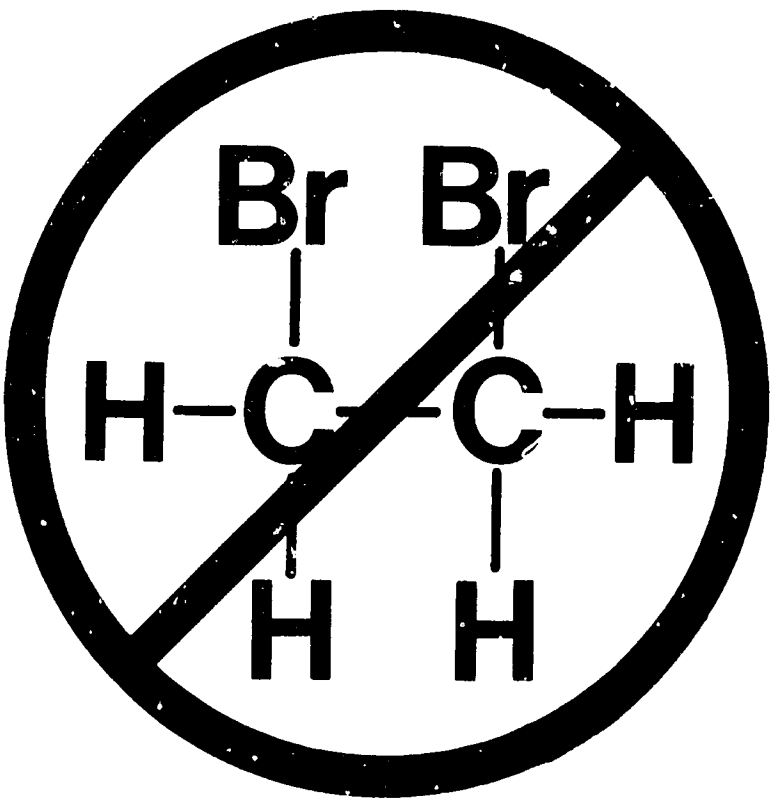
41878 PN-AAT-668

POSTHARVEST INSTITUTE FOR PERISHABLES

ETHYLENE DIBROMIDE (EDB)

ALTERNATIVES FOR PERISHABLES

a bibliography



IN COOPERATION WITH

UNITED STATES AGENCY FOR INTERNATIONAL DEVELOPMENT (USAID)

PN-AAT-668

ETHYLENE DIBROMIDE (EDB)

ALTERNATIVES FOR PERISHABLES

a bibliography

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Published by

Postharvest Institute for Perishables
University of Idaho
College of Agriculture
Moscow, Idaho 83843
USA

in cooperation with the

UNITED STATES AGENCY FOR INTERNATIONAL DEVELOPMENT
Washington, D.C. 20523
USA

Project Title: Storage and Processing of Fruits and Vegetables
Project No. AID/DSAN-CA-0265

September 1985
Publication IC-85-01

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PREFACE

Growers throughout the world are now faced with the United States' ban of ethylene dibromide (EDB) residues in foodstuffs. Over the past few years many alternatives from hot water dipping to complex irradiation facilities have been tested and a few are in commercial use. This bibliography is a listing of 215 items discussing these various alternatives as applied to certain insects on specific crops.

Most of the materials listed, except books, are available through the Postharvest Institute for Perishables Information Center. The forms necessary for ordering materials are included in Appendix 3. Please note: generally there is no charge for photocopies or microfiche copies of documents from requestors in developing countries. (Appendix 4 lists costs for others.) The PIPIC asks, however, that your requests be only for reasonable amounts of materials which you expect to use in the near future.

As it is impossible to include all information on all crops within the scope of any one work, the PIPIC staff encourages you to submit requests for more detailed information directly to us. An additional literature search can be individually prepared. A form for submitting such requests is included in Appendix 5.

