

New Products and Equipment . . .

Cylothrin New Insecticide Similar to Allethrin

Cylothrin, a new insecticide chemically related to allethrin, to be used for control of houseflies and other insects, is being manufactured by Carbide & Carbon. First synthesized at Carbide's research and development laboratories, the compound has been evaluated against insects at Boyce Thompson Institute and is now available in limited quantities for test purposes.

Carbide says that cylothrin is more readily synergized than allethrin and can be used effectively against houseflies, gnats, and mosquitoes in low pressure space sprays. The new insecticide has the same order of mammalian toxicity as allethrin and pyrethrins. **PE1**

Water Soluble Soil Fumigant

A general purpose soil fumigant, Vapam, has been announced by Stauffer Chemical Company. Consisting of sodium *N*-methyl dithiocarbamate, this

product has been field tested during the past two years as Compound N-869. Stauffer says Vapam controls a large number of soil-borne diseases, nematodes, growing weeds and weed seeds, as well as some soil insects and related pests.

Water solubility allows convenient application without special equipment. The soil fumigant can be introduced into the soil through irrigation equipment, to the plow sole, or to the ground surface in connection with the use of a rototiller.

Vapam is stable in the commercial concentrated solution, but decomposes rapidly in damp soil to liberate a penetrating gas which dissipates within a few days. Under most conditions, crops may be planted within seven days after soil treatment. **PE2**

Ovens for Moisture Determinations

Precision Scientific Co. has redesigned the Freas conditioning ovens used in moisture determination tests of textiles, grain, tobacco, dairy products, and other

materials. The ovens have been provided with new balances to obtain greater accuracy, permitting moisture determinations from 30% to 0.1%. An insulated platform above the oven prevents heat from affecting the sensitivity of balance. An inner door of plate glass permits observation of samples during conditioning in the oven. Controls, heaters, insulation, thermostats, and general construction are the same as in standard models of Precision-Freas ovens. **PE3**

Nitrosamide Derivative from Eastman

A newly described nitrosamide said to be useful as a convenient source for the preparation of diazomethane in the laboratory is included in the latest list of new additions to the Eastman Organic Chemicals group of some 3500 compounds.

As compared with compounds previously available for the generation of diazomethane, the new reagent is described as offering the advantages of greater stability and much lower toxicity. In accordance with the *Chemical Abstracts* nomenclature system, it is designated by Eastman as *N*-Methyl-*N*-nitroso-*p*-toluenesulfonamide and numbered Eastman 7066. The name used for the compound in Volume 34 of *Organic Syntheses* is *p*-tolylsulfonmethylnitrosamide. The same volume also describes its use in the synthesis of cycloheptanone. **PE4**

Moisture Barrier Sheet for Bags

Arkell & Smiths, manufacturers of paper bags for many industries, is now introducing a new moisture-barrier sheet, Lamo-Pak, to all industries whose packaged products are affected by changes in moisture content. The newly-developed laminate, Lamo-Pak, is sandwiched between two sheets of light-weight kraft.

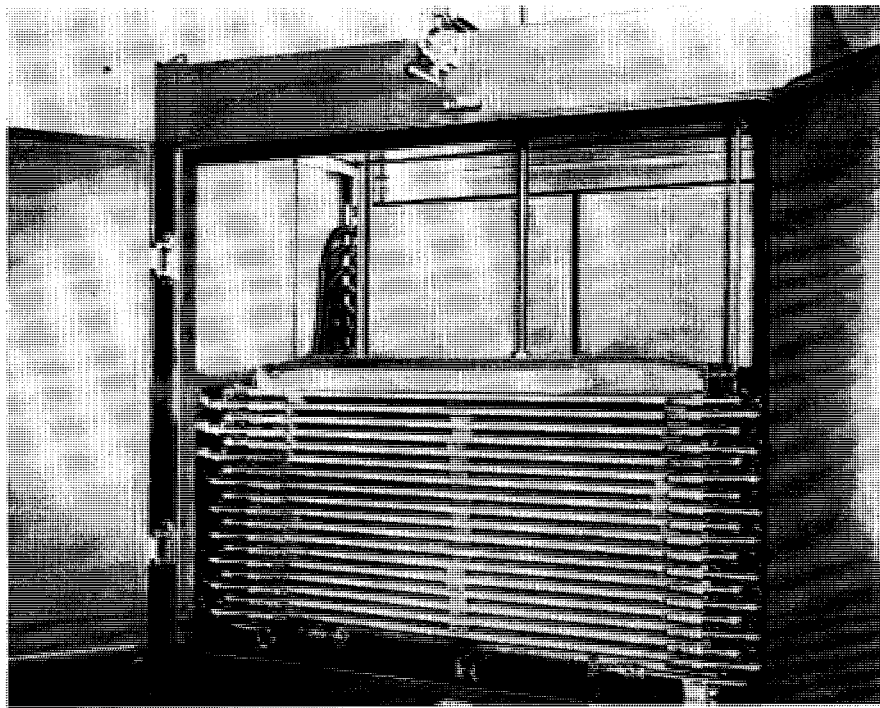
The laminate is particularly adaptable for packaging products whose moisture content must be retained and for hygroscopic materials. Arkell & Smiths claims that Lamo-Pak is up to twice as effective as a moisture barrier sheet as asphalt laminated kraft.

