



MATERIAL SAFETY DATA SHEET

Natural Soil Conditioner and Mulch Products

Hazardous (“Xn” Harmful, “Xi” Irritant) according to the *Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(2004)]*

IMPORTANT NOTICE: This Material Safety Data Sheet (MSDS) is issued by C-Wise in accordance with National Occupational Health and Safety Commission guidelines. The information contained in this document must not be added to, deleted or altered. C-Wise will issue a new MSDS when there is a change in the product specifications and/or with the National Occupational Health and Safety Commission guidelines/regulations. C-Wise will not accept any responsibility for any changes made to its MSDS in content by any other person or organisation.

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24th February 2021

Section 1 – Identification of the Material and Supplier

Product (Material) Name:	Natural Soil Conditioner and Mulch Products.
Other Names:	Quicken Sports Plush Lawn Hort Perfect Natures Mulch Forrest Mulch Pure Black Mulch Eco Mulch Peat & Jarrah Mulch
Recommended Uses:	Broadacre Crops, Pastures, Horticultural and Turf. Not suitable for Home Garden or Certified Organic Use.
Supplier Name:	C-WISE
Website:	www.cwise.com.au
Supplier Address:	139 Nambeelup Rd, Nambeelup WA 6207
Supplier Tel:	08 9581 9582
Supplier Fax:	08 9581 9585
Emergency Services:	08 9581 9582 (8.00am to 5.00pm Monday to Friday, except Public Holidays)

Section 2 – Hazards Identification

Hazard Classification:	HAZARDOUS SUBSTANCE. NON DANGEROUS GOODS.
	Due to the presence of fine organic dusts and mists (bio-aerosols) that can be suspended in air and are both inhalable and respirable, these products are classified as a hazardous substance according to the <i>Approved Criteria for Classifying Hazardous Substances</i> , 3 rd Edition [NOHSC:1008(2004)]: Products may contain sharp materials
Risk Phrases:	“Xn” Harmful: R42 May cause sensitisation by inhalation. “Xi” Irritant: R43 May cause sensitisation by skin contact.
Safety Phrases:	Do not breathe dust. Keep material moist when handling to reduce dust Use only in well-ventilated areas. Wear suitable gloves. Wash hands after use Avoid contact with eyes. Avoid contact with skin.

Section 3 – Composition/ Information on Ingredients

Ingredients:	<p>The products listed in this MSDS are made by blending a range of recycled organic materials including: garden and organic food waste, agricultural crop residues, livestock manures, bio-solids and extracted sands and soils.</p> <p>The raw ingredients are mixed various percentages according to product formulation recipes, then pasteurised to destroy pathogens and disease organisms, and finally composted to comply with quality specifications and a defined level of maturity.</p> <p>Products contain a variety of living micro-organisms, including bacteria, fungi and protozoa. The risks associated with organic dusts are common to all such organic materials and soils.</p>
Not Relevant/Not Applicable:	Chemical Identity of the Pure Substance, Common Names, Synonyms, CAS Number/s

Section 4 – First Aid Measures

Facilities should be available where this product is used to carry out first aid procedures.

Ingestion:	If swallowed these products may cause abdominal discomfort and risk of gastro-intestinal infections. Wash mouth out with water, give water to drink. Seek medical attention if experiencing nausea or abdominal symptoms. The 24 hour Poison Information Centre hotline 131126 can provide additional assistance.
Eye Irritation:	Wear suitable Personal Protective Equipment (PPE) (safety goggles). Dust and/or liquid mist (bio-aerosols) may be irritating to the eyes and can result in redness and watering, or eye infection. Flush eye/s immediately with gently flowing water (preferably lukewarm) while holding the eyelid open for approx 10 - 20 minutes or until irritation is alleviated.
Skin Irritation:	Wear protective gloves. For some people direct skin contact, or indirect contact via deposits on surfaces or clothing may lead to skin irritation or sensitisation, dermatitis or skin infection. Wash affected area as soon as possible with a mild soap and water (preferably lukewarm running water). Treat any cuts with disinfectant.
Inhalation:	Use in well ventilated areas, wear suitable respirator mask. Breathing of dust and/or liquid mists (bio-aerosols) via nose or mouth may irritate, inflame or sensitise the nose, throat and lungs, and aggravate pre-existing conditions such as asthma and bronchitis. If irritation is experienced remove from exposure source, move to fresh air and rest until symptoms are alleviated.
Chronic Effects:	Repeated Inhalation of dust and/or liquid mist bio-aerosols from these products may result in respiratory irritation, inflammation or sensitisation resulting in illnesses ranging from hay fever and asthma to pneumonia (e.g. Legionnaire's disease) and pneumonia-like illnesses. The elderly, those with pre-existing respiratory diseases, and the immunocompromised are at higher risk of such illnesses. All people working with these products should ensure that they are adequately protected from tetanus.
Medical attention:	<u>Seek medical attention if symptoms persist.</u> Treat symptomatically. Seek immediate medical advice if any unexplained illness with fever, cough or other infections occurs after exposure.

