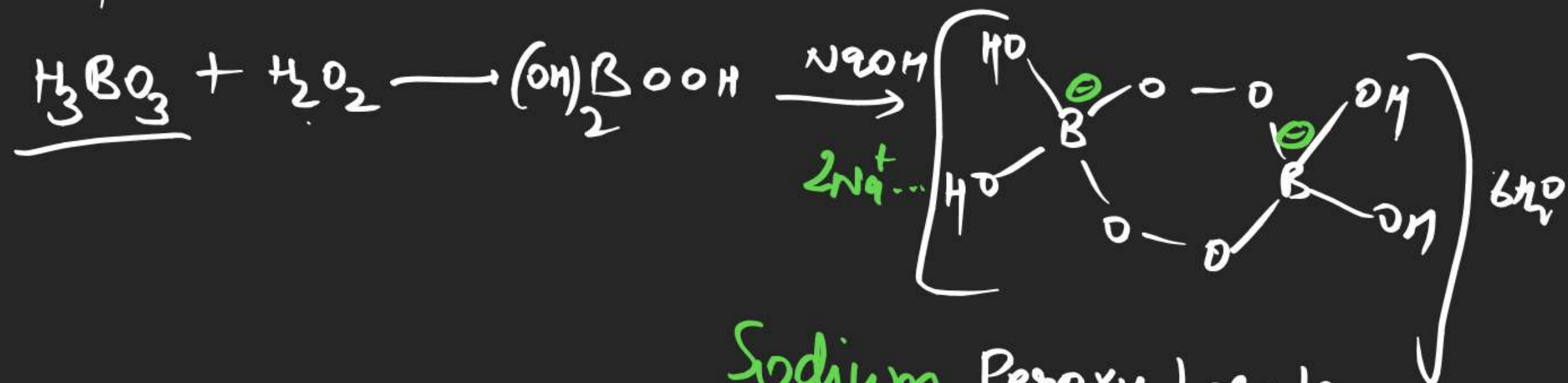
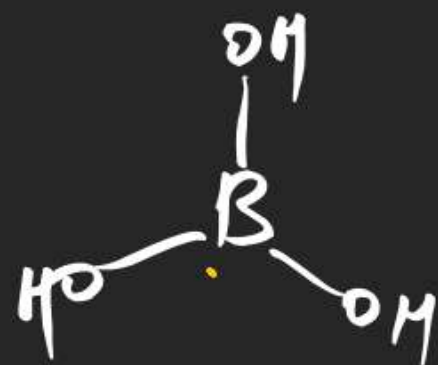


