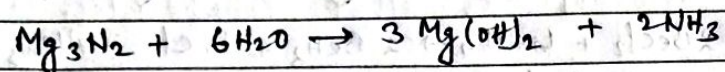
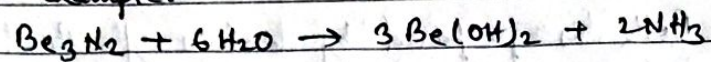


Alkaline earth metals (D-A) Reaction with Nitrides

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- * All elements of DA burns in N_2 to give M_3N_2 (nitrides).

For example:

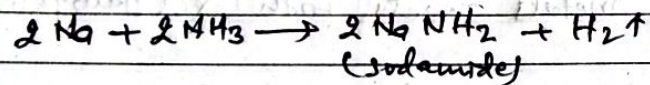


Formation of amalgam

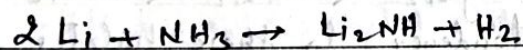
- * Alkaline earth metal gives amalgam with Hg.
- * These metals reacts with other metals to give mixed metals (alloys).

Solubility in liquid Ammonia

- * Only Ca, Sr and Ba gives blue solution of ammoniated electron.
- * Be and Mg are small in size and high ionization energy so do not dissolve in liquid NH_3 .
- * Dark blue colour of solution becomes fade if it is allowed to stand for a long time, it is because of metal amide formation.



exception $\Rightarrow$ Li forms imide



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- * On increasing the concentration of metal in solution, it converts into bronze colour due cluster formation of metal ions.