Mechanism

Organometallics such as alkyllithium or Grignard reagents are **strong bases**, which can react with any acidic proton, i.e., -OH, -NH₂, etc. Dialkyl cuprates and cyanocuprates are weak bases. All organometallics are good nucleophiles. They can react with epoxides in an S₉2 mechanism attacking the least hindered side of the epoxide.