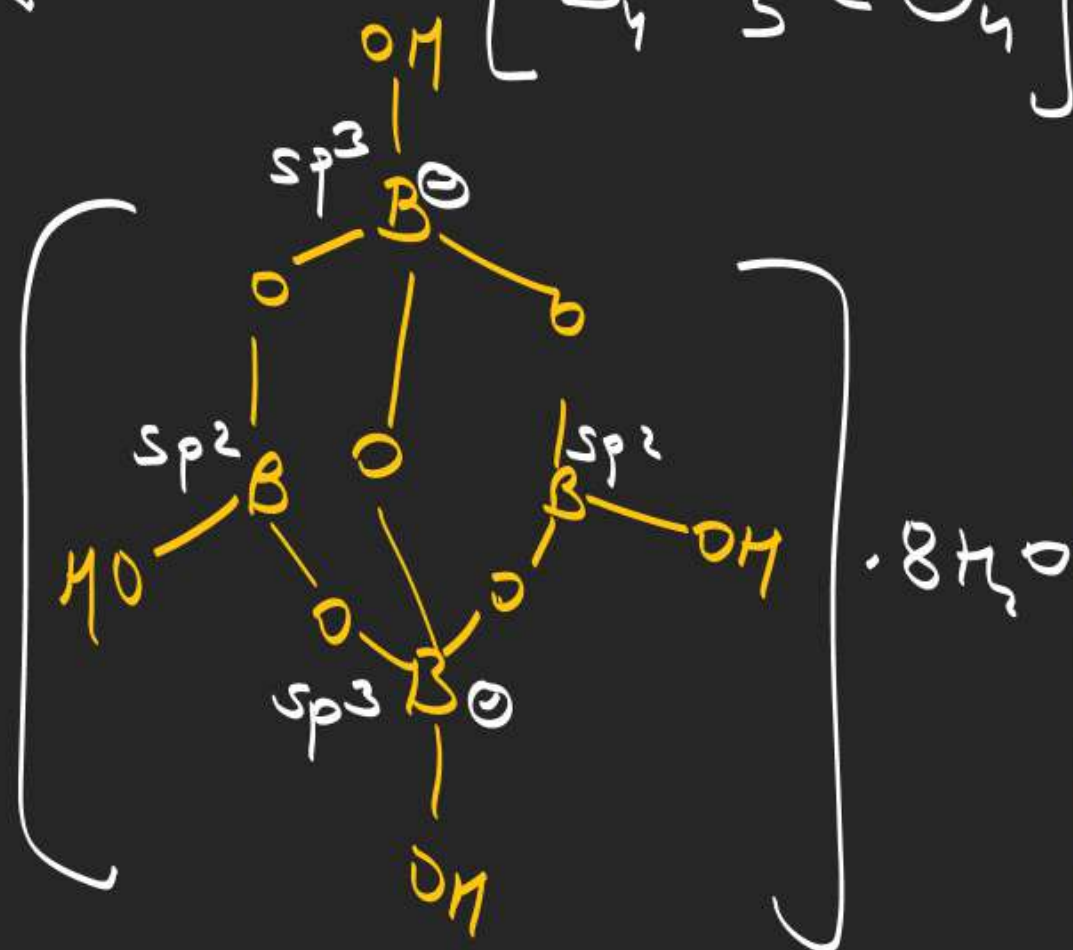
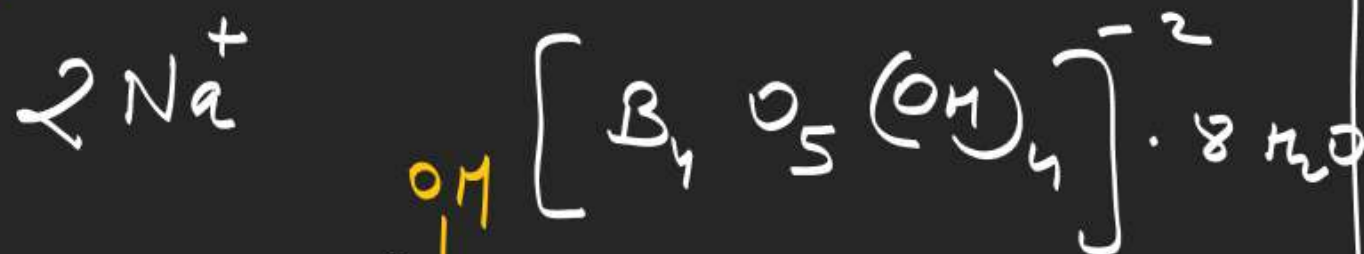
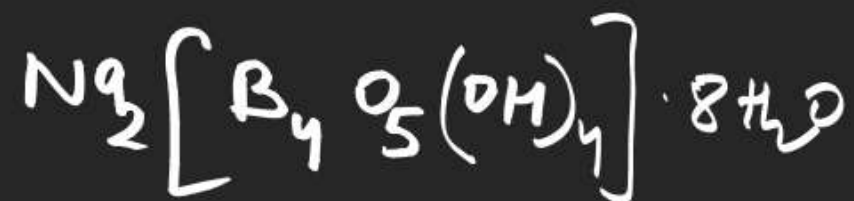
## $H_3BO_3$ Reaction with $H_2O_2$



Sodium Peroxy borate

It is used in washing powder as brightener.

# Boha x



all boron atoms are not in same plane

$$B-O-B \text{ linkage} = 5$$

Condition of cyclic structure

Central atom more than two

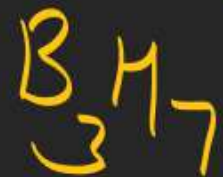
S.A should be equal to or greater than the central atom

