Class-X
Subject- Chemistry

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Bleaching Powder (calcium oxychloride) $CaOCl_2$

Chemically, bleaching powder is calcium oxychloride or calcium hypochlorite.

Manufacture of Bleaching Powder.

Bleaching powder is manufactured by passing chlorine gas over dry slaked lime.

$$Ca(OH)_2 + Cl_2 \longrightarrow CaOCl_2 + H_2O$$

(calcium hydroxide) (Chlorine) (Calcium oxychloride) (Bleaching Powder) Water

Properties of Bleaching Powder

1. Bleaching powder a white powder with a strong smell of chlorine.
2. Bleaching powder is soluble in water but a small insoluble portion is always left behind due to lime present in it.
3. Bleaching action of Bleaching powder: On treating bleaching powder with excess of a dilute acid, all the chlorine present in it is liberated.

Teacher's Signature.....

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$$CaOCl_2 + H_2SO_4(aq) \longrightarrow CaSO_4 + Cl_2 + H_2O$$

(Bleaching Powder) dilute sulphuric acid (Calcium sulphate) (Chlorine) (water)

Uses of Bleaching Powder:

1- Bleaching Powder is used in textile industry for bleaching cotton and linen.
2- Bleaching powder is used for washing clothes in laundry.
3- Bleaching Powder is used for disinfecting drinking water supply.
4- Bleaching powder is used in the laboratory as an oxidising agent.
5- It is used in the manufacture of Chloroform.
6- It is used in rendering wool unshrinkable.

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