

Section 1 - Identification of Chemical Product and Company

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Trade Name: Nuturf Hy-Mag
Product Use: Soil amendment
Creation Date: March 2008

Section 2 - Hazards Identification

Statement of Hazardous Nature

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

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

Risk Phrases: Not Hazardous according to criteria of Worksafe Australia. R36/38 Irritating to eyes and skin

Safety Phrases: Not Hazardous according to criteria of Worksafe Australia. S24/25 Avoid Contact with skin and eyes, S37/39 Wear suitable gloves and eye protection.

SUSDP Classification: None allocated.

ADG Classification: None allocated. Not a Dangerous Good.

UN Number: None allocated

Emergency Overview

Physical Description & colour: White to grey powder

Odour: No distinguishing odour

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

Potential Health Effects

Inhalation:

Dust tends to dehydrate mucous membranes

Skin Contact:

Available data indicates that this product is irritating to the skin on prolonged contact.

Eye Contact:

Irritating to eyes

Ingestion:

Ingestion of very large amounts may cause diarrhoea, nausea, vomiting. However this is not likely in normal use

Carcinogen Status:

NOHSC: 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/m3)	STEL (mg/m3)
Magnesium Hydroxide	1309-42-8	0-80	not set	not set
Calcium Hydroxide	1305-62-0	0-30	5	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.

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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, burned 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: Inhalation may be harmful, although first aid is not generally required. However individuals with pre-existing lung conditions may have increased susceptibility to dust exposure. Remove affected persons to a well ventilated area. If in doubt, contact a Poisons Information Centre or a doctor.

Skin Contact: If product gets on skin, wash thoroughly with soap and water. No further measures should be required unless irritation is noticed or persists, in which case seek medical advice.

Eye Contact: Irrigate with copious amounts of lukewarm, gently flowing water until the product is removed or until irritation has ceased, while holding the eyelid(s) open. Obtain medical advice if irritation becomes painful or lasts more than a few minutes.

Ingestion: Immediately rinse out mouth with water. Do not induce vomiting. If large quantities ingested, contact a Poisons Information Centre or a doctor

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.

Only small quantities of decomposition products are expected from this product at temperatures normally achieved in a fire. This will only occur after heating to over 350°C when the nuisance dust Magnesium Oxide will be produced.

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.

Auto ignition temperature: Not applicable - does not burn.

Flammability Class: Does not burn.

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. As a minimum, wear overalls, goggles and gloves. Suitable materials for protective clothing include rubber, PVC. Eye/face protective equipment should comprise protective glasses and, preferably, goggles. If there is a significant chance that dusts are likely to build up in the cleanup area, we recommend that you use a respirator. 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. 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.

Section 7 - Handling and Storage

Handling: 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.

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/m ³)	STEL (mg/m ³)	ADI (mg/Kg/day)	NOEL (mg/Kg/day)
Magnesium Hydroxide	not set	not set	not set	not set
Calcium Hydroxide	5	not set	not set	not set

A time weighted average (TWA) concentration for an 8hour day, and a 5 day week has not been established by Worksafe Australia for all 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.

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 this product is being used.

Skin Protection: Wear PVC gloves to prevent skin contact. Wear overall and long sleeves to prevent contact

Respirator: Use P2 type canister respirator where dust is a problem

Section 9 - Physical and Chemical Properties:

Physical Description & colour:	White to grey powder
Odour:	No odour
Boiling Point:	N/A
Melting Point:	350°C, solid at normal temperatures
Volatiles:	No specific data
Vapour Pressure:	N/A.
Vapour Density:	approx 2.5
Bulk Density	2.4g/cc
Water Solubility:	Insoluble – slightly soluble
pH:	approx 10-12
Volatility:	N/A
Evaporation Rate:	N/A.
Coeff Oil/water distribution:	No data
Flash Point	N/A
Auto ignition temp:	Not applicable - does not burn.

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: Store apart from herbicides & fungicides and combustible materials. Store away from heat or fire.

Incompatibilities: Strong acids

Fire Decomposition: Fire may cause the release of the nuisance dust - magnesium oxide

Polymerisation: This product is unlikely to undergo polymerisation processes.

Section 11 - Toxicological Information

No significant health hazards exist for this product.

Skin Effects: Mildly irritating to human skin

Dermal Toxicity: No test data available

Inhalation Effects: No test data available

Sensitisation: No test data available

Ingestion Effects: Oral LD₅₀(rat) = 7340-8500mg/Kg

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

Mutagenicity: No information found

Reproductive Effects: No test data available

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Section 12 - Ecological Information

Calcium oxide component may be toxic to aquatic organisms

Section 13 - Disposal Considerations

Disposal: May be distributed on agricultural land. If no agricultural land is available, collect in sealed containers and dispose in accordance with EPA guidelines

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 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	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
NOS	Not otherwise specified
NTP	National Toxicology Program (USA)
R-Phrase	Risk Phrase
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 NOHSC document "National Code of Practice for the Preparation of Material Safety Data Sheets" 2nd Edition [NOHSC:2011(2003)]
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