two tetrahedral unit

two trigonal planar

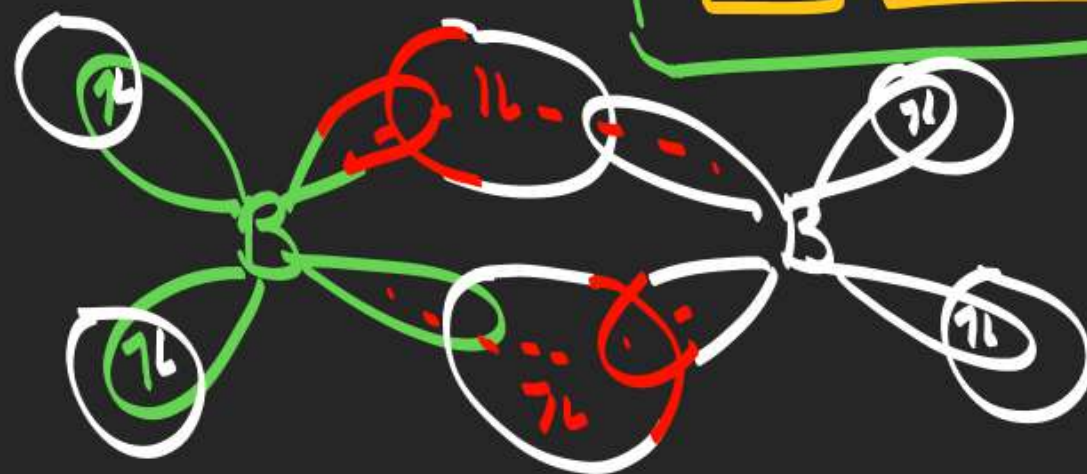


Borane



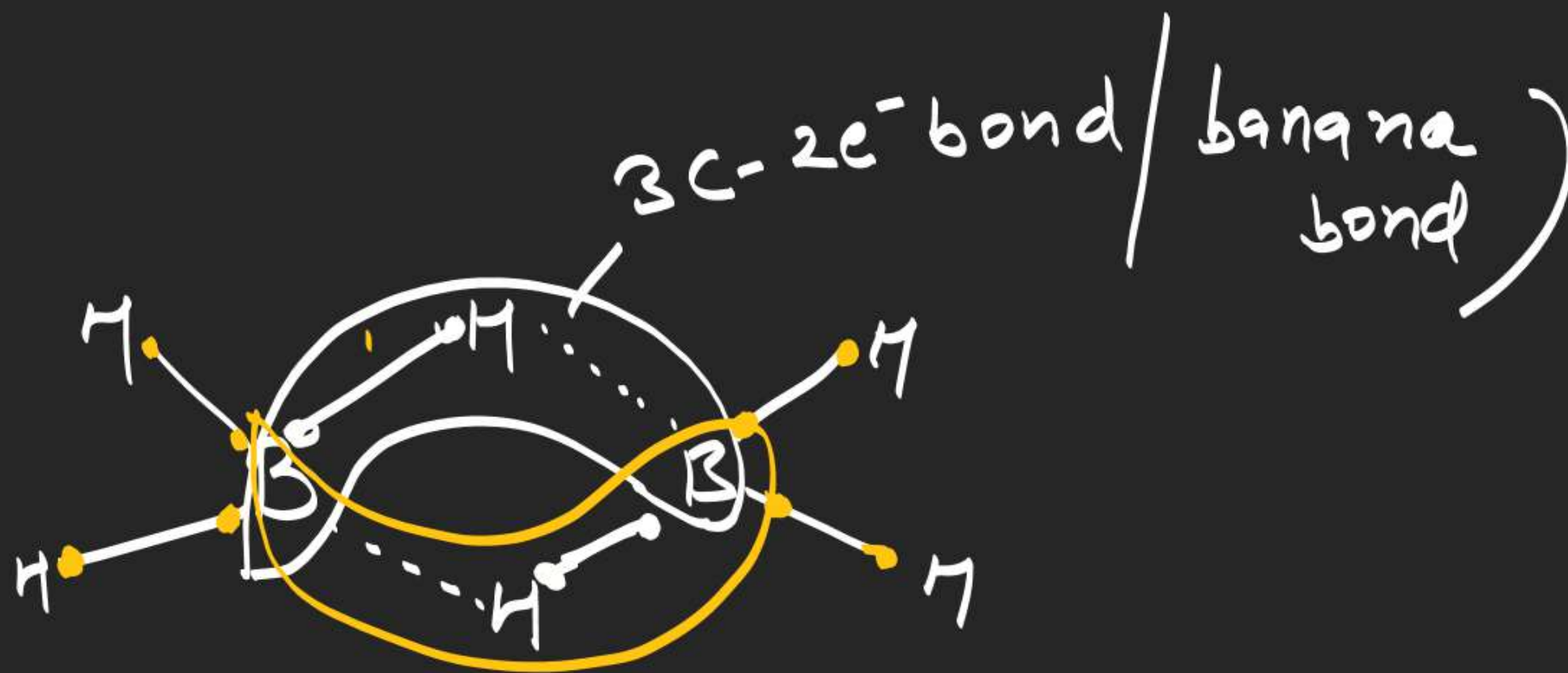


$B_2H_6$  is a nido borane



$e^-$  deficient / hypovalent / Lewis acid  $\Rightarrow$  molecule  
which has  
less than  $8e^-$

Prep. $\textcircled{2}$  Lab. Prep. $\textcircled{3}$  Industrial prep.



$3C-2e^-$  bond = two

$2C-2e^-$  bond = four



$\text{sp}^3$  non planar

Lewis acid

$\text{e}^-$  deficient

hy po val.



## Heating effect

