

The calculations by the American Academy of Pediatrics were based on paint film thickness such that an average film weighed 89 mg./cm². But these were probably high lead paints with a specific gravity of ~ 2.5. Our present day paints have a specific gravity of ~ 1.5. Thus a film of equal thickness (~14 mils or 350μ) of present day paint would only weigh 3/5 as much as old high lead paints. If films of equal thickness are put down (which would be more than equal coverage) we gain another factor of 5/3. So we could raise the quantity of chips eaten per day to 6-1/2 cm²/day.

$$(2 \times 2.5 \times 11/6 - 1/2) 0.06 = 0.51$$

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