New Products

PENNCAP-M Insecticide: A foliar insecticide containing 22% or 2 lb/gallon of methyl parathion in micro-capsules. Has been shown to control a broad range of insects. Features include reduced mammalian toxicity, longer residual, and effectiveness in many cases at reduced dosage rates. Presently registered for use on alfalfa, apples, cotton, peas, soybeans, sweet corn, and tobacco. Additional testing is suggested on artichokes, beans, field corn, grapes, onions, pasture and rangeland, rice, small grains, stone fruit, and tomatoes, under EPA Experimental Permit. Also, samples are available for investigational use on other crops.

KNOX OUT 2FM Insecticide: A microencapsulated formulation of Diazinon containing 22% of 2 lbs/gallon active ingredient. Designed primarily for foliage or household/structural insecticidal use. Testing is suggested on roaches and other household pests and pests of ornamentals under EPA Experimental Permit.

Encapsulated Sumithion TD-2010 and TD-2011: A microencapsulated formulation of Sumithion (fenitrothion) 0.0-Dimethyl-O-(3-methyl-4-nitrophenyl) phosphorothioate containing 22% or two pounds per gallon. Suggested for testing on a broad range of insects on an investigational basis.

Encapsulated Malathion TD-2009: A microencapsulated formulation containing 22% or two lbs/gallon of Malathion. Testing is suggested for control of stored grain insects and insects on ornamentals on an investigational basis.

PENNCAP-E Insecticide: A microencapsulated formulation of Parathion containing 22% or two lbs/gallon active ingredient. Testing is suggested for control of insects on sorghum under an EPA Experimental Permit (application pending). Testing is also suggested for control of insects on citrus, cotton, and small grains on an investigational basis.

AMERICAN CYANAMID COMPANY

COUNTER 15-G Soil Insecticide
THIMET 15-G Soil and Systemic Insecticide
THIMET 600 Systemic Insecticide
CYGON 400 Systemic Insecticide
CYTHION Insecticide "The Premium Grade Malathion"
NEM-A-TAK Nematicide-Insecticide

Standard Products

Baygon: 2-(1-Methylthio)phenol methylcarbamate is particularly effective against insects affecting man and animals. Baygon has rapid knockdown and long residual action on hygienic pests such as cockroaches, flies, and mosquitoes.
Mesurol: 3,5-Dimethyl-4-(methylthio)phenol methylcarbamate has demonstrated a wide spectrum of effectiveness as a foliar spray on a broad range of crops. Its broad spectrum of control includes species in the orders Coleoptera, Diptera, Homoptera, Hemiptera, and Lepidoptera, as well as various mite species. Mesurol treated seed and fruit have demonstrated repellency to birds and rodents. Seed treatments have shown potential for protection of certain crops from seed and root damaging insects. Mesurol, like most carbamate insecticides, is highly toxic to bees.

Morestan: 0,0-Dimethyl 0-[3-methyl-4-(methylthio)phenyl] phosphorothioate is a systemic insecticide which provides broad-spectrum control of endoparasitic, ectoparasitic, cyst-forming and root-knotting nematodes. It has given control of insects known to be resistant to chlorinated hydrocarbon insecticides. Morestan kills by contact action and, therefore, thorough coverage is necessary for maximum control. In addition to mite control, Morestan has effectively controlled aphids, pear psylla, powdery mildew, and whiteflies on such crops as apples, cucumbers, muskmelons, peaches, roses, and squash.

New Products

CGA-12229: 0,5-Chloro-1-(1-methyllethyl)-1H-1,2,3-triazol-1-yl 0,0-diethylphosphorothioate. A soil insecticide for control of a broad range of insects in corn, turf and vegetable crops. Also has nematocidal properties. Available as a 1G, 5G, 20G, 2EC, and 4EC formulation.
Standard Products

Acreban: (4E) (chlorobenzilate) a miticide labelled for citrus, deciduous fruit and nuts, cotton and ornamentals.

Diazinon: (2D,4E,4S,14G,50W) an organophosphate insecticide which has a high degree of both contact and stomach insecticidal activity on deciduous fruit crops, citrus, tobacco, forage, cotton, vegetable and other crop pests.

