

Table S2. Original values for PLA used to create Table 2.

Ref	Reference Flow	Ozone Layer (Kg CFC-11 eq/kg plastic)	Climate change (Kg CO ₂ eq/kg plastic)	Fresh water eutrophication (Kg P eq/kg plastic)	Marine eutrophication (Kg N eq/kg plastic)	Human toxicity (Kg 1,4-DB eq/kg plastic)
[1]	11.28 g for each 500 ml PLA bottle	NA	0,616	NA	NA	0,218
[3]	4.6 kg for a 1000 PLA cups	-7,99E-07	17,48	1,07E-03	4,18E-02	NA
[21]	30,54 kg for a 1000 PLA packages	9,15E-05	NA	NA	NA	NA
[22]	1 tonne of PLA residues	1,54E-07	NA	0,0025	0,56	NA
[34]	1 tonne of PLA	NA	NA	NA	13,3	NA
[60]	16.26 kg for a 1000 250 ml PLA water bottles	NA	NA	NA	NA	NA
[56]	1 kg of PLA	81,9	NA	NA	58,38	NA
[5]	1 kg of PLA	NA	NA	NA	1,30E-03	NA
[23]	1 kg of PLA	5,74042E-10	4,62	-0,00002139	0,011525	0,1571
[53]	188 g for each PLA film	8,4	0,5837	-0,0000185	1,16E-03	NA
[37]	12.2 kg for a 1000 500 ml PLA bottles	NA	NA	NA	NA	NA
[24]	48 kg for a 1000 900 ml bottles	1,58E-08	NA	NA	NA	NA
[25]	8.5 g of PLA for each cup	0,000064195	0,3165	NA	NA	NA

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[26]	1 kg of PLA	1,70E-06	4,62	0,002	NA	NA
[28]	0.84 kg of PLA	0,000013	NA	1,90E-03	1,20E-03	NA
[11]	1000 kg of PLA	NA	NA	NA	NA	1210,98
[29]	25.2 g of PLA for each 1L package	1,01E-09	4,27E-02	3,36E-06	NA	NA
[30]	22.8 kg for a 1000 1 L PLA bottles	0,00004	NA	NA	NA	354,27
[58]	1.33 g of PLA for each straw	26	NA	NA	NA	NA
[33]	1 tonne of PLA	NA	3,13E+03	1,32	9,81	2,05E+03
[57]	1 kg of PLA	NA	NA	NA	NA	NA
[31]	1 kg of PLA	4,76E-07	9,221	0,0045	0,007	2,914
[27]	1 kg of PLA	6,13E-06	NA	3,45E-03	7,15E-04	NA
[37]	12.2 kg of PLA for 1000 500 ml bottles	NA	NA	NA	NA	NA
[32]	13.9 of PLA for each 1 L tray	1,91E-11	0,054	1,02E-06	2,55E-04	NA