

Section 1 - Identification of Chemical Product and Company

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Trade Name: **Multicote Green**
Product Use: Controlled Release Fertiliser (soil nutrient)
Revision Date: **July 2011**

Section 2 - Hazards Identification

Statement of Hazardous Nature

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO THE CRITERIA OF ASCC
NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

SUSDP Classification: None allocated.

Risk Phrases: Not Hazardous according to criteria of ASCC

Safety Phrases: Not Hazardous according to criteria of ASCC

Emergency Overview

Physical Description & colour: Yellow-brown granular solid

Odour: Slight odour

Major Health Hazards: No significant risk factors have been found for this product in normal use.

Potential Health Effects

Eye: Unlikely to be hazardous due to nature of product, Low to moderate irritant. Exposure may result in irritation, pain and redness

Inhalation: Unlikely to be hazardous due to nature of product, low dust. Over exposure may result in mucous membrane irritation of the nose and throat with coughing.

Skin: Non – low irritant. Prolonged and repeated use may result in slight irritation. Some individuals with sensitive skin may experience adverse skin reactions and would be advised to discontinue use.

Ingestion: Low toxicity. With large doses, ingestion may result in nausea, vomiting and gastrointestinal irritation.

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	TWA (mg/m3)	STEL (mg/m3)
Mono Ammonium Phosphate (MAP)	7722-76-1	not set	not set
Potassium Nitrate	7757-79-1	not set	not set
Urea	57-13-6	not set	not set
Polymer Coating	n/a	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.

The 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 should not be exceeded for more than 15 minutes and should not be repeated for 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

Section 4 - First Aid Measures

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

Inhalation: If exposed, remove victim to fresh air. Recovery is rapid after removal from exposure. Seek medical attention if irritation persists or breathing difficulties arise

Skin Contact: Remove contaminated clothing and wash thoroughly with soap and water. Seek medical attention if irritation develops. Launder clothing before reuse.

Eye Contact: Hold eye open and flush gently with copious amounts of water for 15 minutes. Seek medical attention if irritation develops.

Ingestion: If swallowed, immediately rinse mouth out with water. Give water. Contact Poisons Information Centre or doctor.

Advice to Doctor: Treat symptomatically

Section 5 - Fire Fighting Measures

Fire and Explosion Hazards: Non- flammable. No fire or explosion hazards exist.

Decomposition: May give rise to toxic and noxious fumes – oxides of nitrogen and CN gas

Extinguishing Media: Media to suit materials involved in fire.

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

Flash point: Non Flammable

Upper Flammability Limit: Not applicable

Lower Flammability Limit: Not applicable

Auto ignition temperature: Not applicable

Flammability Class: Does not burn.

Hazchem Code: None allocated

Section 6 - Accidental Release Measures

Spillage: 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. As a minimum, wear overalls, goggles and gloves. Stop leak if safe to do so, and contain spill. Sweep up and shovel or collect recovered product into labelled containers for recycling or salvage, and dispose of promptly. After spills, wash area preventing runoff from entering drains. 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. Thoroughly launder protective clothing before storage or re-use. Advise laundry of nature of contamination when sending contaminated clothing to laundry.

Section 7 - Handling and Storage

Handling: Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

Storage: Store in cool, dry, well ventilated area removed from combustible materials, herbicides, fungicides and foodstuffs. Do not allow to come into contact with water either from rain, condensation or the surface on which it is stored. Ensure containers are labelled, protected from physical damage and sealed when not in use. Keep from extreme heat and open flames and make sure that the product does not come into contact with substances listed under "Materials to avoid" in Section 10. Bagged fertilisers should be stored under cover and out of direct sunlight

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**.

