to fresh air.
AID FACILITIES : Poisons Information Centres in each State capital city may provide additional assistance.

ADVICE TO DOCTOR : Clinical findings : the smooth muscle relaxant effect of ammonium nitrate 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 to 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 2mg per kg body weight may be given. The total dose should not exceed 7mg per kg body weight as unwanted side 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 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.

PRECAUTIONS FOR USE:

- EXPOSURE STANDARDS** : No exposure standard has been assigned to this product.
- ENGINEERING CONTROLS** : Natural ventilation should be adequate under normal use conditions.
Avoid generating and inhaling dusts. Keep containers closed when not in use.
- PERSONAL PROTECTION** : We suggest wearing gloves if handling excessively.
- FLAMMABILITY** : Non combustible, but is a strong oxidising agent.
Supports combustion. Increases intensity of a fire.

SAFE HANDLING INFORMATION:

- STORAGE AND TRANSPORT** : Store in the closed, original container in a cool, dry place out of the reach of children and away from sources of heat or ignition. Store away from combustible materials, reducing agents, metal powders, herbicides and fungicides. If using wooden pallets, these must be hardwood and periodically washed down with copious quantities of water to remove all traces of ammonium nitrate. Keep containers closed to prevent absorption of moisture from the atmosphere. Check regularly for spills. This product when stored in confined unventilated space / hold can give off an ammonia or other odour and lead to depletion of oxygen within this space and other confined spaces. It is therefore essential that ventilation is carried out prior to entry to all ship holds.
Not to be loaded with explosives (class 1), flammable gases (class 2.1), toxic gases (class 2.3), flammable liquids (class 3), flammable solids (class 4.1), spontaneously combustible substances (class 4.2), dangerous when wet substances (class 4.3), organic peroxides (class 5.2), poisonous substances (where the poisonous substances are fire risk substances) (class 6), radioactive substances (class 7), corrosives (class 8), miscellaneous dangerous goods (class 9) (where miscellaneous dangerous goods are fire risk substances), fire risk substances other than dangerous goods, however, exemptions may apply.
- SPILLS AND DISPOSAL** : Shut off all possible sources of ignition. Clear area of all unprotected personnel. Wear protective equipment to prevent skin and eye contamination and inhalation of dust. Contain - prevent contamination of drains and waterways. Sweep up, but avoid generating dust. Collect and seal in properly labelled containers for disposal or re-use. Wash down the area with excess water. Do not contaminate streams, rivers or water courses. The Australian Dangerous Goods Code for the Transport of Dangerous Goods by Road and Rail identifies this material as a pollutant to the environment. In the event of a spillage notify the local environment protection authority or emergency services.
- FIRE/EXPLOSION HAZARD** : Strong oxidising agent. On its own is not combustible, however will support combustion.
Decomposes on heating emitting irritating white

fumes of nitrous oxide and ammonium nitrate mist. Brown fumes indicate the presence of toxic oxides of nitrogen. On detection of fire the compartment(s) should be opened up to provide maximum ventilation. Fire fighters to wear self-contained breathing apparatus if risk of exposure to products of combustion / decomposition. Fires should be fought from a protected location. Keep containers and adjacent areas cool with water spray. If safe to do so, remove containers from path of fire. A major fire may involve the risk of explosion in the event of contamination or strong confinement. An adjacent detonation may also involve the risk of explosion.

EXTINGUISHING MEDIA : Water spray (large quantities).

OTHER INFORMATION: Do not contaminate ponds, waterways, streams or ditches with product or packaging.

CONTACT POINTS : 1. TECHNICAL MANAGER (02) 9763 9200
2. EMERGENCY ONLY (24 hrs) 1800 033 111

DISCLAIMER

This Material Safety Data Sheet has been developed according to Worksafe Australia / NOHSC Guidelines.

All information is as accurate and up-to-date as possible. Since Arthur Yates & Co Limited cannot anticipate or control the conditions under which this information may be used, each user should review the information in the specific context of the intended application. Arthur Yates & Co Limited will not be responsible for damages of any nature resulting from use of or reliance upon the information.

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