



## MECCAMO

### Company:

Since 1983, the name MECCAMO has been synonymous with quality, consistency, performance and reliability. Our range of MECCAFUEL, EXCELE FUEL, STRATOS FUEL have been at the cutting edge of modelling technology and our extensive global network of distributors and retailers ensure that MECCAMO products are readily available to the modeller wherever they may be. Actually, we are the leader in European market; we export to 25 different countries in the world.



We supply the OEM service for world-wide famous companies as **Kyosho Corporation, R&B products, Team Orion and Avion & Tiger**, and we are in co-operation with **GRP engine, Sirio engine** and so on.

Our fuel is World champions' choose, our fuel is chosen **Mr. Renauld Savoya, Mr. Yuichi Kanai, Mr. Fabio Boero, Mr. Adrient BERTIN, Mr. Andrea BARTELS, Mr. Borja HERNANDEZ, Mr. Alex LAFRANCHI, Stephin CARRIER, Mr. Hung cheung Hnag, Mr. S. VUILLAUME** and etc.

We are also **official supplier** of fuel service of **French army**.

We have increased 11% of our sale in 2007, and we estimate our sale will have increase more than 10% in 2008. Because our Asian market is in very strong progression.



## Definition:

Other brands of RC fuel in current market, the fuel are the craft of industrial manufacture; it's the mixtures of different raw materials such as the Methanol, the Nitro methane, and one or several lubricants. The quality of the end product will depend in that case, essentially of the initial quality of these raw materials.

Before approaching the qualitative problem of these raw materials, it is important to know that f MECCAMO fuel is not obtained by simple mixture of various products, but it's the result of a preliminary chemical reaction of the nitro methane on the various molecules of synthetic oil which MECCAMO incorporates into its formulations.

The advantages are quite obvious users who after hours of using of their engine notice and appreciate almost total absence of carbon deposit on the top of the piston. Furthermore, a lubricating film recovers all the details in movement of the engine.

## The Materials

For the year 1993, the investment in an equipment of spectrometry infrared and chromatography piloted by microcomputer and software of treatment and acquisition of the data offer us very important possibilities, notably in the control and the development of our products



These tools allow us to control every raw materials received in our warehouse, they will be used only after an approval, obtained by the comparison of the results with the requirements of our conditions of contract.

## The Manufacture

The control of the quality continues after the manufacture phase and before packaging, where 3 samples will be taken and identified with regard to this batch of manufacture. One of them will be the object of a treatment spectrometric and chromatographic. The obtained results will determine if the product can be or not packaged, 2 other samples will be sealed and preserved in our installations during 2 years being able to serve as contradictory samples in case of dispute.



In wait of packaging, the mixture is stored in STAINLESS tubs 304L under azotes.



## The Traceability

Since 1993, this traceability of our production was organised. It consists in identifying every batch of manufacture and packaging. All our packaging are numbered (On colour stick, with rate of nitro methane), we register all the numbers being a part of the same batch of manufacture and then consequently can by reminder of the number, to determine its membership in one of the batch manufacture existed and referenced.



## The Specific Packaging

MECCAMO uses packaging perfectly adapted to protect the fuel of beams UV.

The pervading hygrometry (humidity of the air). To protect us from these problems of hygrometry the manufacture of our fuels is realised by manufacturing process and a packaging under sluggish gas patented (Azotes), which assure a total absence of water.



Quite our packaging correspond the European standards. The orders of safety are in the language of the country where the product is sold.

Cans are in high density tetrafluore Polyethylene

## The Logistic

The distribution and marketing in the whole world are supported by an organization and a perfect management of logistics.



## The Additives

Inhibitor of corrosion:

MECCAMO developed an inhibitor of specific corrosion in our uses. It protects our engines of the oxidation.

Anti-frictions:

The anti-frictions which MECCAMO uses in someone of its mixtures allow to decrease the temperature of functioning, to consume less, to increase the longevity engine, to facilitate the regulations and to increase the final return.



Anti-foams:

This agent aims at reducing the forming of bubbles caused by the vibrations.

The Lubricants

Our fuel includes three types of different molecules, each being adapted to the need of an optimal lubrication: 1) Lubrication with low temperature

- 2) Lubrication with high temperature
- 3) Lubrication allowing the water poorness (between shirt and piston)



The purpose is to increase this indication of lubrication without increasing the responsibility of lubricant in the fuel or then selecting lubricants which have at the same moment good lubricating and explosive powers. There are various families of lubricant, synthetic lubricants and natural lubricants (mineral, plant)

Castor oil

The castor oil is a vegetable oil. MECCAMO uses some castor oil dismissed which belongs to the standard PHARMACOPOEIA (CODEX). This standard guarantees the maximal purity for performances optima.

Synthetic oil

MECCAMO developed various oil for our micro engines. This oil allows having performances of the very first order. Indeed, oil which MECCAMO uses guarantees an exceptional lubrication in all the terms of service.

## **The Raw Materials**

We only use the highest quality ingredients:

A) The Nitro methane  $\text{CH}_3\text{NO}_2$

Concerning the Nitro methane the paragraph will remain short. There are in the world 2 continents capable of producing Nitro methane: the USA and CHINA. If every manufacturers of fuel store it with care and

incorporate into volume the quantities which they announce nothing is to be added in this paragraph.

Considering its volumes of production very important MECCAMO has the possibility of choosing the batch of manufacture the most adapted to our needs.

B) The Methanol  $\text{HCH}_2 - \text{OH}$

MECCAMO works in association with several producers of methanol. They have to respect very rigorous conditions of contract on the specifications of the product.

The transport of the product is made by cistern special of 30.000 litres. These cisterns transport only methanol to avoid any contagion.

The product is stored in stainless tubs under nitrogen to avoid the phenomena of oxidation.