

ISSUE DATE: 05-MAY-2016

## MATERIAL SAFETY DATA SHEET

### BioBedding / BioFibre / BioMulch/ HydroMulch/BioFuel

IMPORTANT NOTICE: This Material Safety Data Sheet (MSDS) is issued by Direct BioBedding, in accordance with Worksafe Australia Guidelines. As such, the information contained herein must not be altered, deleted or added to. Direct BioBedding will issue a new MSDS when there is a change in product specifications and/or Worksafe Australia Guidelines/regulations. Direct BioBedding will not accept any responsibility for any change made to its MSDS in content by any other person or organisation.

*Non hazardous according to criteria of NOHSC Australia*

#### IDENTIFICATION

**Product:** Recycled Softwood Chip and BioFibre  
**Other Names:** Pinus Radiata and other chip & fibre, kiln dried and heat treated to export standard ISPM 15.  
**UN Number:** None Allocated.  
**Trade Name:** Direct BioBedding  
Direct BioMulch  
Direct BioFibre  
Direct HydroMulch  
Direct BioFuel  
Direct Supersorb  
**Dangerous Goods Class:** None Allocated  
**Subsidiary Risk:** None Allocated  
**Hazchem Code:** None Allocated  
**Poisons schedule number:** None Allocated  
**Use:** Organic bio absorbent for sludges, or for use as an animal bedding, or as a raw garden mulch, or a biofibre product, or hydromulch, woodflour or biofuel.

#### Physical Descriptions/Properties

**Appearance:** The fine softwood chip has a blonde/golden pine colour. The colour gradually darkens or greys with weathering.

**Odour:** Pine fragrance  
**Boiling Point/Range:** None Allocated  
**Melting Point:** None Allocated  
**Vapour Pressure (20°C):** None Allocated  
**Flammability limits in air:** Fine airborne dust can ignite spontaneously. (See "Fire/explosion hazard")  
**Specific gravity (20°C):** Varies according to moisture content. Weighs approximately 200 kilograms per cubic metre at 10% moisture  
**Flash Point:** None Allocated  
**Auto ignition Point:** >220°C  
**Solubility in Water:** Highly insoluble  
**Molecular Weight:** None Allocated

<u>Ingredients:</u>	<u>Name</u>	<u>CAS No.</u>	<u>Proportion by Weight</u>
	Softwood	None	>99%



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## HEALTH HAZARD INFORMATION

### Acute Health Effects:

**Swallowed:**

Unlikely under normal conditions. Swallowing wood dust may cause abdominal discomfort

**Eye:**

Wood dust is irritating to the eyes resulting in redness and watering

**Skin:**

Skin contact with wood dust may cause irritation.

**Inhaled:**

Inhalation of wood dust may be irritating to the nose, throat and lungs

**Chronic Health Effects:**

**Chronic:**

Repeated inhalation of wood dust from this product may increase the risk of nasal cavity cancer. Exposure to softwood dust in some susceptible people may result in respiratory and skin sensitisation leading to asthma and dermatitis respectively.

However, if the work practises noted in this MSDS are followed, and exposure to airborne dusts are kept low, no acute or chronic health effects are anticipated.

**First Aid:**

If poisoning occurs, contact a doctor or poisons information centre.

**Swallowed:**

Give water to drink. Seek medical attention if any abdominal discomfort.

**Eyes:**

Flush thoroughly with water for at least 15 minutes. If irritation persists seek medical attention.

**Skin:**

Wash thoroughly with mild soap and water. Remove clothing if contaminated with wood dust.

**Inhaled:**

Leave the dusty area.

**Advice to Doctor:**

Treat symptomatically.



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## PRECAUTIONS FOR USE

**Exposure Standards:** Worksafe Australia Exposure Standard.

Name	TWA		STEL	
	Mg/m3	ppm	mg/m3	ppm
Wood dust(softwood)	5.0	-	10	-

Measured as inspirable particulate sensitising to skin and respiratory tract

**Recommendation:** Keep exposure as low as practicable with the aim of maintaining inspirable wood dust levels below 1.0mg/m<sup>3</sup> TWA.

**Engineering controls:** All work with Direct BioBedding must be carried out in such a way as to minimise exposure to wood dust. Local exhaust ventilation devices capable of removing dust at the source or fans to create artificial ventilation could be used to remove the wood dust from the workers breathing zone. Measures should be taken to eliminate the build-up of static electricity.

**Respiratory Protection:** If engineering control is not practical then respiratory devices may need to be worn. Avoid breathing wood dust. Wear a P1 or P2 respirator suitable for particulate and conforming with Australian Standards AS/NZS 1715 and AS/NZS 1716 when exposed to dust. These standards should be followed in the selection, fit-testing, use, storage and maintenance of the respirators.

**Skin Protection:** If skin protection is necessary, wear protective gloves (AS/NZS 2161.1), loose comfortable clothing and boots. Long sleeved shirts and long trousers are recommended if skin irritation occurs. Wash skin with mild soap and water after working with Direct BioBedding. Launder work clothes regularly and separately from other clothes.

**Eye Protection:** Non- fogging goggles or safety glasses (AS/NZS 1337) should be worn if there is a risk of wood dust getting into the eyes.

**Flammability:** Not flammable under normal conditions of use, but is combustible and will help sustain a fire.



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## SAFE HANDLING INFORMATION

<b>Storage:</b>	Store in a well-ventilated area away from sources of heat, flame, sparks or other contamination. While no special transport requirements are recommended, it should be noted that this product can spontaneously combust. Avoid confining this product for long periods of time in poorly ventilated containers.
<b>Marine Transport:</b>	Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea. Product consists of ISPM15 heat treated export softwood fibre.
<b>Air Transport:</b>	Not classified as Dangerous Goods Regulations for transport by air. Product consists of ISPM15 heat treated export softwood fibre.
<b>Spills and disposal:</b>	Waste material should be placed in containers and disposed of at approved landfill sites. If clean Direct BioBedding is spilled it can simply be re-added to its bag or used as garden mulch
<b>Fire / explosion hazard:</b>	Wood dust will help sustain a fire and the dust may form an explosive mixture with air. Avoid sparks, the build-up of static electricity, and sources of ignition in all electrical equipment and dust extraction equipment.
<b>Fire fighting:</b>	In a fire, use water jets to extinguish flames.
<b>Suitable extinguishing media:</b>	If material is involved in a fire use water, fog (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry chemical powder).



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## OTHER INFORMATION

**Smoking:** Direct BioBedding recommend that all storage and work areas should be smoking-free areas.

**Toxicology:** None Allocated.

**Risk Statement:** None allocated

### **References:**

- List of Designated Hazardous Substances, NOHSC Australia, April 1999
- Exposure Standards for Atmospheric Contaminants in Occupational Environment, Worksafe Australia, May 1995
- Environmental Health Criteria No 94; international program on chemical safety; World Health Organization, Geneva; 1990
- ADI List, Commonwealth Department of Health and Family Services. 05/98

## CONTACT POINT

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