Exposure Limits **TWA (mg/m³)** **STEL (mg/m³)** **ADI (mg/Kg/day)** **NOEL (mg/Kg/day)**

Exposure limits have not been set for any ingredients in product. The STEL (Short Term Exposure Limit) is an exposure value that should not be exceeded for more than 15 minutes and should not be repeated for more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The exposure value at the TWA is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. A TWA has not been established by Worksafe Australia for any of the major ingredients in this product. There is a blanket limit of 10mg/m³ 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. ADI means Acceptable Daily Intake and NOEL means No-observable-effect-level. Values taken from Australian ADI List, Dec 2003.

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: Avoid high dust concentration and provide local exhaust ventilation where necessary.

Eye Protection: Eye protection such as protective glasses or goggles is recommended when using this product.

Skin Protection: Wear gloves or gauntlets and long sleeves when using this product to protect against skin irritation

Respirator: Use P2 type canister respirator where high concentrations of airborne dust is present

Provision of eye wash facilities and safety shower recommended.

Wash hands before eating, drinking, smoking or going to toilet, launder protective clothing before re-use.

Section 9 - Physical and Chemical Properties:

Physical Description & colour:	Yellow / brown granular solid
Odour:	Little odour
Melting Point:	no data
Decomposition Temperature:	>200°C
Flash Point:	Non-flammable
Vapour Pressure:	Below 1mm Hg
Density:	0.875kg/L
Solubility:	Very slowly soluble, polymer coating insoluble
pH:	5.2-6.2 (saturated solution)

Section 10 - Stability and Reactivity

Reactivity: This product is unlikely to react or decompose under normal storage conditions.

Conditions to Avoid: Heat, flames.

Incompatibilities: Sodium Hypochlorite NaOCl

Fire Decomposition Products: May evolve toxic and noxious fumes when heated to decomposition - oxides of nitrogen and CN gas

Polymerisation: This product is unlikely to undergo polymerisation processes.

Section 11 - Toxicological Information

Health Hazard Summary: Low toxicity. This product may only present a hazard with eye contact, prolonged and repeated skin contact or with dust inhalation at high levels

Toxicity to Animals:

LD50 No data available for this product

Section 12 - Ecological Information

Environment: Avoid contamination of waterways. Fertilisers, particularly those containing nitrogen and phosphorus can stimulate weed and algal growth in static surface waters. Nitrogen fertilisers can also contain or form Nitrate which can contaminate surface and ground water. High nitrate concentrations may render the water unsuitable for human and livestock consumption.

Ecotoxicity effects: Dissolves slowly in water. Harmful to aquatic life

Persistence/degradation: Will persist in soil, but is a plant nutrient.

Section 13 - Disposal Considerations

Disposal: There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. In some areas, certain wastes must be tracked. The Hierarchy of Controls seems to be common - the user should investigate: Reduce, Reuse, and Recycle and only if all else fails should disposal be considered. Special help is available for the disposal of Agricultural Chemicals. The product label will give general advice regarding disposal of small quantities, and how to cleanse containers. However, for help with the collection of unwanted rural chemicals, contact ChemClear 1800 008 182 <http://www.chemclear.com.au/> and for help with the disposal of empty drums, contact DrumMuster <http://www.drummuster.com.au/>

Section 14 - Transport Information

ADG Code: This product is NOT classified as a Dangerous Good.

Not a Dangerous Good for transport by sea or air

Section 15 - Regulatory Information

Poison Schedule: A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP)

AICS: All of the significant ingredients in this formulation are to be found in the public AICS Database.

Section 16 - Other Information

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

Acronyms:

ADG Code	Australian Code for the Transport of Dangerous Goods by Road and Rail
AICS	Australian Inventory of Chemical Substances
ASCC	Office of the Australian Safety and Compensation Council
CAS number	Chemical Abstracts Service Registry Number
Hazchem Number	Emergency action code of numbers and letters that provide information to emergency services especially fire fighters
IARC	International Agency for Research on Cancer
NOHSC	National Occupational Health & Safety Commission
NTP	National Toxicology Program (USA)
SUSDP	Standard for the Uniform Scheduling of Drugs & Poisons
UN Number	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 accord 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