Lannate: (Methomyl) S-methyl-N[(methylcarbamoyl)oxy] thiocetimidate. Formulated as 90% water soluble powder and 1.8 lb/gal liquid. Registered for apples, alfalfa, asparagus, beans, celery, citrus, cole crops, cucurbits, chrysanthemums, carrots, sweet corn, cotton, grapes, lettuce, melons, mint, nectarines, peaches, peas, peppers, potatoes, soybeans, saffron, spinach, sugar beets, tobacco, tomato and turf. Experimental 9% granule, 2 and 5% dust and 25% wettable powder formulations available.

EPN: 0-ethyl O-p-nitrophenyl-phenylphosphonothioate. Sold as technical only to formulators. Primary uses on corn, pecans, cotton, tobacco, turf and other ornamental crops.

DACAMOX (Also known as DS-15647 and ENT-27549): A systemic carbonate soil insecticide containing the active ingredient Thiofamox, 3,3-dimethyl-1-[(methylthio)-2-butanone O-[(methylamino)carbonyl]oxime. Available as a 10% and 15% granular. Controls insects and mites on cotton, potatoes, peanuts, sugar beets, soybeans, and ornamentals. Additional testing is suggested on above, as well as other vegetable, fruit, and forage crops where appropriate. Suggest testing as a nematicide in potatoes, peanuts, soybeans, and other nematode affected crops.

For further information contact:
Dr. H. V. Morton, CIBA-GEIGY Corporation, Agricultural Division, P.O. Box 11422, Greensboro, North Carolina 27409

DOW CHEMICAL U.S.A.

New Products

RELDAN Insecticide (chlorpyrifos-methyl, DOWCO 214) 0,0-diethyl 0-(3,5,6-trichloro-2-pyridyl) phosphorothioate. Contact insecticide of low mammalian toxicity with good residual properties. Experimentally promising for control of stored products and forest insect pests.

DURSBAN Insecticide (chlorpyrifos) 0,0-diethyl 0-(3,5,6-trichloro-2-pyridyl) phosphorothioate. Broad spectrum insecticide for control of mosquito adults and larvae, household (PCO) type insects, ornamental plant and turf insect pests. Available as a slow release granule emulsifiable and ULV concentrate.

LORSBAN Insecticide (chlorpyrifos) 0,0-diethyl 0-(3,5,6-trichloro-2-pyridyl) phosphorothioate. For control of foliage and root feeding insect pests of food and fiber crops. Available as granule, wettable powder and emulsifiable concentrate.

PLICTRAN Acaricide (cyhexatin, DOWCO 213) Tricyclohexyltin hydroxide - A wettable powder miticide for use on fruit trees and ornamental plants.

KORLAN Insecticide (ronnel) 0,0-diethyl 0,2,4,5-trichlorophenyl phosphorothioate. Broad spectrum insecticide for control of household and livestock insect pests. Available as emulsifiable concentrate.

DU PONT COMPANY

Standard Products

Lannate: (Methomyl) 5-methyl-N[(methylcarbamoyl)oxy] thiocetimidate. Formulated as 90% water soluble powder and 1.8 lb/gal liquid. Registered for apples, alfalfa, asparagus, beans, celery, citrus, cole crops, cucurbits, chrysanthemums, carrots, sweet corn, cotton, grapes, lettuce, melons, mint, nectarines, peaches, peas, peppers, potatoes, soybeans, saffron, spinach, sugar beets, tobacco, tomato and turf. Experimental 9% granule, 2 and 5% dust and 25% wettable powder formulations available.

EPN: 0-ethyl O-nitrophenyl-phenylphosphonothioate. Sold as technical only to formulators. Primary uses on corn, pecans, cotton and soybeans.

Marlote 5DK (methoxychlor-2, 2-bis(p-methoxyphenyl)-1, 1-trichloroethane and isomers. Formulated as 50% wettable powder. Primary uses on beef and dairy cattle, mosquito control, alfalfa.

Technical methylchlor. Sold to formulators.

Vysdate: (Oxamyl) Methyl N, N’-dimethyl-N-[(methylcarbamoyl)oxy]-1-thiooximidate. Formulated as a 2 lb/gal liquid for control of nematodes and insects on ornamentals, non-bearing fruit trees, tobacco and celery. Experimental formulation of 10% granular.

