

New Products and Equipment . . .

Applicator Designed for Silica Gel Insecticide

A hand applicator for use with Dri-Die Insecticide 67, the treated silica gel powder, has been designed by W. R. Grace & Co. Davison Chemical Division, and is available through the same pest control chemical distributors which handle the insecticide.

The device consists of a polyethylene container to which two attachments can be fitted. One is a long nozzle to blow the powder into spaces where general distribution is desirable and not objectionable. The other is a spreading device which will roll the insecticide on a strip of surface accessible to the insects but which will avoid general dusting through the atmosphere.

More information is available from Dept. A&F, Davison Chemical Co. Division, W. R. Grace & Co., Baltimore 3, Md.

Foliar Fertilizer

Hayes-Sammons has introduced a spray-fertilizer for foliar feeding of cotton and other crops. It is called Fol-Tron. The company says the fertilizer is designed to supply all the needed nutrients and that it can be diluted for application from conventional spray rigs or aircraft. It can also be mixed with "any standard insecticide."

For more details, write Dept. A&F, Hayes-Sammons Chemical Co., Mission, Tex.

Modular Growth Chambers

National Appliance announces the development of a series of small modular growth chambers.

These chambers are designed to meet the need for laboratory studies in animal development and in plant growth and metabolism, such as research in the fields of physiology of parasitism, herbicides, soil microbiology, the nature of crop quality, disease resistance and the mode of virus transmission by insects. Completely instrumented, they can be controlled as to humidity, light, temperature and air composition, with or without automatic cycling devices.

These chambers can be shut down between experiments. Compact and versatile, they permit many different experiments to be carried on simultaneously where multiple installations are made.

One model stands 86 in. high, 64 in. wide, 34.5 in. deep. The larger modular model is 110 in. high, 121 in.

wide, 59 in. deep, and its sections can be dismantled for entry through existing doorways. Reassembled sections are then held together with cam locks.

For further data, write Dept. A&F, National Appliance Co., 7634 S.W. Capitol Hwy., Portland 19, Ore.

Fertilizer Applicators

John Blue Co. has introduced an anhydrous ammonia applicator and a liquid fertilizer applicator.

Called the Blue Nitro-Shooter Series 80, the ammonia applicator comes with 100, 150, 200, 250, or 310-gallon tanks. It has a 26-in. clearance, and 80-inch tread, and over-all width of 96 in. The tool bar is 3 in. square with an 8-ft. straight or 14-ft. folding length available.

The liquid applicator is called the 800 Chemi-Spreader. With it, 20 acres or more can be covered each hour at rates of more than 60 gal. per acre on a 28-ft. swath or more than 80 gal. per acre on a 21-ft. swath.

More information is available from Dept. A&F, John Blue Co., Inc., Huntsville, Ala.

Molybdenum Additive for Commercial Fertilizers

A molybdenum fertilizer additive, designed for treating already established perennials, has been introduced by Climax Molybdenum. Called Moly-Gro fertilizer additive, it is to be marketed to commercial fertilizer producers.

It contains 42% active molybdenum in a relatively insoluble but plant-available form.

Further details are available by writing Dept. A&F, Climax Molybdenum Co., 500 5th Ave., New York 36, N. Y.

Liquid Fertilizer Applicator for Orchards

General Metals is offering an applicator designed especially for applying nitrogen solutions and complete liquid fertilizers to orchards.

Applicator Model 450 consists of a rugged trailer frame, special boom, heavy-duty tank saddles, 235-gal. aluminum or stainless steel tank, Dempster metering pump, front end jack, and a special shield to prevent branches from getting caught in the applicator and doing damage to the trees.

After experimental work with peach, cherry, and apricot orchards, the company said it found that a boom on one

side only is best, because of varying widths of the rows. Spray nozzles on the boom are divided into three sections lengthwise. One, two, or all three sections can be used to take care of trees of various sizes. The boom skids along the ground with practically no weight. A special spring design causes the boom to spring back when it strikes an obstacle such as a tree trunk or fruit box. The boom is shielded to avoid entanglement and has a rubber bumper near the end to avoid de-barking any tree that might be hit. The boom is raised against the side of the applicator for road travel. Standard 21- or 28-ft. booms can be adapted to this trailer for use on pasture and small grain.

For information write: Dept. A&F, Charles G. Monnett, General Metals, Inc., Box 448, Greensboro, N. C.

Glass Apparatus for Tracer Metabolism Studies

The over-all metabolic fate of labeled compounds fed small animals can be conveniently studied with glass apparatus available from Volk Radiochemical. This apparatus, called the metabolic tracer unit, consists of a glass cage to contain the animal, absorption tubes for collecting respiratory carbon dioxide, and receivers for excreta.

Further information is available from Dept. A&F, Volk Radiochemical Co., 5412 N. Clark St., Chicago 40, Ill.

Lauryl Bromide

Michigan Chemical announces the availability, in commercial quantity, of lauryl bromide. It may be used as an intermediate in the preparation of quaternary ammonium salts exhibiting germicidal and algicidal activity.

Michigan Chemical's product has a minimum bromine content of 30%, free alcohol content of less than 1%, and a specific gravity of 1.020 to 1.028.

Further details are available from Dept. A&F, Michigan Chemical Corp., St. Louis, Mich.

Labeled Amino Acids

N-acetyl-1-C¹⁴-L-glutamic acid is being produced by Research Specialties Co. The company is also offering β -alanine-1-C¹⁴. It is analyzed by paper chromatography and radioautography and is free of chemical and radiochemical impurities, it is said.

Additional data are available from Dept. A&F, Research Specialties Co., 200 S. Garrard Blvd., Richmond, Calif.