

**Fertico NutriSmart Plus 8-9-0 + Zn, Mn, B****Section 1 - Identification of Chemical Product and Company**

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Trade Name: NutriSmart Plus 8-9-0  
Product Use: Cereal Crops and General Fertiliser  
Creation Date: February 2008

**Section 2 - Hazards Identification****Statement of Hazardous Nature**

This product is not classified as hazardous according to the criteria of ASCC.

Not a Dangerous Good according to the Australian Dangerous Goods (ADG) Code.

**Risk Phrases:** R36/37/38 May be irritating to eyes, respiratory system and skin

**Safety Phrases:** S24/S25. Avoid contact with skin and eyes.

**SUSDP Classification:** N/A

**ADG Classification:** None allocated. Not a Dangerous Good under the ADG Code.

**UN Number:** None allocated

**Emergency Overview**

**Physical Description & colour:** Grey to brown granular solid

**Odour:** Mild pungent odour.

**Major Health Hazards:** no significant risk factors have been found for this product.

**Potential Health Effects****Inhalation:**

**Short term exposure:** Available data indicates that this product is not harmful. Dust may be slightly irritating, although unlikely to cause anything more than mild transient discomfort.

**Long Term exposure:** No data for health effects associated with long term inhalation.

**Skin Contact:**

**Short term exposure:** This product may irritate skin; however it is unlikely to cause more than minor discomfort such as itchiness or slight skin reddening

**Long Term exposure:** No data for health effects associated with long term skin exposure, but may cause drying of the skin.

**Eye Contact:**

**Short term exposure:** Slightly Irritative by mechanical abrasion if exposed to dust

**Long Term or severe exposure:** No data for health effects with long term exposure.

**Ingestion:**

**Short term exposure:** May be irritating to the throat or to gastro-intestinal tract if dust generated. Can be harmful if large quantities ingested, however this is not likely in normal use

**Long Term exposure:** No data for health effects associated with long term ingestion.

**Carcinogen Status:**

**ASCC:** No significant ingredient is classified as carcinogenic by ASCC.

**NTP:** No significant ingredient is classified as carcinogenic by NTP.

**IARC:** No significant ingredient is classified as carcinogenic by IARC.

## Section 3 - Composition/Information on Ingredients

Ingredients	CAS No	Conc%	TWA (mg/m <sup>3</sup> )	STEL (mg/m <sup>3</sup> )
Mono-ammonium Phosphate	7722-76-1	40-50	not set	not set
Ammonium Sulfate	7783-20-2	10-20	not set	not set
Humates	n/a	15-25	not set	not set
Zinc Sulfate	7733-02-0	0-5	not set	not set
Manganese Sulfate	7785-87-7	0-5	not set	not set
Boric Acid	11113-50-1	0-5	not set	not set
Copper Sulfate	7758-98-7	0-5	not set	not set
Other Inert non-hazardous materials (Also contains biologically active specialised yeasts)	n/a	0-5	not set	not set

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non hazardous ingredients are also possible.

*There is a blanket limit of 10mg/m<sup>3</sup> for dusts or mists when limits have not otherwise been established. The nature of this product makes it unlikely that this level will be approached in normal use*

*The ASCC TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. The STEL (Short Term Exposure Limit) is an exposure value that may be equalled (but should not be exceeded) for no longer than 15 minutes and should not be repeated more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak" is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.*

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## Section 4 - First Aid Measures

**General Information:** You should call The Poisons Information Centre if you feel that you may have been poisoned, or irritated by this product. The number is 13 1126 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. Have this MSDS with you when you call.

**Inhalation:** First aid is not generally required. However if vapours or mists have been inhaled, and irritation has developed, remove to fresh air and observe until recovered. If irritation becomes painful or persists for more than 30 minutes, seek medical advice. If in doubt, contact a Poisons Information Centre or a doctor.

**Skin Contact:** If product gets on skin, thoroughly wash contacted areas. No further measures should normally be required unless irritation is noticed. If irritation persists, seek medical advice.

**Eye Contact:** If product comes into contact with eyes, flush with lukewarm, gently flowing water for at least 15 minutes. Seek medical attention if irritation persists.

**Ingestion:** Rinse mouth with water and give some water to drink. Do not induce vomiting unless instructed to do so by medical authority. Seek medical assistance if large quantities ingested.

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## Section 5 - Fire Fighting Measures

**Fire and Explosion Hazards:** There is no risk of an explosion from this product under normal circumstances if it is involved in a fire.

Thermal decomposition - Only small quantities of decomposition products are expected from this product at temperatures normally achieved in a fire, may be carbon dioxide & oxides of phosphorus.

**Extinguishing Media:** Not Combustible. Use extinguishing media suited to burning materials.

**Fire Fighting:** If a significant quantity of this product is involved in a fire, call the fire brigade.

**Flash point:** Does not burn.

**Upper Flammability Limit:** Does not burn.

**Lower Flammability Limit:** Does not burn.

**Autoignition temperature:** Not applicable - does not burn.

**Flammability Class:** Does not burn.

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## Section 6 - Accidental Release Measures

**Accidental release:** Minor spills do not normally need any special cleanup measures. In the event of a major spill, prevent spillage from entering drains or water courses. Wear protective clothing including impervious gloves and safety goggles. Suitable materials for protective clothing include rubber, PVC. All skin should be covered. Thoroughly launder protective clothing before storage or re-use.

Stop leak if safe to do so, and contain spill. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage, and dispose of promptly. If a significant quantity of material

enters drains, advise emergency services. This material may be suitable for approved landfill. Ensure legality of disposal by consulting regulations prior to disposal.

