

Scum Decomposition


Vegetable fats (oils and fats) used in food factories and kitchens are mostly unsaturated fatty acids.

On the other hand, Sodium Hypochlorite Water infused with Sodium Hypochlorite is

$\text{NaClO} + \text{H}_2\text{O}$ will change to $\text{NaOH} + \text{HClO}$

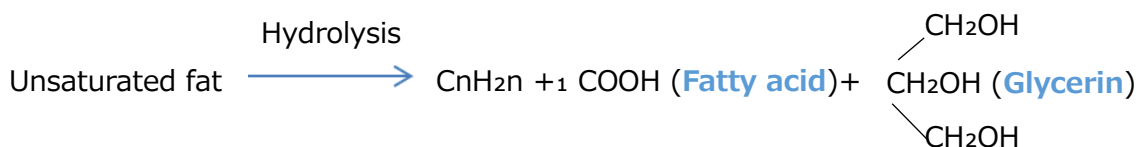
further reaction

$\text{HClO} \rightarrow \text{HCl} + [\text{O}]$

 Nascent Oxygen (has strong Oxidizing properties)

and $[\text{O}]$ (Nascent oxygen) generated here acts as a powerful oxidant.

Meanwhile, fats and oils (unsaturated fats) are hydrolyzed by oxidation etc.



Breaks down into Fatty Acids and Glycerin.

Glycerin is a typical trihydric alcohol, which is soluble in water.

In addition, Fatty Acids are insoluble in water as they are, but the $[\text{O}]$ (Nascent Oxygen) produced by the catalytic reaction of Mechacera has a strong oxidizing action, and most of the Fatty Acids are converted into propionoid. It changes to aldehyde ($\text{C}_2\text{H}_5\text{CHO}$).

Propionic acid and Propionaldehyde are water-soluble chemicals.

Furthermore, by repeating the oxidation reaction, propionic acid and propionaldehyde change to acetic acid (CH_3COOH) or acetaldehyde (CH_3CHO), and further oxidation changes to CO_2 (carbon dioxide gas) and H_2O (water).

Under normal conditions, Fat and Water do not get along well and exist separately, but when they react with the above-mentioned "Mechacera Water", they become soluble in water, decomposing Fat (oil) and Scum.