New Products and Equipment . . .

Du Pont Producing Calcium Cyclamate

A nonnutritive sweetening agent, "Cylan" calcium cyclamate, is now available in commercial quantities from the Du Pont company. Calcium cyclamate (calcium cyclohexylsulfamate) has been in commercial use as a sweetening agent since 1950. The Du Pont product is in full-scale commercial production in a new unit of the James River Works, operated by the company's Grasselli Chemicals Department, near Richmond, Va.

This new unit provides "Cylan" to the food processing, canning, and beverage industries for use in foods and beverages for special diets. "Cylan" can be used to improve the taste and palatability of many low-calorie foods in weight-reducing diets and is also useful in certain diabetic foods where it is desirable to restrict carbohydrate intake.

Calcium cyclamate can be used in cooking, baking, and canning without loss of sweetness. It is supplied to industry in the form of readily soluble white crystalline granules, and is available in 100-pound drums. **PE1**

CSC Adds Three New Surface-Active Agents

Commercial Solvents Corporation has three new surface-active agents available in commercial quantities. Known as Alkaterge-A, Alkaterge-E, and Alkaterge-T, the three chemicals are closely related to CSC's well-known cationic surface-active agent, Alkaterge-C, which has been widely used since 1944.

According to CSC, the new Alkaterges, which differ somewhat in individual physical properties, can be expected to find uses as auxiliary emulsification agents, dispersing agents, spreading agents, acid acceptors, and corrosion inhibitors.

The new chemicals are a group of a long line of industrially useful chemicals derived from the nitroparaffins. CSC's new plant for the production of the nitroparaffins, now being erected at Sterlington, Louisiana, is scheduled to go on stream in August. **PE2**

Fertilizer Granulation Process

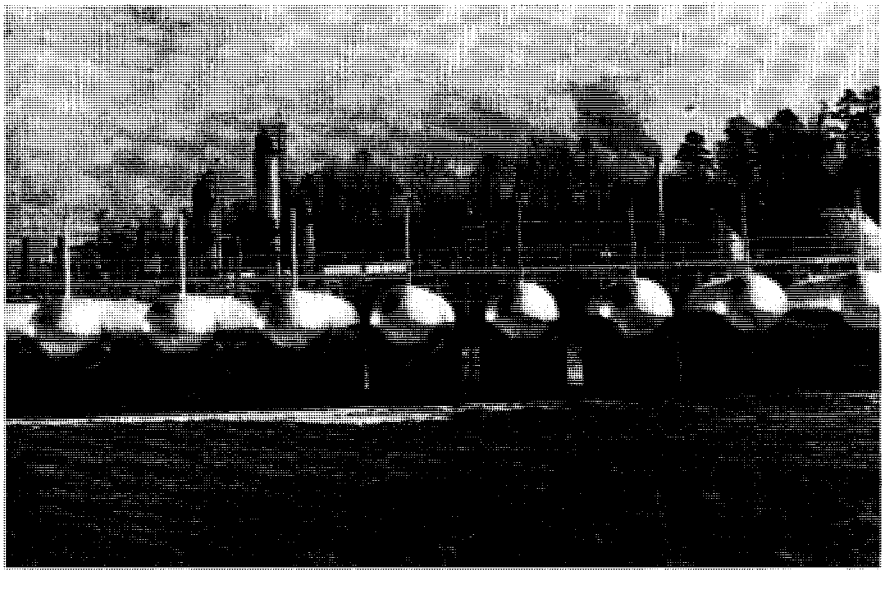
A fertilizer granulation process which reportedly cuts formulation costs considerably has been developed jointly by Spencer Chemical Co. and the Ark-Mo Plant Food Co.

In experimental runs, Ark-Mo has been successful in producing 14-14-14 which derives all the nitrogen from a 37 per cent nitrogen solution, departing from the conventional procedure in which it was necessary to obtain some of the nitrogen from more expensive ammonium sulphate.

Accurate control is key to the process. An intricate panelboard records flow of ingredients together with temperatures at various locations in the system. Raw materials are weighed separately by gravimetric feeders. A conveyor belt and elevator carry materials to screens and crushers, where oversized are ground to pass a 10-mesh screen.

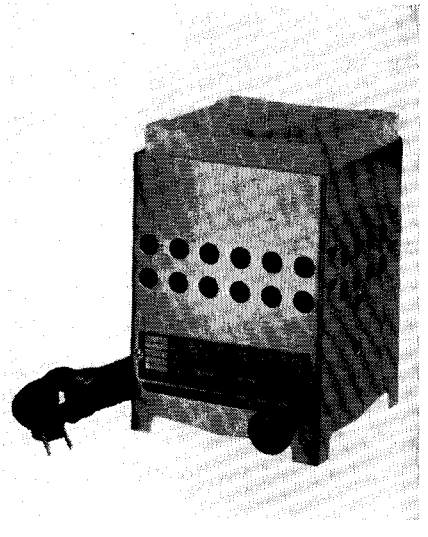
The liquids are added in an ammoniator-granulator, the only equipment of special design in the Ark-Mo plant. All nitrogen is derived from ammoniating solutions. From the ammoniator, the material flows to dryer, cooler, and finished product screens. Fines are collected and weighed back into the system. High-nitrogen grades are coated with diatomaceous earth on the way to storage. Low-nitrogen grades go direct from process to storage by a conveyor belt. **PE3**

Ammonia or Gas Storage



New bulk plant of the Mississippi Chemical Corp. at Yazoo City, Miss. The tank storage area was designed and built by Roney Inc. The tanks, with a working pressure of 250 lb. per sq. in., can be used for storage of either anhydrous ammonia or natural gas. Piping manifold assembly is designed so that tanks can be loaded or unloaded in groups of 3, 6, 9, 12, or individually as required. Roney specializes in design and construction of ammonia equipment **PE6**

Lab Heater



Precision Scientific Co. has redesigned its electric laboratory heater by adding a built-in rheostat. Originally developed for nitrogen determinations, the heater is now used for such other laboratory tasks as distillations, evaporations, extractions, and digestions, as well as many utility applications. The unit is housed in a corrosion-resistant case of stainless steel **PE4**

Ammonia Leak Detector

A new pocket-size device for detecting ammonia leaks is being offered to ammonia users by Nitrogen Division, Allied Chemical & Dye Corp.

The device is a booklet containing paper strips impregnated with phenolphthalein. By tearing a strip from the book, saturating it with water and holding it near suspected leaks, the user can detect the presence of ammonia when the color of the paper turns red. **PE5**