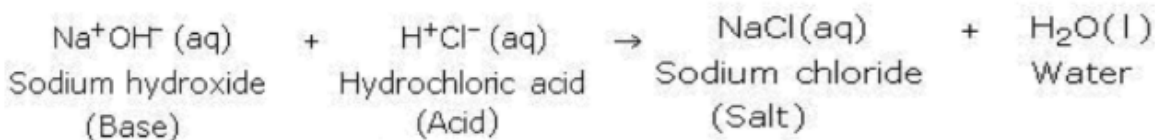


## Topics: Acids, Bases and Salts

### Subtopics: More about Salts

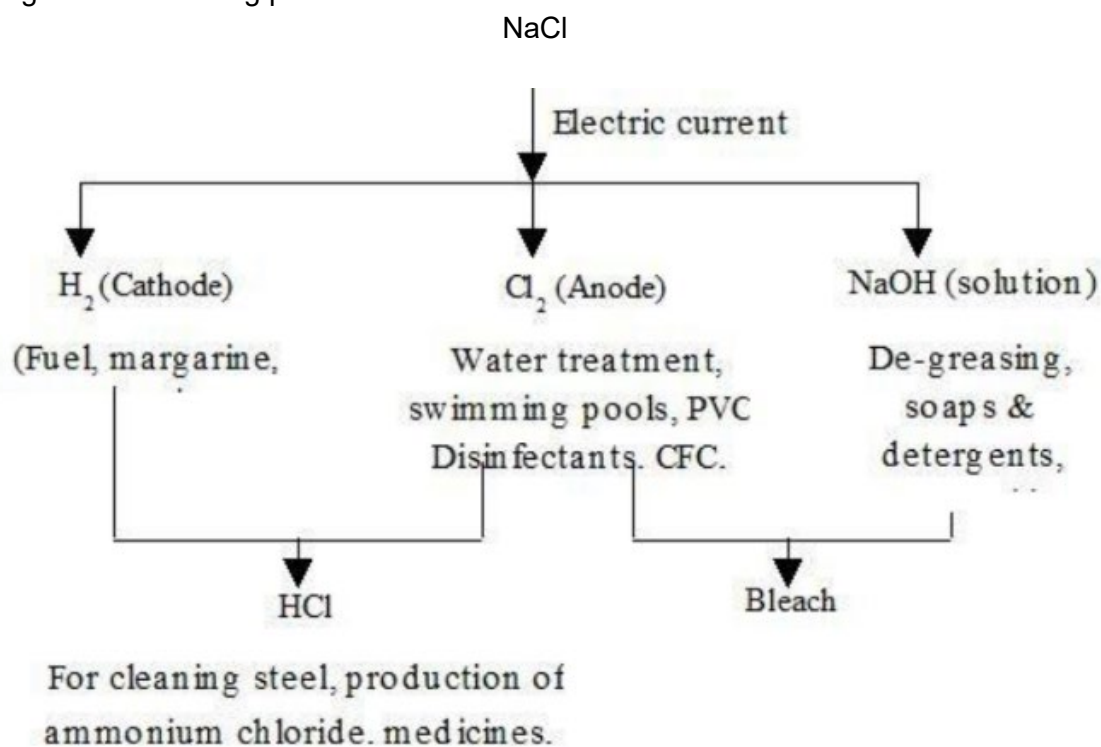
#### Salts

Salts are obtained by treating an acid with a base. Salts consist of both positive ions or 'cations', and negative ions or 'anions'.

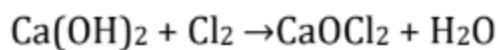


#### Sodium Chloride

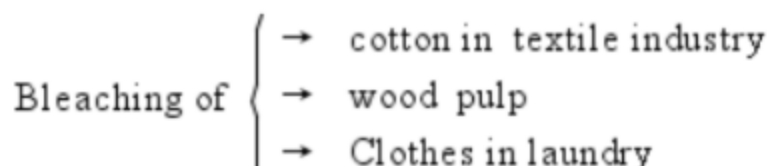
Sodium chloride is the commonly available salt and so is called common salt. Electrolysis of brine gives the following products:



- **Bleaching powder**  $\rightarrow \text{CaOCl}_2$
- **Preparation-**

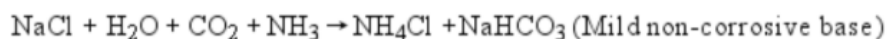


- **Use -**



**Baking soda** -  $(\text{NaHCO}_3)$  Sodium hydrogen carbonate

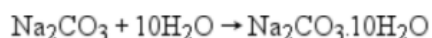
- **Preparation -**



- **Use -**

Making baking powder (Baking soda + Mild acid, like tartaric acid)  
 Ingredient for antacids  
 Soda-acid fire extinguisher  
**Washing soda** -  $\text{Na}_2\text{CO}_3 \cdot 10\text{H}_2\text{O}$

- **Preparation-**



- **Use** -In glass, soap, paper industries

Making sodium compounds such as borax  
 As domestic cleaning agent

- **Removing permanent hardness of water**

- **Water of crystallisation** : It refers to a fixed number of water molecules present in one formula unit of salt.
- **Example** - In gypsum, the water of crystallisation is 2.

