



# GRUPO COINSU

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Íntegros Pioneros Hondureños®

Vitaminas • Ingredientes • Bioenergías • Aceites Vegetales

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# DISTILLED BIODIESEL



It is a mixture of methyl esters of fatty acids (FAME), **obtained from renewable raw materials** such as oils and vegetable or animal fats of any kind.

The production process consists of a reaction stage catalyzed by alkalis, followed by a set of purification stages.





## USE OF BIODIESEL

The production and consumption of biodiesel in the world has grown significantly in recent years, driven by the search for:



Renewable energy sources



Decrease dependence on oil



Reduce Global Warming



## DISTILLED BIODIESEL



It can be mixed in any proportion with fossil diesel, without requiring any modification to the conventional diesel engine.

Typically the mixtures are called with the letter **B** and the percentage of biodiesel in the mixture, in this way B100 is called pure biodiesel, B50 when it carries half of biodiesel and the other of diesel.

Biodiesel is easily **biodegradable and is not toxic**. Additionally it improves the life of the engine thanks to its lubricity and is much safer for handling and transport because it has a higher ignition point.





## DISTILLED BIODIESEL

The sulfur content in Biodiesel is very low or zero, which makes it a good option to reduce sulfur dioxide.

The main pollutants emitted by Engines when using petroleum diesel are:

NOx: Nitrogen Oxides

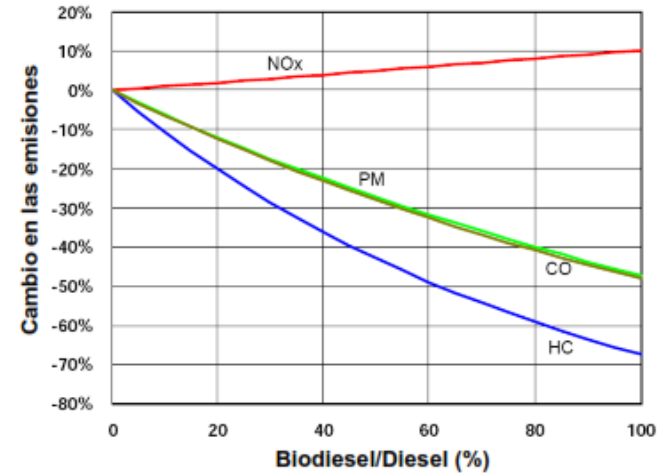
PM: Particulate material

CO: Carbon monoxides

HC: Hydrocarbons

In the graph made by the United States Environmental Protection Agency EPA

indicates how they are reduced by using biodiesel with the exception of NOx



Cambio porcentual de las emisiones para distintas mezclas biodiesel / diesel.



# OUR DISTILLED BIODIESEL HAS BEEN USED IN:



Cars and trucks



Backhoe loader



Heads



Boiler

