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(54) Title: **TRANSFER HYDROGENATION PROCESS**

(57) Abstract: A catalytic transfer hydrogenation process is provided. The process can be employed to transfer hydrogenate N-substituted imines and iminium salts, which are preferably prochiral. The catalyst employed in the process is preferably a metal complex with one hydrocarbyl or cyclopentadienyl ligand and which is also coordinated to defined bidentate ligands. Preferred metals include rhodium, ruthenium and iridium. Preferred bidentate ligands are diamines and aminoalcohols, particularly those comprising chiral centres. The hydrogen donor is advantageously a mixture of triethylamine and formic acid. A process for the production of primary and secondary amines using the catalytic transfer hydrogenation of the N-substituted imines and iminium salts is also provided.