

New Products and Equipment . . .

Labelled Compounds

Merck & Co., Ltd., has announced the addition of several compounds to its list of those available in radioactively labelled forms. Among them are:

ISOTOPES

Potassium 2-ketogluconate-1-C¹⁴
Potassium 2-ketogluconate-6-C¹⁴
Sodium propionate-3-C¹⁴
DL-Asparagine-2,3-C¹⁴
D-Galactose-1-C¹⁴
D-Glucose-6-C¹⁴
Sucrose-C¹⁴ (uniformly labelled)
Maleic anhydride-2,3-C¹⁴

DEUTERATED COMPOUNDS

Tert. butyl alcohol-d₉
Tert. butyl chloride-d₉
3-Pentanone-d₁₀
Ethane-d₆
Ethylene-d₄
Methyl acetylene-d₃
Methyl acetylene-d₄
Propadiene-1,1-d₂
Dimethyl-d₆ mercury

More data are available from Dept. A&F, Merck & Co., Ltd., P. O. Box 899, Montreal 3, Canada.

Antioxidant for Fish Meal

Eastman Chemical Products, Inc., offers its Tenox BHT (butylated hydroxytoluene) for use in reducing heating of menhaden scrap fish meal. According to the company, BHT is applied to scrap in a 1% concentration based on the oil content of Atlantic Coast menhaden meal. Further information is available from Dept. A&F, Eastman Chemical Products, Inc., 260 Madison Ave., New York 16, N. Y.

Plastic for Silos

Visking Co. is offering black polyethylene film to farmers for use in constructing low-cost silos. According to studies made at Purdue, the film will enable a farmer to ensile as much of his forage crop as his land can produce.

Silos of plastic can be constructed close to the harvesting site, reducing the time in which silage is exposed to air. The Purdue experiments indicate that the silages so made were good, as determined by acid development, odor, appearance, and animal acceptance.

The 6-mil film comes in 100-ft. lengths in widths of 20 or 24 ft. Two men can cover a stack 20 ft. wide and 100 ft. long, which would contain about 80 tons of grass silage,

Visking reports. Such a silo can be built in one day.

Further data are available from Dept. A&F, Visking Co., 75 E. Wacker Drive, Chicago, Ill., or 18 E. 49th St., New York 17, N. Y.

Multipurpose Farm Machine

Soon to be placed in mass production is the Wonsover, a farm machine that, it is said, will fertilize, apply chemicals, prepare the soil, and seed.

The 12-ton machine can completely prepare and seed one acre an hour. In the front of the machine, which is towed by tractor, are two bins for lime or fertilizer and two tanks for weed killers, pest killers, or liquid fertilizer. Provision can be made for anhydrous ammonia. The device at the back will apply preemergence herbicide.

Further information is available from Dept. A&F, Norton Portland Corp., 53 Exchange St., Portland, Me.

Thiuram

Aceto Chemical Co., Inc., announces availability of a micronized 99.5% thiuram fungicide. It is known chemically as tetramethyl thiuram disulfide. Further data are available from Dept. A&F, Aceto Chemical Co., Inc., 40-40 Lawrence St., Flushing, N. Y.

Hand Duster

A hand duster that uses the fluidization principle has been developed at the University of California, Davis. It is intended principally for use in applying insecticides and fungicides in greenhouses, but the compressed-air-powered duster can also be used elsewhere.

The duster can be operated by a 1- to 3-hp. electric motor. With 80 lb. jet pressure, the dust cone produced is about 6 ft. in diameter at 15 ft. from the nozzle. A rose grower found he could dust a 7000-sq. ft. glass house in 20 min. with the duster, compared with more than an hour using a liquid spray.

More information is available from Dept. A&F, College of Agriculture, UNIVERSITY OF CALIFORNIA, Davis.

Fertilizer-Herbicide Mix

Fisons, Ltd., has introduced a fertilizer-herbicide mixture for control of wild oats in sugar beets. The product, to be sold in England this season, is a mixture of Fisons 31 fertilizer and Tecane herbicide. Application is

made 14 days before drilling the sugar beet seed and is followed by two or three seed bed cultivations to a depth of 5 or 6 in. In field trials, the mixture has given an average of 77% kill of wild oats, with many results as high as 95%, the company reports.

Further information is available from Dept. A&F, Fisons, Ltd., Harvest House, Felixstowe, England.

Water-Soluble Fertilizer

Another grade of Ammo-Phos pelletized fertilizer, 8-32-16, is being introduced this spring by the plant food division of Olin Mathieson.

Said to be one of the most concentrated complete fertilizers on the market, it provides 56 units of plant food per 100 lb. of fertilizer. The 1-4-2 ratio fertilizer until now has been available only in such grades as 5-20-10 and 6-24-12.

More details available from Dept. A&F, Plant Food Division, Olin Mathieson Chemical Corp., 460 Park Ave., New York 22, N. Y.

Gibberellic Acid Formulation

Brellin, a water-soluble powder formulation containing the new plant-growth stimulant gibberellic acid, has just been introduced by S. B. Penick & Co. The chemical nature of Brellin was not revealed.

When dissolved in one pint of water, one level teaspoon (2.5 g.) of Brellin will make a solution containing 10 p.p.m. of gibberellic acid.

Preliminary studies indicate that gibberellic acid increases the growth of dwarf azalea, juniper, maple, oak, Virginia pine, and other plants and shrubs.

For further information, write Dept. A&F, S. B. Penick & Co., 50 Church St., New York 8, N. Y.

Diethyl Toluamide Repellent

Montrose Chemical is offering diethyl toluamide, the recently announced insect repellent developed by USDA (AG AND FOOD, March 1957, page 156). A high concentration of the meta isomer is available to formulators of insect repellent lotions and similar preparations. DET can be applied directly to skin or clothing for protection against mosquitoes, ticks, chiggers, fleas, and biting flies for up to 8 hours, it is said.

Further information can be obtained through Dept. A&F, R. W. Greef & Co. (Montrose sales agent), 10 Rockefeller Plaza, New York City.