

## Section 1 - Identification of Chemical Product and Company

Nuturf Australia Pty Ltd  
PO Box 6390  
Silverwater NSW 1811

Phone: (02) 9395 1200(Business hours)  
Fax: (02) 9395 1241

**Trade Name:** Green Lawnger (Becker Underwood)  
**Product Use:** Pigment used to colour grasses during dormant periods  
**Creation Date:** February 2008

## 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. S24 Avoid contact with skin

**SUSDP Classification:** N/A

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

**UN Number:** None allocated

### Emergency Overview

**Physical Description & colour:** Dark green Liquid

**Odour:** Mild odour

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

### Potential Health Effects

**Inhalation:** Data suggests that this product should present no significant problems to typical persons if used as intended.

**Skin Contact:** This product may irritate skin. However, it is unlikely to cause more than minor discomfort or effects such as itchiness or slight skin reddening.

**Eye Contact:** This product is mildly irritating to the eyes. It is likely to cause mild discomfort such as watering and redness of the eyes. However, this should quickly disappear once exposure is over.

**Ingestion:** Data suggests that this product is mildly irritating to the gastrointestinal tract. Will cause mild to strong sensation to mouth and throat.

### Carcinogen Status:

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

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

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

## Section 3 - Composition/Information on Ingredients

Ingredients	CAS No	Conc. %	TWA (mg/m <sup>3</sup> )	STEL (mg/m <sup>3</sup> )
Non hazardous dyestuffs	Various	10-100	not set	not set
Kaolin	1332-58-7	10	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.

## MATERIAL SAFETY DATA SHEET

---

## 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:** 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 about 30 minutes, seek medical advice

**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 attention.

**Eye Contact:** Immediately irrigate with copious amounts of lukewarm, gently flowing water for 15 – 20 minutes or until the product is removed or irritation has ceased, while holding the eyelid(s) open. Obtain medical advice if irritation becomes painful or lasts more than a few minutes.

**Ingestion:** Give water to drink, do not induce vomiting, seek medical advice.

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

---

## 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:** The product is non-flammable. Use media to suit burning materials, foam, dry chemical, water fog, carbon dioxide.

**Fire Fighting:** If a significant quantity of this product is involved in a fire, call the fire brigade. Fire fighters to wear self contained breathing apparatus if risk of exposure to vapour or combustion products.

**Flash point:** N/A

**Upper Flammability Limit:** N/A

**Lower Flammability Limit:** N/A

**Auto ignition temperature:** N/A

**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. 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. May be suitable for disposal in land fill, main concern is colouration of land or water. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. 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. Dispose of only in accord with all regulations.

---

## Section 7 - Handling and Storage

**Handling:** No special storage and transport requirements. This product has no UN classification. Not a Scheduled Poison. 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" below. Check Section 8 of this MSDS for details of personal protective measures, and ensure 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 cool, dry place away from children and animals or foodstuffs. Containers should be kept closed in order to minimise contamination. Keep away from possible ignition sources, 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.

---

## 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.

**Ventilation:** Avoid high mist 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 impermeable protective PVC gloves should be worn when you are using this product, to prevent irritation. This product is essentially safe to use without special protective clothing. However, its use is recommended as a good industrial practice.

**Respirator:** Use P2 type canister respirator where dust is a problem. It is usually safe to not use a dust mask or respirator protection on account of this product. However, if the product is being used in dusty or confined conditions, use of a mask or respirator may be preferred.

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:

<b>Physical Description &amp; colour:</b>	Dark green liquid
<b>Odour:</b>	No odour
<b>Boiling Point:</b>	N/A
<b>Melting Point:</b>	N/A
<b>Volatiles:</b>	No data
<b>Vapour Pressure:</b>	No data
<b>Vapour Density:</b>	Heavier than air
<b>Specific Gravity</b>	1.24
<b>Water Solubility:</b>	Dispersible
<b>pH:</b>	No data
<b>Volatility:</b>	No data.
<b>Odour Threshold:</b>	No data.
<b>Evaporation Rate:</b>	Slower than ether
<b>Coeff Oil/water distribution:</b>	No data
<b>Flash Point</b>	N/A
<b>Auto ignition temp:</b>	N/A

## 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:** Extremes of temperature, High humidity.

**Incompatibilities:** Incompatible with strong oxidising agents. Avoid long term storage in direct contact with reactive metals such as aluminium, zinc, copper, nickel, magnesium.

**Fire Decomposition:** Extreme high temperature may produce noxious fumes which may include carbon monoxide, carbon dioxide, nitrous oxides, acetic acid, and free aromatic amines

**Polymerisation:** Does not occur.

---

## Section 11 - Toxicological Information

Oral LD<sub>50</sub> Not known but based on components, estimated LD50 (rat) >5000mg/Kg

---

## Section 12 - Ecological Information

**Environmental Effect:** No data, expected to be readily biodegradable

---

## Section 13 - Disposal Considerations

**Disposal:** This material is normally suitable for disposal at approved land waste site. 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. Dispose of only in accord with all regulations.

---

## Section 14 - Transport Information

**ADG Code:** This product is not classified as a Dangerous Good for transport by road or rail. 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:**

<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)]

Copyright © Nuturf Pty Ltd February 2008

### MATERIAL SAFETY DATA SHEET