Lamo-Pak is said to be free of odor and to possess other advantages over asphalt laminated kraft. **PE5**

New Herbicide Enters the Field

Geigy Chemical is moving a triazine compound, Geigy 444, from the greenhouse into the field for experimental testing. Formulated as a 4-pound-per-gallon emulsion, 2-chloro-4,6-bis-

Contact Type Package Freezer



Articold contact type package freezer designed to freeze packaged food products quickly at low costs. Operating at a quick freeze temperature of -35° F. the machine can handle up to 1200 pounds of fruits and vegetables or 1800 pounds of meat per hour. Trays of packaged food are placed on the freezing plates. The layers of freezing plates are then lowered, making contact at both top and bottom of the food packages. Contact with the freezing plates is claimed to result in quick, even freezing of the packaged food product. The freezer is being distributed by the Food Machinery Division of Food Machinery and Chemical Corp. **PE6**

(diethylamino)-S-triazine is now available in test quantities to state and federal workers, and other qualified research personnel. It is being recommended as a selective pre-emergence and a non-selective post-emergence herbicide for use on rye grass, oats, snapbeans, peas, cucumbers, radishes, spinach, cotton, tomatoes, and sweet corn. **PE7**

Adipic Acid

Monsanto Chemical Company became the second major supplier of adipic acid when it announced that this resin intermediate is available in commercial quantities from its Organic Chemicals Division.

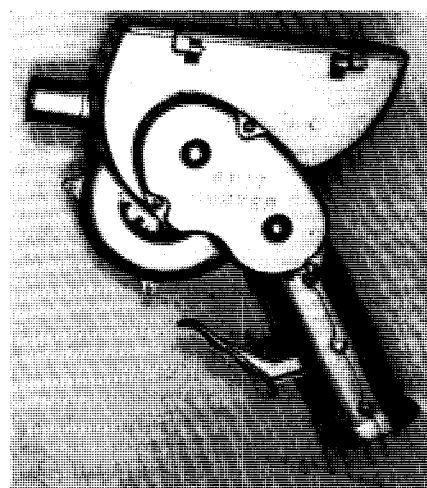
Adipic acid, which has long been a raw material for nylon, is also a chemical intermediate for the synthesis of many organic compounds including wax substitutes, surfactants, insect repellents, and synthetic lubricants. **PE8**

Polyethylene Bottles and Jars

Polyethylene bottles and storage jars, featuring heavy-wall, all-welded construction, and designed for handling acids and other corrosive liquids, are now available from the American Agile Corp.

Bottles are provided with a tight-closing screw cap. Jars are provided with a friction fitting lid and are designed for storing and transporting liquid and solid corrosive substances that are moisture-sensitive or otherwise easily contaminated. **PE9**

Insecticide Hand Duster



Insecticide duster which can be operated with one hand, leaving the other hand free to move foliage or to hold plants, is now available through the Raw Materials Trading Co. The dust projection distance is 12 feet, and the duster holds 5¹/₄ oz. of material equal to 7 minutes of dusting. The duster is intended for home gardeners and nurserymen. **PE10**

Seed Protectant for Corn, Beans, Peas

"Delsan" AD Seed Protectant, a new insecticide-fungicide seed protectant, is available from Du Pont. The formulation contains "Arasan" seed disinfectant and dieldrin insecticide. The active ingredient in "Arasan" is thiram.

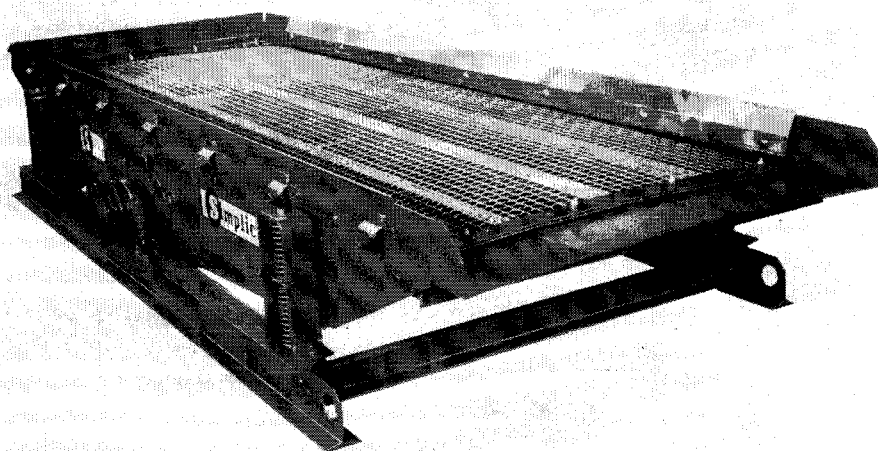
The new material is recommended for treatment of beans, including limas; seed corn (field and sweet); and pea seed.

Test work with this combination shows

that the chemical protection will usually increase stands and yields by reducing losses from seed decay and seedling blight caused by many seedborne and soilborne organisms. Where seed-corn maggot and certain other soil insects feed on seed and germinating seedlings, the dieldrin gives considerable protection.

"Delsan" AD seed protectant may be applied as a slurry with a standard slurry treater, or the slurry may be mixed with the seed in a barrel treater or on a floor. **PE11**

Gyrating Screen



This light, compact 3 X 8 ft. gyrating screen provides 24 square feet of screening surface. Its balanced assembly is claimed to concentrate the vibration to the deck area with little or no vibration transmitted to the main frame, plant floor, or supporting structure. The screen is tapered at the discharge end so it will easily fit existing conveyors. The unit weighs 1000 lb. and is designed for industries where a low cost high capacity gyrating screen is needed for screening light-weight materials. **PE12**

Use...

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