Some of these is on should be done!

Applied Sciences Current Jobs Feb '73

## SPECIALTY PRODUCTS

### ANALYTICAL CHEMISTRY

#### SCAS Biodegradation Testing

- Dielectric Fluids (In progress) - MCS 1239, MCS 1288, MCS 1311, MCS 1312, MCS 1355, MCS 1356B, MCS 1369, MCS 1342*, Dow Corning 200 and Dow Corning 705.
- Die Encapsulation Solvents (In progress) - MCS 1236, Lipinol T, and Santosol 300.
- Phosphate Esters (In progress) - NPD Phosphate, CPD Phosphate, Hexylphenyldiphenyl Phosphate and Benzylphenyldiphenyl Phosphate*.
- Heat Transfer Fluid (In progress) - Therminol 55, Therminol 88, and HQ-40.
- Scheduled for SCAS Testing - MCS 1238, o-, & p-Chlorobenzylethyl Benzene, t-Butyl Phenyl Diphenyl Phosphate, NPD and CPD Phosphates (Synthetic Mixtures), MCS 1284, Santotrac 70 and Scripset 808.*

#### Toxicology Support Studies (Tissue Residues)

- Brominated Quatraphenyl - 14 Wk Rats (In Hand).
- Chlorinated Quatraphenyl - 14 Wk Rats (In Hand).
- MCS 1168A - 90 Day Rats (@ IBT). Industrial Bio-Test
- Santosol 100 (MCS 1175) - 90 Day Rats (@ IBT).
- MCS 1207 - 90 Day Rats (@ IBT).'
- Therminol 55 - 90 Day Rats (@ IBT).
  - Chicken Reprod. (@ IBT).
- Therminol 66 - 6 Wk Rats (In Hand).
  - Chicken Reprod. (@ IBT).
- NCP - 90 Day Rats (In Hand).
- $N_2CP$ - 90 Day Rats (In Hand). MONS 092764
- Pydraul 30E - 90 Day Rats (In Hand).
- Pydraul 90E - 90 Day Rats (In Hand).

#### Research, Development, Manufacturing and Outside Studies

- MCS 1238 - Development of an analytical method for determination of, in gold fish.
- Round Robin - Task Force for Analysis on Flexible Barrier Material ASTM Sub-Committee F 2.30.

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## SPECIALTY PRODUCTS (CONT'D)

### INSTRUMENT RESEARCH

Capacitor Test Lab - Provide assistance and maintenance.
- Fabricate new components.

### PHYSICAL CHEMISTRY

HB-30 - Thermal conductivity and densities.*

MIPB - Vapor analysis report for NCR work.

Triphenyl Phosphate - GC analysis for trace pyrophosphate.

Aroclor 1242, 1248, 1254 - Report on GC comparison of present Monsanto Aroclor to old Monsanto Aroclor (1942-1970).

Aroclor 1016 - GC data for ASTM procedure.*

UCON 700 - Characterization of GPC.*

Santowax O - Vapor pressures.
- Montar 9 viscosities.

o & p-Cyclohexyl Biphenyl - Process thermal stabilities.

150 Neutral Oil and DC-200 - LC method for biodegradation tests.

p-Cumylphenol - Vapor pressures for distillation step.

Dye Carriers - Loss from polyester fibers via TGA.

Exploratory Jet Lubes - LC method for impurities.

Cyclohexyl Phenol - GC analyses*

### SPECTROSCOPY

Skydrol 500 - Identify pump deposit.*

$N_2CP$ - Phenol content by UV fluorescence.*

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Santosol 100 - Determine isomer composition.*

Pydraul 90E - Identify valve deposits.
- Si and Al in product.

Rankine Fluids - Study pyrolysis stability.

Pentachlorophenol - Impurities in chlorophenol reaction mass.
- Develop improved method to determine dioxin content in product.
- Identify impurities in Reichold product.*

## SPECIALTY PRODUCTS (Cont'd)

### SPECTROSCOPY (Cont'd)

Competitive Product Identification - Lubrizol 5162.
- Dowtherm H and J.
- Textone Adhesive.*

Therminols - Analyze Dowtherms for chlorodibenzofurans.
- Identify low boilers in Therminol 44.*

Phenyl Phenols - Identify impurities.
- Identify reaction byproducts.*

Water/Glycol Fluids - Identify additive package.

Diphenyl Ether - Identify impurities from catalyst regeneration.*

### STATISTICS AND COMPUTER SCIENCE

Aroclor Products - Statistical support of biodegradation and toxicology program.

Wet Strength Resin - Experimental design for optimizing operating conditions for making RPC 1011. Analysis of existing data. Regression and contour plots.

$N_2C$ Phosphate - Analysis of data from experimental design. Set up to optimize washing of $N_2C$ phosphate in the Pilot Plant.

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