9805923-1

IN THE MATTER OF a Singapore Application corresponding to PCT Application PCT/EP97/02815

I, Stephen DRANE BSc PhD BDÜ,
c/o Europa House, Marsham Way, Gerrards Cross, Buckinghamshire, England, do solemnly and sincerely declare that I am conversant with the English and German languages and am a competent translator thereof, and that to the best of my knowledge and belief the following is a true and correct translation of the amended sheet of the PCT Application filed under No. PCT/EP97/02815.

Date: 9 November 1998

S. DRANE
For and on behalf of RWS Group plc

* C L M S *

We claim:

1. A process for preparing epoxides from olefins and hydrogen peroxide in liquid phase using an oxidation catalyst based on titanium or vanadium silicates with a zeolite structure, the concentration of hydrogen peroxide in the reaction mixture being in the range from 0.05 to less than 1% by weight during the reaction, wherein the sources of hydrogen peroxide employed for the epoxidation are technical, unpurified hydrogen peroxide solutions containing from 0.1 to 10% by weight of hydrogen peroxide.

2. A process as claimed in claim 1, wherein the sources of hydrogen peroxide employed are extraction solutions which contain hydrogen peroxide and derive from an anthraquinone working solution for preparing hydrogen peroxide.

3. A process as claimed in claim 1, wherein the sources of hydrogen peroxide employed are streams or residues which contain hydrogen peroxide and derive from a hydrogen peroxide distillation.

4. A process as claimed in claim 1, wherein the sources of hydrogen peroxide employed are extraction solutions which contain hydrogen peroxide and derive from fermenter broths or from enzyme-containing mixtures.

5. A process for preparing propylene oxide from propene and hydrogen peroxide or hydroperoxides as claimed in any of claims 1 to 4.