For further information contact:
John J. Fennell, E.I. duPont de Nemours & Co., Biochemicals Department, Wilmington, Delaware 19898.

MATERIALS AVAILABLE FOR TESTING
Insecticide and Acaricide Test

EM LABORATORIES, INC.

New Products

Chlorithiofos (also known as S 2957, Celathon): 0,0-diethyl-0-[2,4,5-dichloro(merhylthio)phenyrj thionophosphate. A rather toxic but highly effective organophosphorous insecticide controlling a broad spectrum of insects, especially fruit tree and grape insects. At rates of 3 ounces a.i./100 gallons, field crop insects (alfalfa, potatoes) at rates of 1 lb a.i./acre.

CM-UTH 1424 (also known as OMS 1854, A13-29199): Chemistry not yet released. An experimental insecticide of low mammalian toxicity (LD506000 mg/kg) with activity against adult flies. Suggested rates of application: For adult houseflies, 1 gram a.i./m².

For further information contact:
H. Andre Knoll, Pesticides Department, EM Laboratories Inc., 500 Executive Blvd., Elmsford, New York 10523.

FMC CORPORATION

New Products

Pounce Insecticide (FMC 33297): 3-phenoxypyphenyl trans-3-2 (2,2-dichlorovinyl) 2,2-dimethylcyclopropane-1-carboxylate. A synthetic pyrethroid insecticide with practical residual properties effective on a wide spectrum of foliar insects important on cotton, vegetable crops, deciduous fruits, field crops, tobacco, forestry, and in animal health.

Standard Products

Furanad Insecticide (carbofuran): 2, 3-dihydro-2, 2-dimethyl-7-benzofuranyl methyl carbamate. Furanad insecticide is a highly effective broad-spectrum soil-and foliar-applied insecticide-nematicide. It is registered for control of certain pests occurring on field corn, alfalfa, peanuts, potatoes, sorghum, sugar beets, sugarcane, tomato, rice, strawberries, and forest crops. Pests controlled and registered on specific crops include corn rootworm, southwestern corn borer, European corn borer, flea beetle, armyworm, fall armyworm, wireworms, rootworms, potato leafhopper, aphids, sugar beet root maggot, rice water weevil, Colorado potato beetle, hortonorms, sugarcane borer, lygus bugs, and grasshoppers; and root knot, stunts, stinky root, dogger, lemon, lice, ring, and cyst nematodes. Formulations include 10G, 5G, 3G, and 4 Flowable.

Ethion: 0, 0, 0, 0 tetraethyl S, S'-methylene bisphosphoro-dithioate. Formulated as 25WP, 4EC, 8EC, and Ethion-oil. Ethion is a mitochondrial-insecticide registered on 37 different food crops as well as on cotton, sorghum, turf, and many woody ornamental trees for control of approximately 75 insect and mite species. Ethion is particularly useful as a scalicide-miticide when combined with spray oils on citrus, deciduous fruits and woody ornamentals.

Thiodan Insecticide (endosulfan) hexachlorohexahydro methano-2,4,3-benzodioxiepin oxide. Formulated as 50WP, 2EC, 3EC, 5%, 4% and 3% dust. Thiodan Insecticide is a broad spectrum insecticide registered for over 65 crops including apples, almonds, cotton, rice, potatoes, tobacco, and various other vegetable, fruit, nut, field and ornamental crops.

For further information contact:

GULF OIL CHEMICALS CO.

New Products

GCP-5126: (Also known by common name malonoben, and by S-15126.) 3,5-di-t-butyl-4-hydroxybenzylidene-malononitrile. Miticide for control of mite forms of mites on pome fruits, stone fruits, citrus, sorghum, corn, cotton and strawberries. Shows promise against foliage-feeding lepidoptera. Available as 50WP or 4L flowable.

GCP-6361: Chemistry confidential. Excellent potential against corn rootworm complex as shown in 1976 field tests.

GCP-9646: Chemistry confidential. Excellent acaricide with selectivity when applied foliar. Good potential against coleoptera and dipterous soil insects. Available as 4EC and 10G.

For further information contact:
R. A. Schwartzbeek, Manager, Biological and Field Research, Gulf Oil Chemicals Company, P.O. Box 2900, Shawnee Mission, Kansas 66201.

ICI UNITED STATES INC.

