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Litter Life contains highly active “reactive lignins” with 7 to 9 carbon and oxygen open bonding sites per molecule. The complexed lignin reactive surface structure is estimated at 900,000 square meters per kilogram and an enormous negative cation exchange capacity of 1500 to 3000 moles per kilogram. These active sites function as a macromolecular sponge, adsorbing and binding (capturing) potentially odorous and harmful compounds such as Hydrogen Sulfide and Ammonia.

Lignin has also been shown in the laboratory to have an impressive effect in suppressing bacterial growth. In an experimental study, (Nelson et al.) Analyzed the effect of lignin on the growth of bacteria after incubation of 0,2,4,8 and 24 hours in vitro and obtained the following results:

	Hours of Incubation				
	0	2	4	8	24
Lignin					
S. aureus	1.0×10^3	8.0×10^2	0	0	0
E. coli	2.3×10^3	5.0×10^1	0	0	0
Klebsiella	3.4×10^2	3.7×10^2	2.0×10^3	0	0
Pseudomonas	3.6×10^2	3.8×10^2	0	0	0
Without Fiber					
S. aureus	9.0×10^2	4.4×10^3	6.6×10^4	1.7×10^8	1.3×10^9
E. coli	1.7×10^3	2.3×10^4	9.0×10^5	3.3×10^9	3.3×10^9
Klebsiella	1.2×10^3	7.3×10^3	1.6×10^6	1.4×10^8	7.1×10^8
Pseudomonas	8.5×10^2	2.0×10^3	2.9×10^4	9.0×10^8	2.2×10^9

- Non Corrosive
- Keeps Litter DRY!
- Binds Ammonia!
- Reduces “caking” in litter
- Non-toxic
- Simple to apply
- Amazing odor abatement qualities
- Less shavings required
- Reduces mortality rate
- Reduces condemnation rate