Refer to product label for specific instructions. Full details regarding disposal of used containers, spillage and unused material may be found on the label. If there is any conflict between this MSDS and the label, instructions on the label prevail. Ensure legality of disposal by consulting regulations prior to disposal.

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## Section 7 - Handling and Storage

**Handling:** When dusts are generated, check Section 8 of this MSDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling in order to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.

**Storage:** Store in a dry, cool, well-ventilated area – dampness may cause handling difficulty. Make sure that the product does not come into contact with substances listed under "Materials to avoid" in Section 10. Keep away from extreme heat and open flames. Make sure that the product does not come into contact with substances listed under "Incompatibilities" in Section 10. Check packaging - there may be further storage instructions on the label.

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## Section 8 - Exposure Controls and Personal Protection

The following Australian Standards will provide general advice regarding safety clothing and equipment: Respiratory equipment: AS/NZS 1715, Protective Gloves: AS 2161, Industrial Clothing: AS2919, Industrial Eye Protection: AS1336 and AS/NZS 1337, Occupational Protective Footwear: AS/NZS2210.

### ASCC Exposure limits      TWA (mg/m<sup>3</sup>)      STEL (mg/m<sup>3</sup>)      ADI      NOEL

Exposure limits have not been established by ASCC for any of the significant ingredients in this product. *There is a blanket limit of 10mg/m<sup>3</sup> for dusts or mists when limits have not otherwise been established. The nature of this product makes it unlikely that this level will be approached in normal use*

*No ADI or NOEL set for any ingredients of this product. ADI means Acceptable Daily Intake and NOEL means No-observable-effect-level.*

No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

**Ventilation:** No special ventilation requirements are normally necessary for this product. However make sure that the work environment remains clean and that dusts are minimised.

**Eye Protection:** Protective eyewear should be worn when using this product

**Skin Protection:** Impermeable protective gloves should be worn when using this product

**Protective Material Types:** We suggest that protective clothing be made from the following materials: rubber, PVC.

**Respirator:** Usually, no respirator is necessary when using this product. However, if high dust levels, consult the Australian Standard mentioned above.

Always wash hands before smoking, eating, or using the toilet. Wash contaminated clothing and other protective equipment before storing or using.

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## Section 9 - Physical and Chemical Properties:

<b>Physical Description &amp; colour:</b>	Grey to brown granular solid
<b>Odour:</b>	Mild odour.
<b>Boiling Point:</b>	N/A
<b>Freezing/Melting Point:</b>	No data, solid at normal temperatures
<b>Volatiles:</b>	N/A
<b>Bulk Density:</b>	No data
<b>Water Solubility:</b>	Moderately soluble.
<b>pH:</b>	No data.
<b>Volatility:</b>	No data.
<b>Evaporation Rate:</b>	N/A
<b>Coeff Oil/water distribution:</b>	N/A
<b>Flash Point:</b>	N/A Non-flammable
<b>Auto ignition temp:</b>	Not applicable - does not burn.

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## Section 10 - Stability and Reactivity

**Reactivity:** This product is stable under normal temperatures and pressures, when stored and handled in accordance with this MSDS

**Conditions to Avoid:** Avoid contact with foodstuffs, avoid exposure to extreme heat or flame.

**Incompatibilities:** Store apart from herbicides & fungicides and combustible materials

**Fire Decomposition:** Fire may cause the release of toxic and/or irritating fumes. May emit toxic fumes of Carbon dioxide and oxides of phosphorus

**Polymerisation:** This product is unlikely to spontaneously polymerise.

## Section 11 - Toxicological Information

No significant health hazards exist for this product.

**Skin Effects:** Mildly irritating to human skin

**Inhalation Effects:** No test data available

**Sensitisation:** No test data available

**Ingestion Effects:** No test data available

**Carcinogenicity:** No significant ingredient is classified as carcinogenic by ASCC, NTP, IARC

**Mutagenicity and Reproductive Effects:** No test data available

**Target Organs:** No test data available

## Section 12 - Ecological Information

No data available for ecological effects. Expected to be low.

## Section 13 - Disposal Considerations

**Disposal:** Disposal instructions appear on the product label and should be followed. Empty containers are usually discarded with household rubbish. This product is suitable for disposal in land fill after consultation with regulatory authorities.

## Section 14 - Transport Information

**ADG Code:** This product is not classified as a Dangerous Good. No special transport conditions are necessary unless required by other regulations.

## Section 15 - Regulatory Information

**AICS:** All of the significant ingredients in this formulation are compliant with NICNAS regulations.

## Section 16 - Other Information

This MSDS contains only safety-related information. For other data see product literature.

### Acronyms:

<b>ADG Code</b>	Australian Code for the Transport of Dangerous Goods by Road and Rail
<b>AICS</b>	Australian Inventory of Chemical Substances
<b>ASCC</b>	Office Of The Australian Safety And Compensation Council
<b>CAS number</b>	Chemical Abstracts Service Registry Number
<b>IARC</b>	International Agency for Research on Cancer
<b>NTP</b>	National Toxicology Program (USA)
<b>R-Phrase</b>	Risk Phrase
<b>SUSDP</b>	Standard for the Uniform Scheduling of Drugs & Poisons
<b>UN Number</b>	United Nations Number

*THIS MSDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS MSDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE. IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS. OUR RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST.*

Please read all labels carefully before using product.

This MSDS is prepared in accordance with the ASCC document "National Code of Practice for the Preparation of Material Safety Data Sheets" 2nd Edition [NOHSC:2011(2003)]

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## MATERIAL SAFETY DATA SHEET