NEW PRODUCTS AND EQUIPMENT

Infrared Analyzer Means Push Button Analysis

PUSH button analysis is now a reality according to the Perkin-Elmer Corp. which has recently completed a Multi-Component Infrared Analyzer. The instrument can analyze up to 10 components in a sample in 10 minutes. Results of the analysis are presented on an electric typewriter of a punched card device. Instrument time is shortened by almost 50% compared with the usual manual spectrometer analyses. The new device is applicable wherever there is a need for conducting large numbers of routine analyses of more than one component in a mixture. Since the analytical data is presented in a form ready for automatic computing, the operator has little to do except push a button.

The instrument consists of a standard single beam infrared spectrometer attached to a control unit which sequences 10 predetermined analytical wave lengths into the device. The wave lengths can be selected dependent upon the components to be analyzed. The sample cell is automatically shifted into and out of the infrared beam, to give quantitative readings. Complete details of the analyzer are available from Perkin-Elmer. **PE1**

Automatic analyzer in operation. Operator selects ten different analytical wave lengths by means of the potentiometers mounted on the master control panel. The selected wave lengths are then fed into the control unit, which controls operation of the instrument for the analysis

Eastman Offers BHT as Food Antioxidant

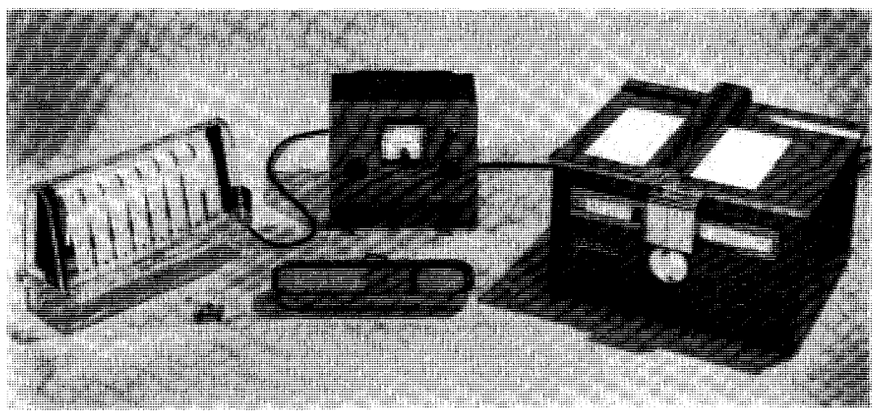
Eastman Chemical Products has applied to the FDA for approval of BTH (Butylated hydroxytoluene) as a food grade antioxidant. The effectiveness of BHT as an antioxidant has been known for some time but previously these properties have been utilized in petroleum processing. Eastman has now completed a toxicity testing program and says that the evaluations indicate that the material should be safe for use in foods.

Eastman is making a combination of BHT and BHA, butylated hydroxyanisole, available to the food industry as Tenox IV. The combination of the two antioxidants results in antioxidant preparation, which has a greater degree of antioxidant activity than either of the components alone.

Tenox IV is composed of 20% BHT and 20% BHA dissolved in vegetable oil, and is intended for use in food products made from lard. **PE3**

Electrophoresis Coupled with Automatic Curve Drawing Device

Electrophoresis system organized around an automatic curve drawing integrator. The developed paper strips are placed in the photoelectric unit shown, right, which translates dye intensity on the strip into a pen drawn curve of component concentration. The complete system consists of a constant voltage or constant current power supply for the electrophoresis cells. The cell units, of transparent plastic, have detachable racks which can be opened flat for oven drying of the strips. Stainless steel drying trays are included to hold the paper strips PE2



Bread Oven Thermometer

A recording thermometer designed to pass through a traveling bread oven or other heated conveyors is available from the Bristol Co. The self-contained instrument is no higher than a loaf of bread when in operating position and can be placed next to a pan of baked goods and allowed to pass through the oven. A continuous record of the temperature through the oven is recorded on circular recording paper. **PE4**

Water Soluble Anticoagulant Rodenticide

Pivalyn, a water soluble anticoagulant rodenticide formulated in a sugar base for exposure as a liquid bait, has been released for general sales following extensive field tests. The rodenticide was developed and tested in cooperation with the U.S. Fish and Wildlife Service.

Pivalyn, the sodium salt of 2 pivalyl-1,3-indandione, incorporates the features of safety and effectiveness of the slow acting, low dosage anticoagulants which have been previously available in dry cereal type baits.

When dissolved in water the end concentration of the rodenticide is only 50 parts per million. The large amounts of water required by rodents provides for the full effectiveness of this low level concentration. **PE5**

Surface Active Agent

A polyethylene glycol alkylphenyl ether nonionic surface active agent, Nonic 300, is available from Sharples Chemicals Inc. A wetting agent, detergent and emulsifying agent, the compound is soluble in water, alcohols, aromatic hydrocarbons, and other organics. The manufacturers suggest it as useful as an emulsifier in agricultural sprays. **PE6**

See coupon, page 703, for further information