There are six indices which refer to the main entries in the middle (white) section. General subjects, chemicals, crops, organisms, first authors, and titles are each listed in a separate index in the first (colored) section. The indices give access to the main entry section which has no logical organization of its own.

Comments concerning this bibliography, questions about the Postharvest Institute for Perishables, and requests for information related to other perishable crops after harvest are all welcomed. Please contact:

Postharvest Institute for Perishables
314 University of Idaho Library
Moscow, Idaho 83843
USA

Telephone: (208) 885-7059 or
(208) 885-6791
Telex: 5107760923 UI CID MOCW

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F90360 Methyl Bromide Fumigation of Citrus Nursery Stock as a Possible Quarantine Treatment for the Citrus Blackfly, Aleurocanthus woglumi Ashby
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G02670 Public Health and Legal Problems of Food Irradiation
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F01522 Radiation Disinfestation of California Stone Fruits Infested by Medfly - Effectiveness and Fruit Quality
F90383 Radiation for Fumigation: The FDA Introduces Some Interesting Problems (Citrus)
G01481 Radiation Pasteurization of Fruits and Vegetables -- A Bibliography
R01409 Radiation Preservation of Foods of Plant Origin Part I Potatoes and other Tuber Crops
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G90009 A Safe Replacement for EDB (ethylene dibromide). It's as Effective as Chemicals & Costs about the Same (Carbon dioxide)

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F90424 Some Studies on Soil Pests Attacking Virginia Tobacco in Zambia

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V00907 Special Research Report. I. A Review of the Factors Affecting the Deterioration of Harvested Mushrooms

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F01250 Storage of Some Local and Introduced Mango Cultivars Grown in Trinidad
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G02843 Stored Grain -- Industry Researches Fumigation Substitute
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G02907 Studies of Sprout Inhibition of Onions and Potatoes and Delayed Ripening of Bananas and Mangoes by Gamma Irradiation
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R00797 Studies on the Effect of Gamma Radiation (from Cobalt 60 Source) on Storage Life of White Yam (Dioscorea rotundata var. Efon) infected with Scutellonema bradys
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F90436 A Study of the Mutagenicity of Irradiated Sugar Solutions: Implications for the Radiation Preservation of Subtropical Fruit
F00891 Technological Feasibility Studies on Combination Treatments of Subtropical Fruits
G02830 Technology of Food Irradiation
F01544 Temperature Control as an Alternative to Ethylene Dibromide Fumigation for the Control of Fruit Flies (Diptera: Tephritidae) in Papaya
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F90011 Toxicity of Ethylene Dibromide and Methyl Bromide Mixture to Sitophilus oryzae (L.) and Tribolium castaneum (Herbst)
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F90379 USDA Orders Fumigation of Citrus Leaving Rio Grande Valley
V01050 Vacuum Fumigation with Ethyl Formate to Control the Green Peach Aphid in Packaged Head Lettuce

G02944 Volatility of Organic Compounds as an Index of the Toxicity of their Vapors to Insects
G01139 Ways in which Irradiation Could Improve the Effectiveness of Several Existing Food Preservaton Processes in South Africa
F01527 Western Cherry Fruit Fly: Fumigation with Methyl Bromide at Selected Fruit Temperatures
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G90003 Where are the Facts on EDB?
G00476 Wholesomeness of Irradiated Food
F01260 6,7-Dimethoxycoumarin in the Peel of Gamma-Irradiated Grapefruit

MAIN ENTRIES

MAIN ENTRY SECTION

All citations in this section are arranged by Document Order number. The subsections are F (Fruits), G (General), M (Mixed Crops), S (Spices and Beverage Crops), and V (Vegetables.)

