Technical Notes:
1. Catalyst for the conversion of enynes to catechol derivatives.
2. Catalyst for the intermolecular [2+2+1] cycloaddition of ketones, CO and alkenes or alkynes.
3. 3-Component couplings.
4. Reaction of α,β-unsaturated imines with carbon monoxide and alkenes to form β,γ-unsaturated γ-butyroactams.
5. Ester decarboxylation.
6. Catalyst for hydroamination and C-H bond activation.
7. Used in sp²-C-H bond arylation and carbonylation.
8. Ru/halide catalytic system for C-C bond forming reaction between alkynes and unsaturated carbonyl compounds.

References: