

New Products and Equipment . . .

Low-Salt Meat Extract Substitute

A meat extract substitute which contains less than 0.5% salt is now available in both paste and powder form from Vico Products Co. Approved for use in federally inspected plants, these products are said to save up to 60% over the cost of meat extract. As much as 75% of the amount of meat extract used in formulations for sauces, gravies, bouillons, and the like, has been replaced with this salt-free meat extract substitute and extender without changing flavor, the company says.

Both dry and paste products contain high levels of total nitrogen, amino nitrogen, peptones, peptides, and the B complex vitamins and growth factors recovered from the antolysis (enzymatic hydrolysis) of brewers' yeast.

Samples of the material with data sheets are available from Dept. A&F, Vico Products Co., 415 W. Scott St., Chicago, Ill.

18% Defluorinated Phosphate

Coronet defluorinated phosphate was increased in analysis to 18% phosphorus, effective April 1, the company announces. CDP has previously been a 17% product. The company says that the 18% product means that feed manufacturers will benefit from a lower delivered cost per unit of phosphorus. The new analysis CDP guarantees 31% minimum and 34% maximum calcium, with 0.18% maximum fluorine. Screen guarantee is all through 14 mesh; 80% on 200 mesh, $\pm 5\%$.

Further data are available from Dept. A&F, Smith-Douglass Co., Norfolk, Va.

Anticaking Agent

Attacote is a fine-particle-size, sorptive attapulgus clay product specifically produced by Minerals & Chemicals Corp. as an anticaking agent for fertilizers. Field tests in the form of actual commercial applications during the past year indicate that the material is superior to many agents currently used for coating prilled, granular, and explosives-grade ammonium nitrate; ammonium sulfate; agricultural grades of urea; and granular high analysis fertilizers.

A magnesium aluminum silicate, Attacote is inert and nontoxic. Typical properties and chemical analyses of Attacote and Attacote "C" (a modified grade which meets an ammonia release specification of 0.025 gm. NH_3 per 25 gm.) are as follows:

| | Attacote | Attacote "C" |
|---|-------------|--------------|
| Average particle size (microns) | 8 | 8 |
| Ultimate particle shape | Needle-like | Needle-like |
| Oil absorption (ASTM D281-31) | 79.8 | 79.8 |
| Free moisture, 220° F. wt. % | 2.0 | 2.0 |
| Ignition loss, 1800° F. wt. % | 7.0 | 7.0 |
| pH | 8.5 | 5.5 |
| Color | Cream | Cream |
| Specific gravity | 2.47 | 2.47 |
| Residue 325 mesh (wet) wt. % | 2.0 | 2.0 |
| Bulk density (packaged condition) lb./cu. ft. | 16 | 16 |
| Surface area, sq. meters/gm. | 125 | 125 |

Attacote is available in 50-lb. multi-wall plain or asphalt-laminated paper bags. Further information may be obtained from Dept. A&F, Minerals & Chemicals Corp. of America, Menlo Park, N. J.

Methylamines in Small Cylinders

Rohm & Haas is offering mono-methylamine, dimethylamine, and trimethylamine anhydrous in laboratory and developmental sized 5- and 25-lb. cylinders. These supplement the currently available 50- and 100-lb. cylinders. The methylamines are used as intermediates for agricultural pesticides and many other materials.

Further data and prices are available from Dept. A&F, Special Products, Rohm & Haas Co., Washington Square, Philadelphia 5, Pa.

Applicator for Granulars

An applicator for granular soil insecticides has been announced by Noble Mfg. Co.

Unit's main element is 50-lb.-capacity hopper that fits all planters, listers, or seeders, with one hopper for every two or three rows being worked. Granule-filled hopper is powered by the drive shaft of the planter, lister, or seeder. By means of flexible steel drop tubes in the hopper bottom, granules are directed into proper position for effective kill. So, with one pass over the field, the farm operator combines planting and pesticide application.

A metering dial gives operator positive control of application rate, whether 8 oz. or 50 lb. per acre. Determining application rate is said to be a simple procedure with all 15-30, 24-48, or 30-60 granular materials.

Chemical-resisting materials are used throughout the unit. Control slide is stainless steel. Entire hopper is painted with Epon paint to prevent corrosion.

More information is available from Dept. A&F, Noble Mfg. Co., Sac City, Iowa.

Polyamino Acids

Polyamino acids, a series of biochemicals recently synthesized, are now available on a commercial scale.

These compounds are finding great interest in many fields of research; especially in protein studies and enzyme and blood chemistry.

More information is available from Dept. A&F, Mann Research Laboratories, Inc., 136 Liberty St., New York 6, N. Y.

Fungicide Intermediate

Beta-S, a liquid dicarboxylic anhydride is being introduced in development quantities by Heyden Newport Chemical Corporation.

Useful in curing epoxy resins, Beta-S (dimethyl substituted butenyl tetrahydro phthalic anhydride) has a combination of double-bond and anhydride functionality indicating it may also have potential as an intermediate for preparing fungicides. Readily reactive, the product will undergo hydrolysis, esterification, amidation, imide formation, reduction, aromatization, and oxidation.

One-lb. samples and further information are available from Dept. A&F, Market Development, Heyden Newport Chemical Corp., 342 Madison Ave., New York 17, N. Y.

Applicator

An applicator for distributing Terraclor fungicide is announced by Gustafson Mfg. Co. The unit may also be used to apply dust and granular pesticides and dry fertilizers.

Mounted on the tool-bar of a tractor or planter, it meters the material through tubes to a deflector shield which distributes the chemical evenly over a 10-in. band centered on the furrow. A double gang of rotary hoes mixes the chemical with the soil to a proper depth. Positive feed control permits use of materials of varying concentration.

Additional information can be obtained by writing Dept. A&F, Gustafson Mfg. Co., Inc., P. O. Box 2409, Corpus Christi, Tex.