New Products

Pirimor: (Also known as pirimicarb, PP062) 2-(dimethyl-amino-5,6-dimethyl-4-pyrimidinyl dimethylcarbamate. Available as 50% wettable powder. A selective and highly active acaricide effective against op and non-op resistant aphids on ornamentals, vegetable crops, field crops and fruits and nuts.

Actellic: (Also known as pirimiphos-methyl, PP511). 0-2-dimethylamino-6-methyl pyrimidine-4-yl 0,0-dimethyl phosphorothioate. Available as 5% dust active per US gallon EC. A broad spectrum fast-acting organophosphorous insecticide with low mammalian toxicity, used as protectant and residual spray for the control of stored product insects.

Primicid: (Also known as pirimiphos-ethyl, PP211). 2-diethylamino-6-methyl pyrimidine-4-yl diethyl phosphorothionate. Available as 50% W/V EC. A broad spectrum organophosphorous insecticide for the control of turf insects.

PP 577: (Also known as permethrin, NRDCE 143). M-phenyloxy-benzyl (Z)-cis, trans-3-(2,2-dichlorovinyl)-2,2-dimethyl-cyclopropanecarboxylate. Available in 2 lb active per US gallon EC. A highly active broad spectrum synthetic pyrethroid for the control of most lepidoptera, many coleoptera, heteroptera, homoptera and diptera insects attacking cotton, other field crops, vegetables, fruits, nuts and forests.

PP 199: 2'-chloro-2,4-dinitro-5', 6-di-(methylthyl)-phenylamine. Available at 50% W/V flowable formulation. A new acaricide very effective against a wide range of mites and several important insects of trees, fruit, citrus, cotton, vegetables and field crops.

For further information contact:
Dr. A. A. Akhavein, Product Development Manager, Agricultural Chemicals Division, ICI United States Inc., P.O. Box 208, Goldsboro, North Carolina 27530.
MATERIALS AVAILABLE FOR TESTING  

NOR-AM AGRICULTURAL PRODUCTS, INC.  

Standard products  
CARZOL SP: 92% formetanate hydrochloride water soluble powder; Acaricide, insecticide.  

For further information contact:  
Mr. Charles M. Gates, Supervisor, Field Development, 1275 Lake Avenue, Nor-Am Agricultural Products, Inc., Woodstock, Illinois 60098  

RHODIA INC.  

New Products  
Do tan (chlormephos): Also called Rho-Dotan a 10 or 15% granular soil insecticide espeically for use in field corn.  

Standard Products  
Zolone (active ingredient phosalone): This material is currently registered on apples, grapes, almonds, English walnuts, pecans, plums/prunes, apricots, peaches, nectarines, cherries, citrus, and artichokes. Both a 3.0 EC and 25% W.P. formulations are being tested in the field on various crops.  

For further information contact:  
W. T. Spencer, Project Leader, Insecticide-Fungicide Development, Rhodia Inc., Agricultural Division, P.O. Box 125, Monmouth Junction, New Jersey 08852.  

ROHM & HAAS COMPANY  

New Products  
RH-218: 0-ethyl 5-propyl O-(2,4,6-trichlorophenyl)phosphororhioate. Available as a 5.0 lb per gallon EC. Recommended as a broad spectrum insecticide in cotton, particularly effective for the control of OP resistant Lepidopterous species.  

Standard Products  
Karathane Liquid Concentrate: 2,4 Dinitro-6-octyl phenyl crotonate and 2,6 dinitro-4-octyl phenyl crotonate, 35.0% and nitrooctyl phenols (principally dinitro) 1.25% wettable powder dust base. Uses same as Karathane Liquid Concentrate plus certain ornamentals.  

For further information contact:  
Dr. James B. Ryan, Rohm and Haas Company, Spring House, Pennsylvania 19047  

SHELL DEVELOPMENT COMPANY  

New Products  
SD 43775: Benzeneacetic acid, 4-chloro-alpha-(1-methylethyl)-cyano (3-phenoxyphenyl)methyl ester. An investigational compound (synthetic pyrethroid) having activity against a broad spectrum of insects and mites.  

