



***** FLORASOLS *****

The Essential Oil Company is pleased to offer **Wilde & Company's "Florasols"** produced by **Dr. Peter Wilde** in the United Kingdom . These exquisite oils capture the totality of fragrant materials, yielding a product true to the plants from which they are derived.

Wilde & Co. products are produced using a revolutionary extraction process devised and developed over the past 10 years by Dr. Peter F. Wilde.

The system of extraction uses a new family of benign **non-CFC** gaseous solvents (R134a) "Florasol" developed by many international chemical companies to replace chlorinated fluorocarbons (CFCs) which are being phased out under the terms of the Montreal Convention. In the late 1980s Dr. Wilde first recognized the unique properties of these new hydrofluorocarbon refrigerants as solvents for the extraction of aromatic oils and biologically active components from plant materials, for use in the food, pharmaceutical, aromatherapy and perfume industries.

Safety

On December 14, 1996 the Scientific Committee for Food of the European Commission approved an amendment to "The Solvents Directive", to include "Florasol" (R134a), the solvent upon which the process is based, as an acceptable solvent for the extraction of flavors for use in food. "Florasol" (R134a) is intrinsically safe and has also been approved by the FDA as a propellant for inhalers used by asthma sufferers. An application for the use of "Florasol" (R134a) as a flavor extractant in the USA is presently being considered by the FDA, and approval is expected in 1998.

This breakthrough has been achieved in an era during which consumers and legislators worldwide are increasingly sensitive to the potential hazards of solvent residues.

Advantages

The solvents are **non-flammable, non-explosive and non-toxic**. With the aforementioned virtues the process is extremely safe for operators and the end products surpass the most stringent quality and safety standards.

The solvent are ozone friendly and present absolutely no hazard to the environment.

Extraction occurs at or below ambient temperatures,hence there is no thermal degradation of the products.

There is no vacuum distillation required to remove the solvents, so highly volatile notes are retained and the end products more closely represent the natural state.

There are low energy requirements for the process, using very little electricity and no fossil fuels, coal nor wood. There are no “waters” to dispose of. The exhausted plant material can be composted, returned to the land or fed to farm animals.

The extraction process utilizes the selectivity of the solvent and produces a free flowing clear oil free of waxes

Florasols are:

- *never heated above room temperature
- *never exposed to acids
- *complete with all their volatile, fragrant and active components
- *approved for quality by many major pharmaceutical companies
- *manufactured with out the need of alcohol
- *entirely free of hexane and other toxic residues
- *approved for use in the European Community

The revolutionary process:

- *is very gentle
- *emits nothing into the environment
- *does not use toxic solvents
- *is not hazardous
- *requires little energy
- *does not use water
- *recycles all resources
- *extracts no waxes or fats
- *produces no effluent

The process developed by Dr. Wilde is the most environmentally friendly way of preparing fine, pure natural oils from plants