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ORDER F00889
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SOURCE In Combination Processes in Food Irradiation. International Atomic Energy Agency. Vienna. 1981. p 141-152.
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Sweet Peppers 1845

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Irradiation

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SUBJECT Citrus Fruits 1000

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TITLE The Hot Water Treatment of Papaws in Hawaii.
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AUTHOR RUCKELSHAUS-William-D.
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SUBJECT Food Policies

ORDER F90405
AUTHOR JUENEMAN-Frederic-B.
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AUTHOR JUENEMAN-F-B.
TITLE DDT and EDB.
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AUTHOR POWLEDGE-Fred.
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ORDER G90028
AUTHOR HENON-Y.
TITLE Ionizing Treatment of Agricultural and Food Products: A Technique for the 1980's.
SOURCE Industries Alimentaires et Agricoles. v 100. n 1/2. 1983.p 45-52.
SUBJECT Irradiation

ORDER G90029
AUTHOR THAYER-D-W. HARLAN-J-W.
TITLE Status of the USDA Food Irradiation Programs.
SOURCE Food Technology. v 37. n 2. 1983. p 46-47.
SUBJECT Irradiation

ORDER G90030
AUTHOR RENNER-H-W. GRAF-U. WURGLER-F-E. ALTMANN-H. ASQUITH-J-C.ELIAS-P-S.
TITLE An Investigation of the Genetic Toxicology of Irradiated Foodstuffs Using Short-Term Test Systems. III. In vivo Tests in Small Rodents and in Drosophila melanogaster.
SOURCE Food and Chemical Toxicology. v 20. n 6. 1982. p 867-878.
SUBJECT Irradiation

ORDER G90032
AUTHOR DIEHL-J-F.
TITLE Irradiation of Foods. Current State and Propspects.
SOURCE Revista de Agroquimica y Tecnologia de Alimentos. v 21. n 1.1981. p 23-34.
SUBJECT Irradiation

ORDER G90033
AUTHOR LAZARIDIS-A-K.
TITLE Cytological Analysis of Some Subtropical Crops in Relation to their Sensitivity to Radiation. /Russian./
SOURCE Subtropicheskie Kul'tury. n 5. 1983. p 151-156.
SUBJECT Irradiation

ORDER G90034
TITLE The Medfly Mess: Insect Missing but Bugs Abound in Marketing.
SOURCE Citrograph. v 67. n 5. 1982. p 97-98, 107.
SUBJECT Insect Control

MIXED CROPS

ORDER M00042
AUTHOR SODERSTROM-Edwin-L.
TITLE Research on the Use of a Low Oxygen Controlled Atmosphere for Insect Control in Dried Fruits and Tree Nuts. (3 p. 1977.) /Almonds. Raisins. Fumigation. Chemical residues./
SOURCE In Dewey, D. H. Controlled Atmospheres for the Storage and Transport of Perishable Agricultural Commodies. Papers presented at the Second National Controlled Atmosphere Research Conference on April 5 -7, 1977 at Michigan State University. Michigan State University. Department of Horticulture and the US Dept. of Agriculture. Agricultural Research Service. p 205-206.
SUBJECT Pest Control

ORDER M00165
AUTHOR CARMI-Y.
TITLE Insect Control & Fumigation. (5 p. 1978.) /Volcani Institute Triennial Report. Melon fly. Sitophilus oryzae (L.)./
SOURCE Ministry of Agriculture. Agricultural Research Organization. Institute for Technology & Storage of Agricultural Products. Scientific Activities 1974-77. Pamphlet No. 184. Bet Dagan, Israel: 1978. p 100-104.
SUBJECT Storage

ORDER M00176
TITLE Handling. (20 p. 1975.) /Harvesting, degreening & waxing citrus. Accelerated ripening of apricots and nectarines. Ethylene on bananas. Citrus forced air cooling. Precooling. NAA (phyomone) on grapes. Strawberry early harvest and precooling. Melon precooling. Citrus fumigation. Polyethylene packaging. Volcani Institute Triennial Report./
SOURCE Ministry of Agriculture. Agricultural Research Organization. Institute for Technology & Storage of Agricultural Products. Scientific Activities 1971-74. Bet Dagan, Israel: 1975. p 7-24.
SUBJECT Fruit