For further information contact:  
Mr. J. M. Bann, Manager, Pesticide Development Department, Shell Development Company, P.O. Box 4248, Mossoro, CA 95352
**MATERIALS AVAILABLE FOR TESTING**

**THOMPSON-HAYWARD CHEMICAL COMPANY**

New Product

DIMILIN: A chitin inhibitor insecticide N-\{(4-chlorophenyl)amino\}carbonyl\-2,6-difluorobenzamide. Efficacy is indicated by failure of larvae to molt following treatment or failure of eggs to hatch after adults have been exposed to the compound. Effective rates for control of many insects are in the range of 0.5 to 2.0 oz active ingredient per acre. Available as a 25% wettable powder and a 1% granule. Labeled for control of gypsy moth. Extensive research indicates excellent control of mosquito larvae, soybean insects, boll weevil, tent caterpillar, citrus rust mite, livestock flies and gnats. Also has shown good results in control of codling moth, midges, several additional forest insects, livestock lice and many lepidopterous insects on crops. Has minimum impact on beneficials and the environment.

For further information contact:
Dr. C. A. Shadbolt, Thompson-Hayward Chemical Company, P.O. Box 2383, Kansas City, Kansas 66110.

**UNION CARBIDE CORPORATION**

Standard products

Carbaryl: (1-naphthyl methylcarbamate): Available in 50% WP, 80% sprayable, 4 lb. active/gal; in oil (SEVIN 4-Oil); in molasses (SEVIMOL) and in various dust formulations. General insecticide.

Aldicarb: (2-methyl-2-(methylthio)propionaldehyde-O-(methylcarbamoyl)oxime): Available as 10% granular for use on ornamental plants and nurseries; 15% granular for agricultural uses on cotton, potatoes, sugar beets, sugarcane, peanuts. Systemic insecticide/acaricide. Also effective on most species of nematodes.

UC 21865: Foliar applications have given control of thrips, aphids, certain beetles, other leaf feeding insects. Primarily being tested as a nematicide. A systemic carbamate, available as 75% WP.

UC 21762: Effective broad-spectrum insecticide on many caterpillar species. Has moderate residual properties and is non-phytotoxic to many agricultural crops. Available as 75% WP and a 2% bait.

For further information contact:
Dr. R. G. Haines, New Product Development Manager, Union Carbide Corporation, Agricultural Products and Services, P.O. Box 1906, Salinas, California 93901

**UNIROYAL CHEMICAL**

New Products

R677 and V451: Chemistry is confidential. An EC formulation has shown broad spectrum insect and mite control on numerous crops. Results indicate that R677 is safe on honeybees.

TY930: Chemistry is confidential. A WP formulation has shown specific activity against the citrus rust mite Phyllocoptruta olivacea.

For further information contact:
Dr. Ivan E. Gard, Manager, Field Research, Uniroyal Chemical, Division of Uniroyal, Inc., 74 Amity Road, Bethany, Connecticut 06525

Standard products

Omite: Propargite (2-(p-tert-butylenoxy)cyclohexyl 2-propynyl sulfite) on acaricide specific for plant feeding mites. Available as Omite-30W (30% wettable powder), Omite-6E (6 lb/gallon liquid), Omite-40 (4% dust) or Omite (6.75 lb/gallon liquid). Presently registered for use on almonds, apples, apricots, corn (field), cotton, figs, grapefruit, grapes, hops, lemons, mint, nectarines, oranges, peaches, plums, potatoes, prunes, strawberries, and walnuts.

For further information contact:
Mr. R. E. Grahame, Market Development Specialist, Uniroyal Chemical, Division of Uniroyal, Inc., Spencer St., Naugatuck, Connecticut 06770.

**THE UPJOHN COMPANY**

New Products

BAAM: also known as U-36,059, Amitraz, BTS 27,419 N\-\{(2,4-dimethylphenyl)\}N\-\{(2,4-dimethylphenyl)limino\}methyl\-N\-methylmethanimidamide. Insecticide/acaricide with contact and ovicide activity. Available as a 1.5 EC and a 50% wettable powder for the control of insects and mites attacking pears, apples, citrus and cotton.

U-46,855: Chemistry is confidential. Available as a 75% wettable powder formulation for the control of lepidopterous insects as cotton bollworm, tobacco budworm and cabbage looper.

For further information contact:
Dr. Price H. Parham, Insecticides, The Upjohn Company, Agricultural Division, Kalamazoo, Michigan 49001