C3 L6: Alkali From Salt

Monday, September 28, 2015

8:57 AM

the processes of making salt into alkali

The Leblanc Process (inefficient - small product with lots of input) You need large quantities of alkali: during the time period needed for cleanliness - agriculture etc.

2 million tonnes --- 1/4 of a million tonnes

sodium chloride + iron sulfide (sulfuric acid) -> sodium sulfide + hydrogen chloride gas coal + calcium carbonate + sodium sulfide -> sodium carbonate + calcium sulfide

over 200 hectares X 4m depth -- solid waste from alkali industry

the hydrogen chloride from the factories, if dissolved in rainwater, produced acid rain. (Which has the same elements as hydrochloric acid) This led to building and wildlife damage and reactions with solid waste to release foul smelling hydrogen sulfide.

cleaning up process involved

- reacting water and hydrogen chloride gas before it was exitted.
- gas hidrogen plonde gas is oxidised • Henry Deacon made chlorine from the gas

disadvantages of living in Widnes

respiratory problems trollution etc.)

So regulations in scientific advancements are crucial in order not to damage the environment / people