ORDER M00181
TITLE Division of Stored Products. (27 p. 1974.) /Ephestia cautella. Almond moth. Bracon hebetor. Biological control. Modified pressure and atmosphere storage. Fumigation of dates in packing houses, citrus, dehydrated vegetables, & Chinese cabbage. Soybean deterioration. Calcium propionate and propionic acid as fungistats. TBZ and molds of avocado slices. Methyl bromide on stored almonds. Almond bulk storage. Volcani Institute Triennial Report./
SOURCE Ministry of Agriculture. Agricultural Research Organization. Institute for Technology & Storage of Agricultural Products. Scientific Activities 1971-74. Bet Dagan, Israel: 1975. p 119-144.
SUBJECT Fruits and Vegetables

ORDER M00204
AUTHOR MONRO-H-A-U.
TITLE Principles of Fumigation. (23 p. 1969.)
SOURCE Manual of Fumigation for Insect Control. Rome: Food & Agriculture Organization (FAO). 1969. P 5-37.
SUBJECT Fumigation 3877

ORDER M00489
AUTHOR ECKERT-J-W. SOMMER-N-F.
TITLE Control of Diseases of Fruits and Vegetables by Postharvest Treatment. /Physical means. Chemical means. Heat removal. High-temperature process. Irradiation./
SOURCE Horsfall, James G. & Kenneth F. Baker, (editors). Annual Review of phytopathology. v 5. 1967. P 391 - 432.
SUBJECT Fruits
Vegetables.

ROOT AND TUBER CROPS

ORDER R00596
AUTHOR NEELAKANTAN-S. MANIMEGALI-G.
TITLE Postharvest Deterioration and Storage of Cassava Tubers. (5 p. 1980.) /Cold storage. Freezing. Dips. Fungicides. Fumigation. Clamps./
SOURCE National Seminar on Tuber Crops Production Technology. 21-22 November 1980. Coimbatore, India: Tamil Nadu Agricultural University. p 97-101.
SUBJECT 1540 Cassava

ORDER R00797
AUTHOR ADESIYAN-S-O.
TITLE Studies on the Effect of Gamma Radiation (from cobalt 60 source) on storage life of white yam (Dioscorea rotundata var. Efon) infected with Scutellonema bradys.
SOURCE Annals of Applied Biology. v 86. no 2. 1977. P 213-218.
SUBJECT Yams.

ORDER R00857
AUTHOR AZHAR-A. HAMDY-M-K.
TITLE Sonication effect on potato starch and sweet potato powder. (5 p. 1979). /Ultrasonic radiation. Irradiation. Fermentation./
SOURCE Journal of Food Science. v 44. n 3. May/June 1979. p 801-804.
SUBJECT Sweet Potatoes 1580
Potatoes 0210

ORDER R00954
AUTHOR MUKHIN-E-N.
TITLE The action of ionizing radiation of the resistance of potato tubers to fungi (Fusarium spp.). (5 p. 1959.)
SOURCE Doklady Vsesoyuznoi Ordena Lenina Akademii Sel'skokhozy Aistvennykh-Nauk Imeni V.I. Lenina. n 9. 1959. P 14-17. In Selected Articles on the Use of Ionizing Radiation in Potato Storage and Disease Problems. Translated from Russian & published pursuant to an agreement with the Department of Agriculture & the National Science Foundation, by the Israel Program for Scientific Translations. Jerusalem. 1963. P 76-79.
SUBJECT Potatoes 0210

ORDER R01226
AUTHOR ADESUYI-S-A.
TITLE The Application of Advanced Technology to the Improvement of Yam Storage. (8 p. 1982.) /Comparison of gamma irradiation vs. cool storage in terms of practicability in developing countries./
SOURCE Miege, J. & S.M. Lyonga (eds). Yams. Ignames. New York: Oxford University Press. ISBN: 0-19-854557-6. 1982. p 313-319.
SUBJECT Yams 1587

