

## PRODUCT SPECIFICATION

### MULCH

**Product Name: Jungle Mulch**

**Issue date:**

**Product Code: SAMI000**

**June 2018**

**Product Description:** Organic material suitable for placing on soil surfaces as mulch.

Characteristic & Unit		Requirement From AS 4454-2003	Typical Analysis
Description		Conforms	Yes
pH		5.0 to 7.5	6.5
Electrical Conductivity	dS/m	No limit	2.5
Phosphorus, soluble	mg/L	≤ 5 for P sensitive plants	0.5
Phosphorus, total	%	≤0.1 for P sensitive plants	<0.1
Ammonium-N	mg/L	<200	<5.0
Nitrate-N	mg/L	≥10	<5.0
Ammonium-N plus nitrate-N	mg/L	No requirement	-
Nitrogen, total	%	≥0.6	0.50
Organic matter content	%	≥25	50 %
Boron B	mg/kg	< 200	13.0
Sodium Na	%	No requirement	0.08
Wettability	Minutes	< 7	<1 min
Toxicity	mm	No requirement	-
Particle size grading:	%		
Maximum size	mm	≤16	Mulch
Tolerance	% mass	≥ 70 % retained by sieve	
Total CaCO <sub>3</sub> equivalent	%	To be determined and stated if pH > 7.5	-
Chemical Contaminants (Includes Heavy Metals)		State guidelines for unrestricted use.	Passed CI Grade
Organic Contaminants		State guidelines for unrestricted use.	Passed CI Grade
Pathogens (Plant & Human Pathogens)		State guidelines for unrestricted use.	Passed PI Grade, except for coliforms
Moisture Content	%	No requirement	25 -30 %
Contaminants	%		
Glass, metal and rigid plastics >2mm		≤ 0.5	<0.5
Plastics- light, flexible or film >5 mm		≤ 0.05	<0.05
Stones and lumps of clay ≥ 5 mm		≤ 5	<5
Self Heating °C		No requirement	-

**Note: Detailed typical analysis continued on next page**

**MULCH**

Issue date: June 2018

Product ID : Jungle Mulch

Characteristic & Unit		Requirement From AS 4454-2003	Typical Analysis
<b>Chemical Contaminants:</b>		<b>Grade CI Biosolids</b>	
<b>Constituents</b>		<b>Maximum allowable conc. in mg/kg dry solids</b>	<b>mg/kg</b>
Arsenic	mg/kg	20	6
Cadmium	mg/kg	3	0.4
Chromium Total	mg/kg	100	9
Copper	mg/kg	100	37
Mercury	mg/kg	1	0.18
Nickel	mg/kg	60	4
Lead	mg/kg	150	6
Zinc	mg/kg	250	49
Molybdenum	mg/kg	4	<2
Selenium	mg/kg	3	<2
<b>Organic Contaminants :</b>			
<b>Organochlorine (OC) Pesticides</b>			
Aldrin	mg/kg	0.02	<0.01
BHC Total	mg/kg	0.5	<0.01
Chlordane	mg/kg	0.02	<0.01
DDD	mg/kg	0.02	<0.01
DDE	mg/kg	0.02	<0.01
DDT	mg/kg	0.02	<0.01
Total DDT Analogs	mg/kg	0.5	<0.01
Dieldrin	mg/kg	0.02	<0.01
HCB	mg/kg	0.02	<0.01
Heptachlor	mg/kg	0.02	<0.01
Chlorpyrifos	mg/kg	0.02	<0.02
<b>Organophosphorus (OP) Pesticides</b>			
Bromophos Ethyl	mg/kg	N/A	<0.05
Ethion	mg/kg	N/A	<0.05
Diazinon	mg/kg	N/A	<0.1
Malathion	mg/kg	N/A	<0.1
Fenitrothion	mg/kg	N/A	<0.1
<b>PCB Total</b>	mg/kg	0.3	<0.2
<b>Pathogen Test:</b>		<b>Grade PI Biosolids</b>	
Phytophthora (plant pathogen)		N/A	Not detected
Pythium (plant pathogen)		N/A	Not detected
Salmonella sp. (human pathogen)		< 1 Salmonella per 50 g	Negative
Thermotolerant coliforms (human pathogen)		<100 MPN Thermot. cfu/mL	<1000 cfu

**Authorised by: Maria Sevo, Quality Manager**