

# API

## Active Pharmaceutical Ingredients



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# Active Pharmaceutical Ingredients

- ▣ Active Pharmaceutical Ingredient – is the basic drug itself with the desired medicinal (pharmaceutical) properties. Also referred to as Bulk Drugs.
  - All drugs are made up of two core components: the API, which is the central ingredient, and the excipients, the substances other than the drug that helps deliver the medication to your system. Excipients are chemically inactive substances
    - ▣ The Active Pharmaceutical Ingredient Industry is the organ by which active pharmaceutical ingredients are manufactured from raw materials through both chemical and physical means.
      - Taking that synthesis from the milligram scale to the manufacturing scale is the role of the process chemist. ... The goal of a process chemist is to develop synthetic routes that are safe, cost-effective, environmentally friendly, and efficient
      - The key to efficient, reliable milling for the production of active pharmaceutical ingredients (APIs) is the ability to tightly control particles sizes. Even more important; it's the capacity to consistently achieve narrow particle size distribution (PSD) ranges.

Pharmaceutical manufacturing occurs in two general steps.

First, firms convert raw materials into Active Pharmaceutical Ingredients (APIs).

API production is a highly sophisticated, technically demanding chemical and biochemical fermentation and/or synthesis process

While Italy still remains the world market leader in APIs destined to sectors such as cardiovascular or the central nervous system, China leads in anti-infective APIs

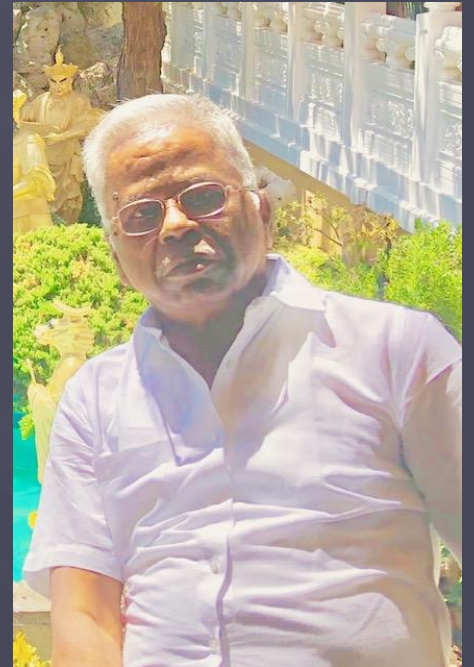
The ferocious competition between the two countries continues and, over the last few years, as the Indian industry has not been able to keep pace with the Chinese prices and as the Chinese continue to catch up in technology skills, several Indian firms have shut down some business lines, let the business go to Chinese firms and then moved on to more complex products

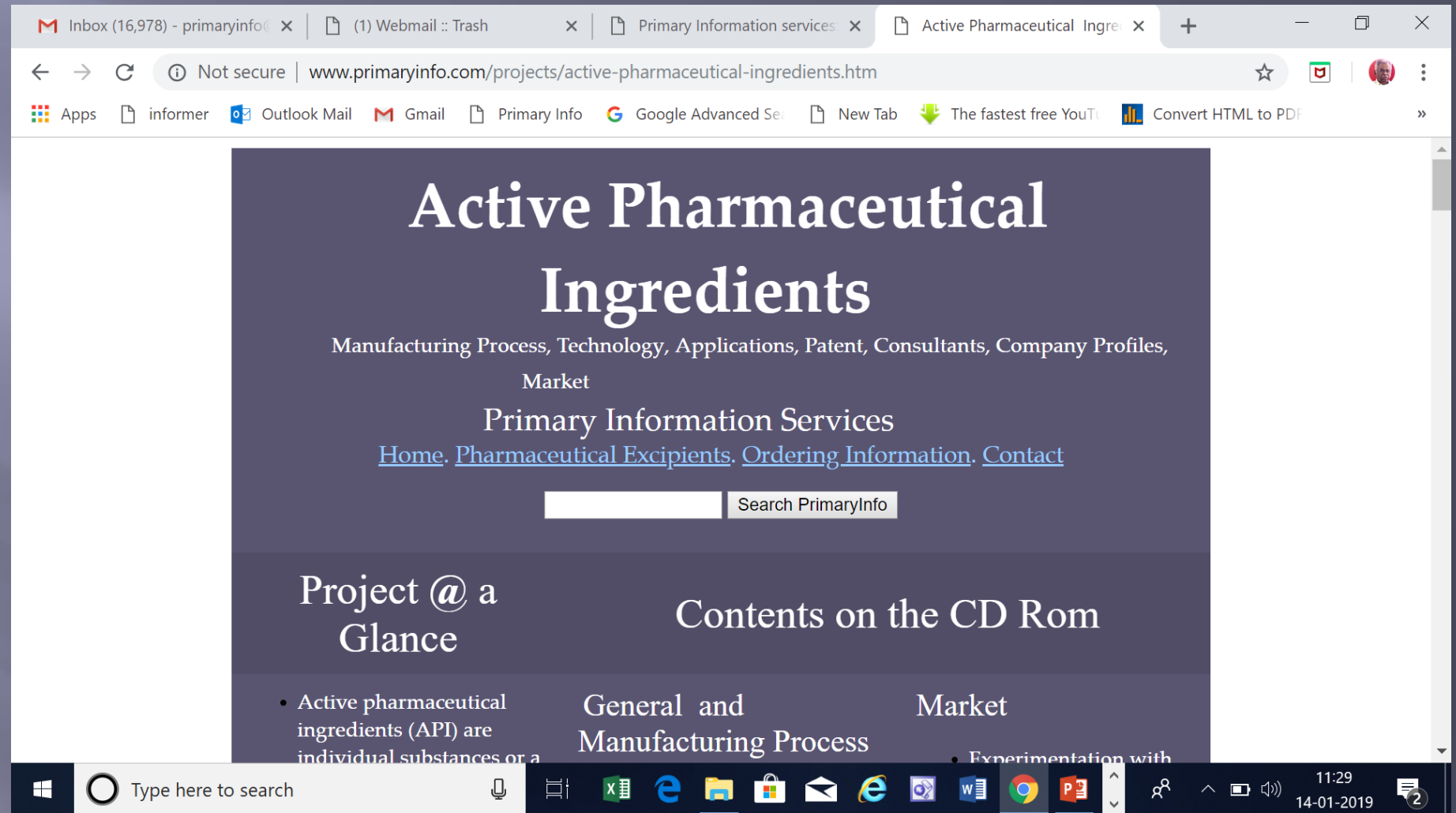
# We offer the data base on API

The next slide presents you the data base

Please take a look or click the link

<http://www.primaryinfo.com/projects/active-pharmaceutical-ingredients.htm>





APIs are manufactured by chemical synthesis, extraction, cell culture/fermentation, by recovery from natural sources, or by any combination of these processes

Questions?

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