



# CATI

Center for Advanced Technology and Innovation

## Stable, Water-based, Microemulsions for AgChem Formulations

**Description:** Researchers at International Specialty Products, a global chemical company located in Wayne, NJ developed a delivery system for agriculturally active chemicals. More particularly, the invention relates to a microemulsion of a difficult to dissolve agricultural chemical and concentrates for producing such microemulsions.

### Patent Listing:

1. **US Patent No. 5,300,529**, Issued 04/05/94, "Stable, clear, efficacious aqueous microemulsion compositions containing a high loading of a water-insoluble, agriculturally active chemical"
2. **US Patent No. 5,338,762**, Issued 08/16/94, "Water-based microemulsion formulation of a carbamate ester"
3. **US Patent No. 5,389,688**, Issued 02/14/95, "Water-based microemulsion formulations"

**Market Potential:** Insecticides, fungicides

**Benefits:** Provides solutions to the problem of providing stable macroemulsions of insoluble agricultural chemicals in the aqueous systems. These inventions exhibit long shelf life in the microemulsion form and that provides a special advantage for consumer end users and those end uses wherein dilution of a concentrate at the site is unfeasible or undesirable.

### Applications:

- Agricultural Market for Producers of Herbicide and Pesticide Formulations
- Consumer Market for Producers of Lawn Care Products
- Environmental Groundwater Remediation Firms

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