

# New Products and Equipment...

## Antifoams

Hodag Chemical announces a series of "instant" antifoams for food, chemical, and industrial processing situations. The antifoams come in flake or powder form. They are simply added to water and immediately emulsify.

A 25-lb. bag of "instant" antifoam could make the equivalent of ten 55-gallon drums of conventional liquid antifoam. The antifoam is packaged in the exact weight and quantity that the user needs for making an emulsion.

For further information, contact Dept. A&F, Hodag Chemical Corp., 7247 N. Central Park, Chicago 45, Ill.

## Carrier for Concentrates And Wettable Powders

Zeolex 7A is being introduced by J. M. Huber Corp. for use as a carrier for pesticide concentrates and wettable powders. Among the advantages over other silica and silicate carriers, the company claims, are: reduced production cost, cleaner-running mills, fewer shut-downs, and finer grinds. The company says wettable powders formulated with Zeolex according to WHO and GSA specifications yield higher suspensions and higher re-suspensions after tropical storage. It also says that surfactant levels can be minimized for additional economy and that substantial use of low-cost diluents is possible with Zeolex 7A.

A neutral hydrated silica, Zeolex 7A has an average particle diameter of 0.02 microns.

Further information can be obtained by writing Dept. A&F, J. M. Huber Corp., 100 Park Ave., New York 17, N. Y.

## Instrument Speeds Moisture Analysis

The new Schlumberger NMR high-speed moisture analyzer (Model 104) makes quantitative determinations of moisture content in a wide variety of solids, such as wood pulp, chicle, syrups, cotton, and cereals. Other products that can be effectively analyzed by the Model 104 are tobacco, soap, polyethylene, geological cores, clay, and fibrogen. It carries out this analysis in from 30 seconds to four minutes, as opposed to the four hours required by the oven or similar conventional methods.

Operating on the principle of nuclear magnetic resonance (NMR), the Model 104 is both a research and production instrument. It is not only fast, but also highly stable and accurate. Once calibrated, it can be operated by an unskilled technician. Samples analyzed by this method are not altered in any way, but are available for further tests or return to stock. Moreover, the large sample size (40 cc.) gives better representation.

For further information, write Dept. A&F, Schlumberger Well Surveying Corp., Ridgefield, Conn.

## New Form of Piperazine

Piperazine, an intermediate used in the production of tranquilizing drugs and deworming agents, is commercially available in a free flowing anhydrous, crystalline form from Union Carbide Chemicals.

Ease of handling and a purity of 98% are the principal advantages of this flake form.

For technical data, write Dept. A&F, Union Carbide Chemicals Co., 30 East 42nd St., New York 17, N.Y.

## C-14 Labeled Plant Hormone

The plant hormone naphthalene acetic acid is among several new carbon-14-labeled compounds available from Volk Radiochemical. The company is also offering a carbon-14-labeled ascorbic acid. Several compounds labeled with sulfur-35 are also available. Further details can be obtained from Dept. A&F, Volk Radiochemical Corp., 5412 N. Clark St., Chicago 40, Ill.

## Spray Hose

A line of spray hose for high, medium, and low-pressure service is being introduced by Boston Woven Hose & Rubber Co. The low pressure hose will handle all types of weed-killing or insecticide solutions. Descriptive literature is available from Dept. A&F, Boston Woven Hose & Rubber Co., P. O. Box 1071, Boston 3, Mass.

## Higher Purity Sodium Sulfite for Laboratory Control Work

Normal sodium sulfite, important in laboratory control in food processing, is available in a higher purity for more rigid control of impurity-sensitive operations. It is manufactured in the

Fisher Certified grade, with each lot individually analyzed. Typical analysis shows 0.01% chloride; 0.0001% arsenic; 0.0010% heavy metals (as Pb); 0.002% iron; 0.005% soluble matter; and an assay of 58.5% SO<sub>2</sub>. Write Dept. A&F, Fisher Scientific Co., 308 Fisher Bldg., Pittsburgh 19, Pa.

## Two-Minute Soil Test Of Moisture and Density

A radioactivity instrument, the "d/M-Gauge," recently announced by Nuclear-Chicago Corp., offers a way for agronomists to determine the moisture content and density of various soils in two minutes.

The instrument is operated by inserting a probe containing a radioactive source into a soil medium, and a radioactive counting device (scaler) measures the amount of "scatter" produced.

A separate probe is provided for moisture or density determination; the moisture probe contains a radioactive source of fast neutrons; density probe, a cesium-137 gamma ray source. Either of the probes may be used interchangeably with the same scaler. The probes measure a spherical volume of soil with an average diameter of 14 in. Moisture or density measurements can be made at any soil depth, ranging from the top 12 in. to 60 ft. below the surface. Accuracy is within 2 lb./cu.ft. for density determinations from 50 to 150 lb./cu.ft. Moisture determinations are accurate within 3/4 lb./cu.ft. from 0 to 100% moisture content.

Complete details by writing Dept. A&F, Nuclear-Chicago Corp., 229 West Erie St., Chicago 10, Ill.

## Spray Stops Cannibalism In Poultry

Cannibalism in poultry can be prevented with a spray distributed under the trademark Thram.

Developed by S. B. Penick & Co., Thram is so distasteful to poultry that desire to pick is reduced. In laboratory and farm tests on over 250,000 birds of all ages, picking stopped for two weeks to three months.

Thram is said to be harmless, nonflammable (permitting use in brooders), and effective even with confirmed pickers. For further information write Dept. A&F, S. B. Penick & Co., 50 Church St., New York 8, N.Y.