

PRODUCT SPECIFICATION

MULCH

Product Name: Budget Black Mulch

Issue date:

Product Code: SAM0810

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	7.3
Electrical Conductivity	dS/m	No limit	2.21
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	77 %
Boron B	mg/kg	< 200	10.0
Sodium Na	%	No requirement	0.07
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 ₃ 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	30 - 35 %
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

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Chemical Contaminants:		Grade CI Biosolids	
Constituents		Maximum allowable conc. in mg/kg dry solids	mg/kg
Arsenic	mg/kg	20	<10
Cadmium	mg/kg	3	0.1
Chromium Total	mg/kg	100	5
Copper	mg/kg	100	10
Mercury	mg/kg	1	0.05
Nickel	mg/kg	60	3
Lead	mg/kg	150	7
Zinc	mg/kg	250	15
Molybdenum	mg/kg	4	<2
Selenium	mg/kg	3	<2
Organic Contaminants :			
Organochlorine (OC) Pesticides			
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
Organophosphorus (OP) Pesticides			
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
PCB Total	mg/kg	0.3	<0.2
Pathogen Test:		Grade PI Biosolids	
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