

New Products and Equipment . . .

Adjuvant for Mixing Pesticides and Nitrogen Solutions

Colloidal Products Corp. introduces CPG dispersant-adjuvant, intended for use in mixing emulsifiable pesticides and nitrogen solutions. CPG, says its manufacturer, will stabilize combinations of 2,4-D and nitrogen solutions long enough to permit application. It also helps to reduce the tendency to separate, helps to reduce foam in some combinations, and acts to some degree as a corrosion inhibitor. Used at the rate of one quart per 100 gallons of spray solution, CPG is added to the spray tank when it is almost full. Cost is said to run less than 2 cents per acre.

For more data, write Dept. A&F, Colloidal Products Corp., 100 Gate 5 Road, Sausalito, Calif.

Hand Pump for Liquid Fertilizers

A light-weight hand pump designed to handle liquid fertilizers and other salt solutions as well as tractor fuels, gasoline, and lubricating oils, is available from Wayne Pump.

The pump, called DD-1, can be supplied with regular or no-drip spouts, pedestals, suction pipes, hoses, meters, and check valves.

Two special composition diaphragms and two sets of reinforced valves provide pumping on both push and pull strokes. Delivery is about 20 gallons per 110 strokes.

The stainless steel shaft operates in a heavy duty nylon bearing, which is completely isolated from liquid flow by the double internal diaphragms.

Additional details and distributional information may be obtained from Dept. A&F, Wayne Pump Co., Division of Symington Wayne Corp., Fort Wayne, Ind.

Bulk Transport

A self-unloading bulk transport for handling a variety of dry materials is now in production by Dorsey Trailers.

The new Dorsey, designated Bulk-master model FB-T, unloads fertilizer, lime, salt, feed, seed, coke, sulfur, and many other dry granular commodities.

The unit pit dumps, or can be equipped with a 14-ft. folding or rigid full-swiveling 18-in.-wide endless-belt elevator. A boom-and-cable assembly swivels the elevator around to lie flat against the body when not in use. A tandem hydraulic pump, powered by a 25-hp. air-cooled gasoline engine, supplies steady pressure to operate the rubber belt conveyor, which is riveted

to a 36-in. heavy-duty steel conveyor chain, and elevators. The system discharges in excess of one ton per minute, depending on the material.

For more information, contact Dept. A&F, Dorsey Trailers, 401 Hickman, Elba, Ala.

Seed Disinfectants

Chipman Chemical Co. announces availability of two liquid seed disinfectants, Chipcote 75 and Chipcote 25, for protection of small grains, flax, cotton, and rice.

Both products contain methyl mercury nitrile, which controls certain seedborne diseases by means of its vapor action. The vapors spread throughout all of the seeds, penetrating their outer covering. In addition, this fungicide is sufficiently residual to protect against seed decay and pre-emergence seedling rot after planting, says Chipman.

Chipcote 75 is formulated for ready-mix and Mist-O-Matic treaters. No dilution with water is necessary. Chipcote 25, a more concentrated formulation, is diluted with water for use in slurry-type treaters.

For further information contact Dept. A&F, Chipman Chemical Co., Inc., Bound Brook, N. J.

Co-Ral Duster

Co-Ral livestock insecticide is available in a 5-ounce squeeze bottle for spot treatment of screw-worms or ear ticks. The light, uniform dust prevents screw-worm infestation in new wounds caused by docking, dehorning, etc., and gives protection until the wound heals, according to Chemagro. Co-Ral dust kills screw-worms on contact and prevents reinfestation for up to 20 days. One dusting also kills ear ticks.

More information is available from Dept. A&F, Chemagro Corp., Kansas City, Missouri.

Biochemicals

Schwarz Laboratories is making available crystalline DL-glyceraldehyde 3-phosphate diethylacetal (GAP). This stable compound can be readily converted to DL-glyceraldehyde 3-phosphate, which plays an important role in carbohydrate metabolism, respiration, fermentation, energy transfer and photosynthesis. The availability of GAP also opens up possibilities for studying the distribution of a key enzyme, glyceraldehyde 3-phosphate dehydrogenase, Schwarz adds.

For transamination studies where radioactive isotopes are not to be used, Schwarz presents a series of N¹⁵-amino acids, with a 40-50% excess of N¹⁵. These are: L-alanine, L-arginine, L-aspartic acid, L-glutamic acid, glycine, L-histidine, L-isoleucine, L-leucine, L-lysine, L-phenylalanine, L-proline, L-serine, L-threonine, L-tyrosine, and L-valine.

Another biochemical available from Schwarz is N¹⁵-ribonucleic acid, with a 70% excess of N¹⁵.

Additional information may be obtained by writing to Dept. A&F, Schwartz Laboratories, Inc., 230 Washington St., Mount Vernon, N. Y.

3-Indolebutyric Acid

Arapahoe Chemicals announces introduction of 3-indolebutyric acid to its product line. This compound is a crystalline, off-white material, melting above 123°C. It is a plant hormone which has found use in rooting of plants, the company reports. Indolebutyric acid is now available in an improved quality in pilot quantities at prices ranging downward from \$200 per lb. For further information, write Dept. A&F, Arapahoe Chemicals, Inc., 2800 Pearl St., Boulder, Colo.

Repellent for Use on Livestock

A dairy cattle and livestock spray bomb is being made by Globe Laboratories for the livestock industry. The spray, containing Fabatrex, is said to repel horse flies, stable flies, horn flies, house flies, mosquitoes, and gnats.

The liquefied gas propellant used consists of dichlorodifluoromethane and trichloromonofluoromethane.

Further information is available from Dept. A&F, Globe Laboratories, 358 Majestic Bldg., Fort Worth, Tex.

Amino Acids

General Mills Research Laboratories announces commercial availability of the following biochemicals: calcium-L-diglutamate, magnesium-L-diglutamate, L-lysine-L-glutamate, L-lysine (free base). The first three products are salts of high water solubility. Aqueous solutions of all three are stable towards sterilization. L-Lysine-L-glutamate may be of interest as a sodium-free flavor enhancer.

Additional information may be obtained from: Department 154S (A&F), General Mills, Inc., Central Research Laboratories, 2010 E. Hennepin Ave., Minneapolis 13, Minn.