

**MATERIAL SAFETY DATA SHEET****STATEMENT OF HAZARDOUS NATURE**

Not classified as hazardous according to criteria of Worksafe Australia.

Not classified as a Dangerous Good under the ADG Code.

**IDENTIFICATION and USE**

<b>Product Name:</b>	CAN 668	<b>U.N. Number:</b>	Not relevant
<b>GF Product Code No:</b>	12668	<b>Dangerous Goods Class/ and Subsidiary Risk:</b>	Not relevant
		<b>Packaging Group:</b>	Not relevant
		<b>Hazchem Code:</b>	Not relevant
		<b>Poisons Schedule No:</b>	Not relevant

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**Use:** Fertiliser

**Physical Description/Properties**

<b>Appearance:</b>	Granules or crystalline solids of various colours.	Contains nitrates
<b>Boiling/Melting Point:</b>	Not relevant	<b>Vapour Pressure:</b> Not relevant
<b>Specific Gravity:</b>	Not relevant	<b>Flashpoint:</b> Not relevant
<b>Flammability Limits:</b>	Not relevant	<b>Solubility in Water:</b> Partial to full

**Ingredients**

<b>Chemical Entity</b>	<b>CAS No.</b>	<b>Proportion</b>
Calcium Ammonium Nitrate		
Ammonium Nitrate	[6484-52-2]	50 – 60%
Calcium Carbonate	[1317-65-3]	
Diammonium Phosphate	[7783-28-0]	<10%
Sulphate of Ammonia	[7783-20-2]	10 - 20%
Potassium Chloride	[7747-40-7]	20 – 30%

**HEALTH HAZARD INFORMATION**

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**Swallowed:** Swallowing large quantities may cause nausea, headaches, irregular heart beat, cramps and breathing difficulties. Cyanosis may occur [refer "Handbook of Poisoning" (Ed Driesbach R H), p384, (Lange Medical Publications: California 12<sup>th</sup> Edition, 1987)]

**Eye:** May be irritating to eyes

**Skin:** May be irritating to skin. Frequent or prolonged contact may cause Dermatitis. No effect should occur if promptly washed off.

**Inhaled:** Inhalation of airborne dust may cause irritation to nose and throat.

**First Aid**

**Swallowed:** Rinse mouth and give plenty of water to drink. If vomiting occurs give further water. Seek medical advice.

**Eyes:** Hold eyes open, flood with water for 15 minutes. Seek medical advice.

**Skin:** A small amount of skin contact is not normally harmful. Contaminated clothing may be re-

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**Inhaled:** used following laundering.  
Recovery is rapid after removal from exposure. If symptoms persist seek medical advice.

**Notes to physician:** For Nitrates:

**Clinical Findings:** The smooth muscle relaxant effect may lead to headache, dizziness and marked hypertension. 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 dyspnea 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) swallowing: 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 2mg/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/kg body weight as unwanted effects such as dyspnea, 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 nitrates from blood if condition of patient unstable.
8. Following inhalation of oxides of nitrogen the patient should be observed for 24 hours for delayed onset of pulmonary oedema.

### PRECAUTIONS FOR USE

**Exposure Limits:** No exposure limit has been assigned to this product by Worksafe Australia.

**Ventilation:** Maintain adequate ventilation.

**Personal Protection:** When using, do not eat, drink or smoke. Wash hands thoroughly before smoking, eating or using toilet facilities. Wear overalls, boots, gloves and safety goggles. Avoid inhaling dust. Where high concentrations of airborne dust are present, a dust respirator conforming to AS1716 should be worn.

**Flammability:** Not combustible. Will decompose and emit toxic fumes on heating. SCBA should be used in a fire situation.

### SAFE HANDLING INFORMATION

**Storage and Transport:** **Not** classified as a Dangerous Good under the ADG Code.  
Store in a cool dry place.  
Store apart from combustible materials and pesticides.

**Spills and Disposal:** Swept up and store in properly labelled containers for use or disposal. Wash down with water taking care not to contaminate streams, rivers or water courses. Dispose of in compliance with State Land Management Authority requirements

**Fuel/Explosion Hazard:** Not Flammable. Strong oxidising agent. Fight fire from a protected position and use water spray to reduce product temperature. Decomposition may give rise to toxic and noxious fumes including nitrogen oxide. A major fire or nearby detonation may involve explosion risk. Wear self-contained breathing apparatus (SCBA)

**Other Information:** Special precautions.  
Keep dry – material is hygroscopic and moisture ingress causes caking. Avoid

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rough handling as degradation results in dusty product.

**Note:** The information contained in this publication is by way of general comment only. Because conditions of use, suitability of product and application conditions are beyond the control of Grow Force this publication is not and does not purport to offer particular advice in respect of any product. The authors and Grow Force hereby expressly disclaim any liability to any person, property or thing in respect of any of the consequences of anything done or omitted to be done by any person in reliance, whether wholly or in part, upon the whole or any part of the contents of this publication.

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