ORDER R01227
AUTHOR DEMEAUX-M. BABACAUH-K-D. VIVIER-P.
TITLE Problemes poses par la conservation des ignames en Cote d'Ivoire et essais de techniques pour les resoudre. (9 p. 1982.) /French. Storage. Efficiency of thiabendazole. Gamma irradiation. Controlled atmosphere./
SOURCE Miege, J. & S.M. Lyonga (eds). Yams. Ignames. New York: Oxford University Press. ISBN: 0-19-854557-6. 1982. p 320-328.
SUBJECT Yams 1587

ORDER R01387
AUTHOR GRUENEWALD-T.
TITLE Experience in Irradiating Potatoes. (7 p. 1973.) /Part of G02666. Industrial processing. Storage./
SOURCE Aspects of the Introduction of Food Irradiation in Developing Countries. Proceedings of a Panel to Consider the Application of Food Irradiation in Developing Countries Organized by the Joint FAO/IAEA Division of Atomic Energy in Food and Agriculture. Held-in Bombay November 18-22, 1972. IAEA-PL-518/2. p 7-12.
SUBJECT Potatoes 0210

ORDER R01408
AUTHOR UMEDA-Keiji.
TITLE The First Potato Irradiator in Japan - the Successes and Setbacks Encountered During Three Year Commercial Operation. /Irradiation. Harvesting, storage & distribution procedures. Market price fluctuation. Operational costs./
SOURCE Food Irradiation Information. n 8. February, 1978. ISSN: 0301-049X. p 31-40.
SUBJECT Potatoes 0210

ORDER R01409
AUTHOR THOMAS-Paul.
TITLE Radiation Preservation of Foods of Plant Origin. Part I. Potatoes and other Tuber Crops. /Irradiation. Postharvest losses. Storage & preservation. Sprout inhibition. Metabolic changes. Storage rots. Discoloration. Industrial processing. Test marketing. Yams 1587./
SOURCE CRC Critical Reviews in Food Science and Nutrition. v 19. n 4. 1984. p 327-379.
SUBJECT Potatoes 0210 Roots & Tubers 1500

ORDER R01410
AUTHOR CURZIO-o-A. CROCI-C-A.
TITLE Extending Onion Storage Life by Gamma - Irradiation.
SOURCE Journal of Food Processing and Preservation. v 7. n 1. 1983. p 19-23.
SUBJECT Onions 1740

ORDER R01411-AUTHOR CROCI-C-A. CURZIO-O-A.
TITLE The Influence of Gamma - Irradiation on the Storage Life of 'Red' Variety Garlic.
SOURCE Journal of Food Processing and Preservation. v 7. n 3. 1983. p 179-183.
SUBJECT Garlic 1720

ORDER R01449
AUTHOR ADESUYI-S-A. MACKENZIE-J-A.
TITLE The Inhibition of Sprouting in Stored Yams, Dioscorea rotundata Poir, by Gamma Radiation and Chemicals. /Irradiation. Maleic hydrazide. Tetrachloro-nitrobenzene. 1-naphthylacetic acid. Methylester of 1-naphthylacetic acid. Rot. Weight./
SOURCE Radiation Preservation of Food. Proceedings of a Symposium jointly organized by the IAEA and FAO, Bombay, 13-17 November 1972. International Atomic Energy Agency. Vienna. 1973. p 127-136.
SUBJECT Yams 1587

ORDER R01456
AUTHOR BANDYOPADHYAY-C. TEWARI-G-M. SREENIVASAN-A.
TITLE Studies on some Chemical Aspects of Gamma-Irradiate Onions. /Irradiation. Sprouting. Volatile & non-volatile components./
SOURCE Radiation Preservation of Food. Proceedings of a Symposium jointly organized by the IAEA and FAO, Bombay, 13-17 November 1972. International Atomic Energy Agency. Vienna. 1973. p 11-19.
SUBJECT Onions 1740