Section 5 – Fire Fighting Measures

Suitable Extinguishing Media:	Water or Class (A) extinguishers.
Hazards from Combustion Products:	<p>As for wood piles, material stockpiles may spontaneously ignite and smoulder where moisture levels are inadequate.</p> <p>Indicators of fire risk are smoke odours or large dry piles of material with core temperatures that increase above 60°C without biological cause to do so.</p> <p>Breaking open smouldering piles can introduce oxygen and increase the risk of fire breakout.</p> <p>If safe to do so, remove machinery and isolate the affected area, then soak the pile with water. Otherwise, contact fire authorities.</p> <p>NOTE: Actively managed compost piles with adequate moisture levels can reach temperatures in excess of 75°C without fire risk.</p>
Precautions for Fire Fighters:	Use standard fire-fighting and personal protective equipment for Class (A) fires. (solid organic materials including paper, wood, textiles etc.)
Special Protective Equipment:	There are no special precautions.
Hazchem Code:	Not Relevant.

Section 6 – Accidental Release Measures

Emergency Procedures:	<p>In the event of a road spill or release of the material in a sensitive environment including near water bodies, act to secure the safety of other road users and the clean-up team first.</p> <p>Advise Main Roads (Western Australia): 138 138 (if a spill occurs from a transport vehicle)</p> <p>Advise the Fire & Emergency Services Authority of Western Australia (FESA): 000</p> <p>Advise the product supplier emergency contact: 08 9581 9582</p>
Methods and Materials for Containment and Clean Up:	<p>The material is restricted for specific land applications and should be recovered for use as intended or disposal if material is contaminated.</p> <p>Supply PPE to all personnel involved in clean-up. Refer SECTION 8 of this document for information on Exposure Controls/PPE</p> <p>Secure the site to minimise dust using water or tarpaulins on material and bund area to avoid material run off into waterways or across property boundaries.</p> <p>Collect material into suitable containers for reuse or disposal using a mechanical loader, vacuum system or broom and shovel.</p> <p>Refer to SECTION 13 of this document for information on Disposal.</p>

Section 7 – Handling and Storage

Precautions for Safe Handling:

Check prevailing weather conditions before handling this material and avoid loading, tipping or spreading in high wind or heavy rain conditions. Assess moisture content and add water as required to reduce dust.

Use recommended PPE at all times when handling this material. Refer SECTION 8 of this document for information on Exposure Controls/Personal Protection Equipment

Products have a low risk of containing sharp materials. Wear suitable gloves and handle with care.

When transporting this material, the load must be covered to minimise dust and loss of material onto roadways.

Wash any areas of the body that come in contact with the material using soap and water. Launder protective clothing before reuse.

Conditions for Safe Storage:

Store material in a cool, dry and ventilated area in a manner that minimises dust and avoids run off into stormwater, waterways or across property boundaries.

Protect stockpiles from high wind to minimise risk of drying and dust generation using water sprayed on stockpile or a tarpaulin or wind break secured to the ground.

If stockpiling material for an extended period, maintain adequate moisture levels above 40% to minimise combustion risk.

Check Stockpiles regularly for evidence of self-heating above 75+ degrees Celsius.

Refer to SECTION 5 of this document for Fire Fighting information.

Section 8 – Exposure Controls/ Personal Protection

National Exposure Standards:

No specific exposure standards have been allocated for this material, however due to the dust in the product, general concentrations for monitoring dust exposure are provided by a number of standards as listed below:

Total Inhalable Dust

10mg/m³ (National Occupational Health & Safety Commission,2004).

Total Respirable Dust

2mg/m³ (American Conference of Governmental Occupational Hygienists, 1986).

Biological Limit Values:

This material is pasteurised to destroy pathogens in accordance with AS4454-2012.

Engineering Controls:

Keep material moist when handling to reduce dust. Use in open or well-ventilated areas to minimise exposure to dust and/or liquid mist.

