

# New Products and Equipment . . .

## Single-Gusset Bag

A single-gusset, sewn-valve multi-wall bag has been introduced by Bemis Bro. Bag Co. Difficult to distinguish from the two-gusset multi-wall bag when filled, it stacks uniformly and can be easily palletized.

Advantages of the new design include additional usable space created by the flat tube side, more room for product flow during filling operations, and reduction of blowouts. The product fed into the bag does not back up and clog the filler spout; packaging time and labor requirements are reduced.

The extra space created by the flat tube side often permits utilization of a shorter bag and reduces the cost to the manufacturer of bagged products. The Bemis single-gusset is effective for packaging fertilizers and insecticides.

Further information is available from Dept. A&F, Bemis Bro. Bag Co., 408 Pine St., St. Louis 10, Mo.

## Belt Feeder

A belt feeder with a high degree of accuracy has been designed for fertilizers by Barber-Green. Capacities range from 5 to 550 tons per hour.

Through the medium of a gear-motor and a roller chain drive, constant belt speed can be attained, with capacity controlled by a quadrant-type control gate equipped with a fine screw adjustment. Variable belt speed may be obtained through a variable speed reducer and roller chain arrangement, working in conjunction with a quick-adjusting quadrant gate.

This permits adjustment of capacity by means of varying the gate opening, by alteration of the belt speed, or both. Manual controls or remote controls may be installed. Thus, a combination of two or more F-8 feeders offers total and proportional control of aggregate feed, when each is equipped with the remote control and variable speed reducer drive.

Information on the F-8 feeder may be obtained from Dept. A&F, Barber-Green Co., 400 N. Highland Ave., Aurora, Ill.

## Mothproofing with Dieldrin

Hart Products Corp. announces the commercial availability of Larvatex, an emulsifiable concentrate of dieldrin, for permanent mothproofing of wool, when applied in the dyebath to wools, worsteds, and hair fibers. It is said to give permanent mothproofing protection durable to repeated laundering

and dry cleaning. It is said to meet the requirements of the ASTM Permanent Mothproofing standards and the standards of the USDA.

Full technical information is offered by Dept. A&F, Hart Products Corp., 1440 Broadway, New York, N. Y.

## Instrument Widens Field of Gas Chromatography

Burrell Corp. has introduced a new research model Kromo-Tog for the application of gas and vapor chromatography to wider areas than before possible.

With the model K-5 Kromo-Tog, scientists can analyze materials that boil at 475° C. or higher, including fatty acids, and other compounds containing as many as 36 carbon atoms, the company says.

Model K-5 is available with one or two complete systems. A two-system instrument may have either one or two recorders. The two-system model has separate columns, detectors, controls and fraction collectors for simultaneous analysis of two separate samples.

One part per million, or under controlled conditions even fractional parts per million may be detected. Other features include independent temperature control of both columns and detectors; rapid heating and cooling; proportioning heat control; specially designed glass or metal columns; an integral five-place fraction collecting system for each column; sensitive recorders and a modern desk-type metal cabinet 43 in. deep, 44 in. wide, and 69 in. high.

For more information, write Dept. A&F, Burrell Corp., 2223 Fifth Ave., Pittsburgh 19, Pa.

## Ethylenediamines

Ames Laboratories, Inc., announces availability of a group of ethylenediamine derivatives for use in the preparation of chelating agents, insecticides, and many other special organic chemicals. These materials are water-white, amine-like in odor, and of high purity.

The amines available are:

N,N'-dimethyl-N,N'-diethyl ethylenediamine;

N,N-dimethyl-N',N'-diethyl ethylenediamine;

N,N,N'-triethyl ethylenediamine;

N,N-dimethyl-N'ethyl ethylenediamine;

N-methyl-N,N',N'-triethyl ethylenediamine; and

N-ethyl-N,N',N'-trimethyl ethylenediamine.

For more data, write Dr. Rosenman, Dept. A&F, Ames Laboratories, Inc., 132 Water St., South Norwalk, Conn.

## Machine for Laying Plastic Mulch

A film-laying machine that makes possible rapid mulching with black polyethylene film has been developed by the Bakelite Division of Union Carbide. The film can be put down at the rate of about one acre per hour with the machine.

Built with a number of parts from conventional cultivators, the machine can be used with any farm tractor that has a standard three-point hitch. Two front disks open small furrows in the soil into which the film's edges are pressed by rubber-tired wheels. Rear disks then move soil back over the film's edges to keep the film firmly in place. A steel pressure roller presses the film to the soil. Holes are then cut in the film and planting is done through the holes.

More data are available from Dept. A&F, Bakelite Co., Division of Union Carbide Corp., 655 Madison Ave., New York 21, N. Y.

## Three Fungicides for Natural Fibers

Three new industrial fungicides, designed to lengthen the service life of fabric and cordage by adding increased fungus resistance to natural fibers, are available from Nuodex Products Co., a division of Heyden Newport Chemical.

Identified by the trade names Fungitrol 25, Fungitrol 50, and Fungitrol 100, the new colorless, odorless fungicides, according to W. J. Houston, Nuodex vice president of marketing, "should greatly assist natural fibers in retaining their favorable competitive position with synthetic fibers in the textile and cordage industries."

Fungitrol 25, a new solubilized complex of cupferron, may be applied from solvent solutions, in combination with other textile treating materials.

Fungitrol 50, a synergistic zinc mixture, is said to be more active than zinc naphthenate on a zinc metal basis and useful on cordage as well as on fabrics.

Fungitrol 100, an antimicrobial quaternary ammonium compound, is effective at low concentrations and gives excellent permanence.

Further information can be obtained from Dept. A&F, Nuodex Products Co., Elizabeth, N. J.