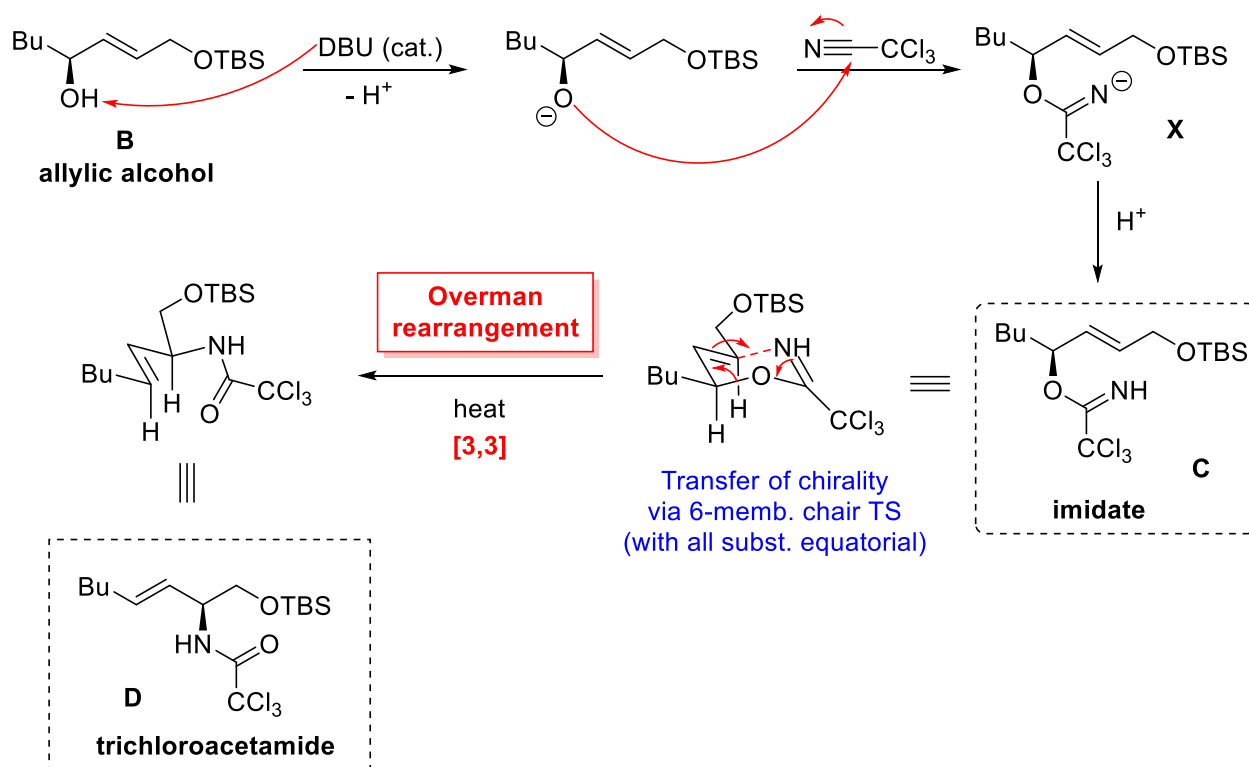
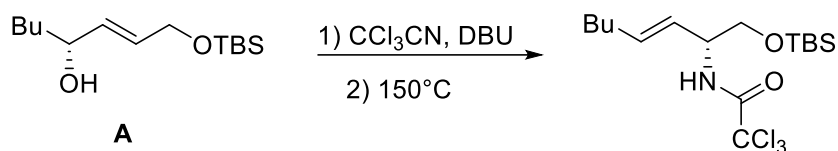


Mechanism:



Starting from A:



- ◆ Simple acetonitrile (CH<sub>3</sub>CN) cannot be used because it lacks the strong **-I effect** of the CCl<sub>3</sub> group, which is necessary to allow the initial nucleophilic addition by the alkoxide.
- ◆ Only **catalytic base** is needed, since the trichloroacetimidate anion **X** can easily deprotonate another alcohol **B**.
- ◆ The Overman rearrangement converts allylic alcohols into **allylic amines** (after (C=O)CCl<sub>3</sub> hydrolysis) with high transfer of chirality. Therefore (cfr. transition state), only **B** can give product **D**.