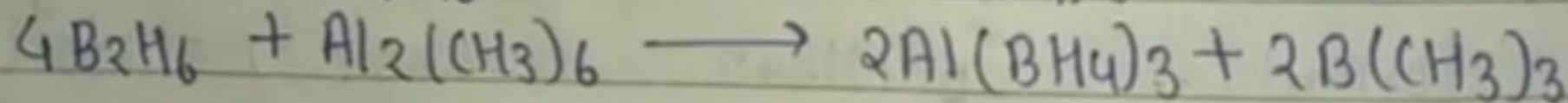
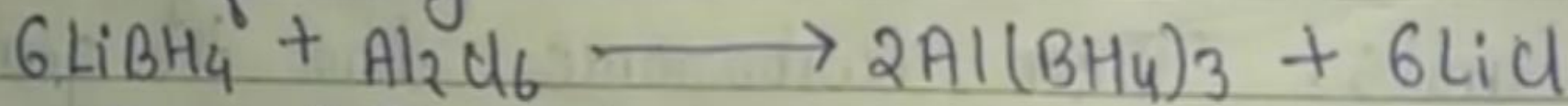


Metalloboranes :- These are metal complexes of borane anions and are formed by a number of metals. The most important are the alkali metal compounds.

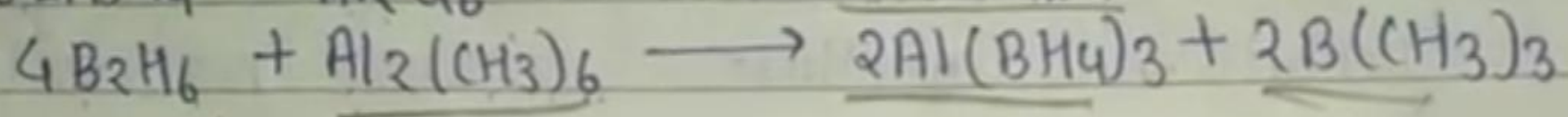
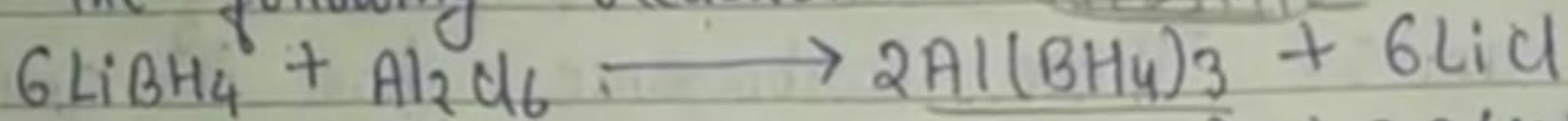
Preparation :- $1. B_2H_6 + 2LiH \xrightarrow{\text{ether}} 2LiBH_4$ (lithium borohydride)

2. Aluminium borohydride can be prepared by the following reaction :-



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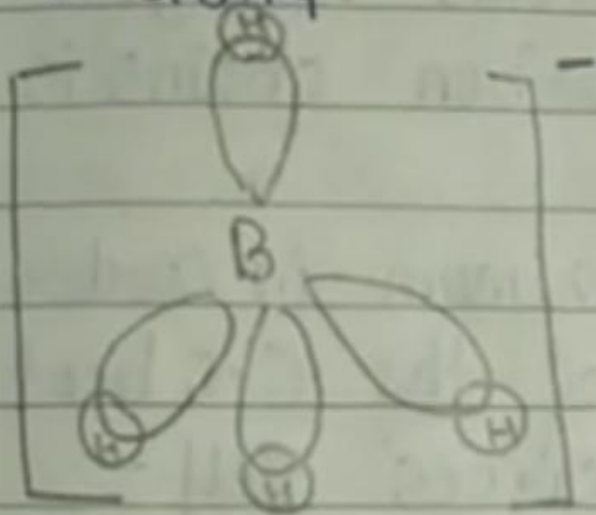
2. Aluminium borohydride can be prepared by the following Reaction :- AlB_3H_{12}



Properties :- 1. Lithium borohydride decomposes in the absence of air at about $275^\circ C$ but the sodium and potassium compounds are stable under these conditions to $400^\circ C$.

2. Lithium compound is also decomposed by water.

1. LiBH_4



2. $\text{AlB}_3\text{H}_{12}$

