A graph with vertex set $V$ is said to have a prime cordial labeling if there is a bijection $f$ from $V$ to $\{1, 2, \ldots, |V|\}$ such that if each edge $uv$ is assigned the label 1 for the greatest common divisor $gcd(f(u), f(v)) = 1$ and 0 for $gcd(f(u), f(v)) > 1$ then the number of edges labeled with 0 and the number of edges labeled with 1 differ by at most 1. In this paper, we show that M"{o}bius Ladder $M_n$ is prime cordial for all $n$ except $M_4$. (Received January 09, 2015)