SPICES AND BEVERAGE CROPS

ORDER S00266
AUTHOR ZEHNDER-H-J.
TITLE Reduction of Microorganisms in Spices by Ionizing Radiation. 2. Effect on Pungency of Black Pepper. (6 p. 1980.) /Irradiation./
SOURCE Alimenta. v 19. n 1. 1980. p 17-20.
SUBJECT Pepper 2320

ORDER S00349
AUTHOR BACHMAN-Stefania. GIESZCZYNSKA-Janina.
TITLE Studies on Some Microbiological and Chemical Aspects of Irradiated Spices. (11 p. 1972.) /Part of G02666. Storage. Oil./
SOURCE Aspects of the Introduction of Food Irradiation in Developing Countries. Proceedings of a Panel to Consider the Application of Food Irradiation in Developing Countries Organized by the Joint FAO/IAEA Division of Atomic Energy in Food and Agriculture. Held in Bombay November 18-22, 1972. IAEA-PL-518/5. p 33-42.
SUBJECT Spices 2200

ORDER S00350
AUTHOR FARKAS-J.
TITLE Radurization and Radicidation of Spices. (18 p. 1972.) /Part of G02666. World trade. Canning. Meat processing. Fumigation. Decontamination./
SOURCE Aspects of the Introduction of Food Irradiation in Developing Countries. Proceedings of a Panel to Consider the Application of Food Irradiation in Developing Countries Organized by the Joint FAO/IAEA Division of Atomic Energy in Food and Agriculture. Held in Bombay November 18-22, 1972. IAEA-PL-518/6. p 43-60.
SUBJECT Spices 2200

ORDER S00355
AUTHOR KISS-I.
TITLE Reduction of Microbial Contamination of Spices by Irradiation.
SOURCE Proceedings of the European Meeting of Meat Research Workers. v 1. n 28. 1982. p 322-325.
SUBJECT Spices 2200

ORDER S00357
AUTHOR FARKAS-J. BECZNER-J. INCZE-K.
TITLE Feasibility of Irradiation of Spices with Special Reference to Paprika. /Ground paprika. Moisture content. Non-microbiological characteristics. Quality of brawn./
SOURCE Radiation Preservation of Food. Proceedings of a Symposium jointly organized by the IAEA and FAO, Bombay, 13-17 November 1972. International Atomic Energy Agency. Vienna. 1973. p 389-402.
SUBJECT Paprika 2390

VEGETABLES

ORDER V00033
AUTHOR GARRETT-Roger-E.
TITLE Safety Features of a Lettuce Harvester Using Gamma Radiation. (5 p. 1972.)
SOURCE American Society of Agricultural Engineers. International Conference on Tropical and Subtropical Agriculture. Honolulu, Hawaii, April 11-13, 1972. Special publication IP-01-72. 1972. p 263-267.
SUBJECT Lettuce 1660

ORDER V00491
AUTHOR BRAMLAGE-William-J. LIPSON-Werner-J.
TITLE Gamma Radiation of Vegetables to Extend Market Life. (20 p. 1965.)
SOURCE U. S. Department of Agriculture. Agricultural Research Service. Marketing Research Report No. 703. Washington, DC. 1965. 14 + vi p.
SUBJECT Vegetables 1300

ORDER V00509
AUTHOR SASTRY-Sudhir-K. BUFFINGTON-Dennis-E.
TITLE Effects of infrared radiation and forced heat air curing treatments on the salability of Florida onions. (6 p. 1975.)
SOURCE Proceedings of the Florida State Horticulture Society. Lake Buena Vista. v 88. November 4-6, 1975. p. 249-253.
SUBJECT Onions 1740

ORDER V00639
AUTHOR MENNITI-M.
TITLE Effetti biopatolocici delle radiazioni onizzanti sulle cipolle. (4 p. 1975?) /ITALIAN. Irradiation. Biological Effects./
SOURCE Notiziario del CRIOF. Centro Sperimentale di Conservazione e-Tranformazione de Prodotti Ortofrutticoli. Universita de Bologna. n X-XI. 1975?. p. 51-53.
SUBJECT Onions 1740.