Respiratory Protection:	Avoid breathing dust or liquid mist (bio-aerosols). Wear a suitable respiratory protective device conforming to AS/NZS 1715: 1994 – Selection, use and maintenance of respiratory protective devices. A Class P1 Particulate Respirator is typically most appropriate.
Skin Protection:	Suitable gloves conforming with AS/ NZS 2161: 2000 – Occupational Protective Gloves. Standard duty leather/pigskin, rubber or neoprene gloves are typically most appropriate. Wear full length protective trousers and shirts (or overalls) and suitable boots for the site.
Eye Protection:	Wear suitable eye protection conforming with AS/ NZS 1336: 1997 – Recommended practices for occupational eye protection. Low impact goggles with indirect ventilation (HT or CT with C, D optional) are typically most appropriate.
Hygiene:	Wash hands with soap and water before consuming food or smoking. Shower and wash body after removal of work clothing. Launder work clothing before reuse.

Section 9 – Physical and Chemical Properties

Appearance:	Dark brown/black organic material.
Odour:	Strong earthy odour.
pH:	6.0 – 8.0 in water. (Refer to Product Data Sheets on website) www.cwise.com.au/soil-improvers/product-information.html
Moisture:	Typical 40-55%
Apparent Density:	Natural Fertiliser 600-1,000kg per cubic metre. Mulch 400-500kg per cubic metre.
Information for Flammable Materials:	Refer SECTION 5 of this document for Fire Fighting information.
Not Relevant/Not Applicable:	Vapour Pressure, Vapour Density, Boiling Point/Range, Freezing/ Melting Point, Solubility, and Flashpoint.

Section 10 – Stability and Reactivity

Chemical Stability:	Stable under normal conditions of storage and use.
Conditions to Avoid:	When material moisture content is <3540% material becomes dusty creating issues for handling, application and storage. Materials should be applied soon after receiving as fire risk can arise where stored or stockpiled material is too dry. Refer to SECTION 7 of this document for Handling and Storage information.
Not Relevant/Not Applicable:	Incompatible Materials, Hazardous Decomposition and Hazardous Reactions.

Section 11 – Toxicological Information

Health Effects:	Health effects can arise from inhalation of dusts or ingestion. Allergic response to contact with composts is rare but has been reported.
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Refer SECTION 4 of this document for First Aid information.

Section 12 – Ecological Information

Eco-toxicity and Mobility: This material contains plant nutrients (including nitrogen, Phosphorous and potassium), trace elements and micro-organisms including bacteria, fungi and protozoa that occur naturally in the landscape and soil environment. Materials should be handled to prevent release of nutrients into waterways.

Refer to SECTION 7 of this document for Handling and Storage information to avoid negative ecological impacts from stockpiles.

Section 13 – Disposal Considerations

Disposal Methods: Refer SECTION 7 of this document for Handling and Storage information.

Special Precautions for Landfill: The material is non-putrescible and can be applied to land. (Refer to the Product Data Sheets on the website) www.cwise.com.au/soil-improvers/product-information.html; or otherwise dispose of as trade waste in accordance with local authority guidelines.

Section 14 – Transport Information

Special Precautions for User: Material must be covered with a tarpaulin for transport.
Refer SECTION 7 of this document for Handling and Storage information.

Not Available/Not Relevant: UN Number, Proper Shipping Name, Class and Subsidiary Risks, Packaging Group, Hazchem Code.

Section 15 – Regulatory Information

Regulatory Status: This product is not regulated under any Western Australian guidelines. No poisons schedule number is allocated.

Additional Information: This material is produced in accordance with Australian Standard AS 4454-2012 guidelines for manufacture of Composts, Soil

Conditioners and Mulch. The mandatory health warning label specified in the AS 4454 is provided below.

HEALTH WARNING
THIS PRODUCT CONTAINS MICROORGANISMS
KEEP PRODUCT MOIST WHEN HANDLING TO AVOID DUST
AVOID BREATHING DUST OR MISTS—
WEAR PARTICULATE MASK IF DUSTY
THIS PRODUCT HAS LOW RISK OF CONTAINING SHARP MATERIALS
WEAR APPROPRIATE GLOVES AND FOOTWEAR AS A
PRECAUTIONARY MEASURE
WASH HANDS IMMEDIATELY AFTER USE
READ DETAILED WARNING LABEL ON THIS BAG
REFER TO MANUFACTURER'S MATERIAL SAFETY DATA SHEET

Section 16 – Other Information

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This MSDS is consistent with the requirements specified in the *National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition* [NOHSC:2011(2003)]. Whilst the information contained in this document is based on data which, to the best of our knowledge, was accurate and reliable at the time of preparation, no responsibility can be accepted by us for errors and/or omissions. The provision of this information should not be construed as a recommendation to use any of our products in violation of any patent rights or in breach of any statute or regulation. Users are advised to make their own determination as to the suitability of this information in relation to their particular and specific circumstances/needs. Since the information contained in this document may be applied under conditions beyond our control, no responsibility can be accepted by us for any loss or damage caused by any person acting or refraining from action as a result of this information.

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