

## Section 1 - Identification of Chemical Product and Company

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**Trade Name:** Nuturf Bio-Relief  
**Product Use:** Soil Amendment to improve the health and vigour of turf and soil.  
**Creation Date:** September 08

## Section 2 - Hazards Identification

**Statement of Hazardous Nature:** This product is not classified as hazardous to health 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

**Safety Phrases:** Not Hazardous according to criteria of Worksafe Australia.

**SUSDP Classification:** N/A

**ADG Classification:** None allocated. Not a Dangerous Good.

**UN Number:** None allocated

### Emergency Overview

**Physical Description & colour:** Dark liquid that foams upon shaking.

**Odour:** No Odour

**Major Health Hazards:** For short term exposure by all routes this product is considered to be practically non-harmful. No long term significant risk factors have been found for this product.

### Potential Health Effects

**Inhalation:** Not applicable due to nature of product

**Skin Contact:** Data suggests that this product should present no significant problems and that the product should be classified as not irritating or harmful to the skin.

**Eye Contact:** Data suggests that this product should be classified as non-irritating to the eyes.

**Ingestion:** Data suggests that this product should present no significant problems to typical persons if used as intended and that the product should be considered to be non-toxic by ingestion

### Carcinogen Status:

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

**NTP:** No significant ingredient is classified as carcinogenic by NTP at stated concentration

**IARC:** No significant ingredient is classified as carcinogenic by IARC at stated concentration

## Section 3 - Composition/Information on Ingredients

Ingredients	TWA (mg/m <sup>3</sup> )	STEL (mg/m <sup>3</sup> )
Polysaccharides (organic humectants)	not set	not set
Soil conditioners	not set	not set
Soil Surfactants	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 (0800 764 766 in New Zealand) and is available at all times. Have this MSDS with you when you call.

### MATERIAL SAFETY DATA SHEET

**Inhalation:** Not applicable due to nature of product, does not vaporise at temperatures of usage

**Skin Contact:** If this product comes into contact with skin, wash skin with soap and water.

**Eye Contact:** Immediately irrigate with copious amounts of lukewarm, gently flowing water for 15 – 20 minutes or until the product is removed. Not likely to irritate eyes but obtain medical advice if irritation becomes painful or lasts more than a few minutes.

**Ingestion:** If in mouth, thoroughly wash mouth with water, and then give some water to drink. Further measures should not be necessary. Do not induce vomiting

**Notes to Doctor:** Treat symptomatically. Note the nature of this product.

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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.

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

**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.

**Fire Decomposition:** No known decomposition products at temperatures normally achieved in a fire

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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. As a minimum, wear overalls, goggles and gloves. Stop leak if safe to do so, and contain spill. Absorb onto sand, vermiculite or other suitable absorbent material. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage. 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. Dispose of only in accord with all regulations. 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.

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## Section 7 - Handling and Storage

No special storage and transport requirements. This product has no UN classification.

**Handling:** 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

**Storage:** Store in a cool, dry place away from children and animals or foodstuffs. Containers should be kept closed in order to minimise contamination. 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.

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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**.

Exposure Limits	TWA (mg/m <sup>3</sup> )	STEL (mg/m <sup>3</sup> )	ADI	NOEL
	not set	not set	not set	not set

*A time weighted average (TWA) concentration for an 8 hour day, and 5 day week has not been established by Worksafe Australia for any of the major 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.*

*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.

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

### MATERIAL SAFETY DATA SHEET

**Skin Protection:** Not irritating to skin, but always advisable to wear gloves and overalls

**Respirator:** Not normally necessary.

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.

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## Section 9 - Physical and Chemical Properties:

**Physical Description & colour:** Dark liquid that foams when shaken

**Odour:** No odour

**Boiling Point:** No data

**Volatiles:** No data

**Vapour Pressure:** No data

**Vapour Density:** No data.

**Specific Gravity:** 1.1

**Water Solubility:** Aqueous solution

**pH:** 4.0 -5.0

**Evaporation Rate:** No data.

**Flash Point** N/A - does not burn

**Auto ignition temp:** N/A - does not burn.

**Corrosiveness:** Not corrosive.

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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:** Store away from heat or fire

**Incompatibilities:** No particular incompatibilities

**Polymerisation:** Will not polymerise

**Fire Decomposition:** This product is unlikely to decompose at temperatures normally reached in a fire. There is little or no risk of an explosion from this product if involved in a fire.

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## Section 11 - Toxicological Information

**Oral LD<sub>50</sub>** > 2000 mg/kg

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## Section 12 - Ecological Information

**Environmental Data:** Potential environmental hazard - low

**Ecotoxicological Information:**

No data

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## Section 13 - Disposal Considerations

**Disposal:** 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. This material may be suitable for approved landfill. Dispose of only in accord with all regulations.

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## 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.

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## 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:

<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>	Australian Safety & Compensation Council
<b>CAS number</b>	Chemical Abstracts Service Registry Number
<b>Hazchem Number</b>	Emergency action code of numbers and letters that provide information to emergency services especially fire-fighters
<b>IARC</b>	International Agency for Research on Cancer
<b>NOS</b>	Not otherwise specified
<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 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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