ORDER V00845
AUTHOR ECHANDI-Ronald-J. CHASE-Betty-R. Massey-Louis-M-Jr.
TITLE Effect of Gamma Radiation on Polysaccharides and Calcium Distribution in Carrot Cell Walls. (3 p. 1970.)
SOURCE Agricultural and Food Chemistry. v 18. n 5. September-October, 1970. p 878-880.
SUBJECT Carrots 1530

ORDER V00856
AUTHOR BOURKE-J-B. STILLINGS-B-R. MASSEY-L-M-Jr.
TITLE Free Amino Acids in Gamma-irradiated Carrots. (7 p. 1967.) /Radiosensitivity of Free Amino Acids. Radiosensitivity of Amino Acid Synthesis./
SOURCE Radiation Research. v 30. n 3. March, 1967. p 569-575.
SUBJECT Carrots 1530

ORDER V00857
AUTHOR MASSEY-L-M-Jr. TALLMAN-D-F. KERTESZ-Z-I.
TITLE Effect of Ionizing Radiations on Plant Tissues. V. Some Effects of Gamma Radiation on Lettuce Leaves. (8 p. 1961.)
SOURCE Journal of Food Science. v 26. n 4. 1961. p 389-396.
SUBJECT Lettuce 1660 CCC $2.25

ORDER V00858
AUTHOR BOURKE-J-B. MASSEY-L-M-Jr.
TITLE The Influence of Gamma Radiation on Carbohydrate and Citric Acid Cycle Metabolism in Carrot Tissue. (13 p. 1967.) Glucose Metabolism. Pyruvate Metabolism. Acetate & Succinate Metabolism./
SOURCE Radiation Research. v 31. n 4. August, 1967. p 783-795.
SUBJECT Carrots 1530

ORDER V00859
AUTHOR FAUST-Miklos. CHASE-Betty-R. MASSEY-L-M-Jr.
TITLE Effect of Irradiated Sucrose on Carbohydrate Metabolism of Carrot Cells. (5 p. 1967.) /A study of the utilization of specifically labeled substrates in the presence of gamma irradiated aqueous sucrose./
SOURCE Radiation Research. v 31. n 2. June, 1967. p 201-205.
SUBJECT Carrots 1530

ORDER V00860
AUTHOR ECHANDI-R-J. MASSEY-L-M-Jr.
TITLE Loss of Electrolytes and Amino Acids from Gamma-Irradiated Carrots. (7 p. 1970.) /Electrolyte Leakage. Amino acid Leakage.
SOURCE Radiation Research. v 43. n 2. August, 1970. p 372-378.
SUBJECT Carrots 1530

ORDER V00907
AUTHOR NICHOLS-R.
TITLE III. Special Research Report. I. A Review of the Factors Affecting the Deterioration of Harvested Mushrooms. (5 p. 1970.) /Physical & chemical changes. Treatments to delay aging: Chemical treatments, temperature, controlled atmosphere storage, Packaging in vapour-barrier films, irradiation./
SOURCE Report of the Glasshouse Crops Research Institute - 1970. 1971. p 174-178.
SUBJECT Mushrooms 1885

ORDER V01047
AUTHOR ROY-M-K. BAHL-N.
TITLE Gamma Radiation for Preservation of Agaricus bisporus. /Irradiation./
SOURCE Mushroom Journal. n 136. 1984. p 124-125.
SUBJECT Mushrooms 1885

ORDER V01048
AUTHOR ROY-M-K.
TITLE Radiation, Heat and Chemical Combination in the Control of Rhizopus nigricans in Tomato Fruits. /Irradiation./
SOURCE Journal of Nuclear Agriculture and Biology. v 10. n 1. p 8-9.
SUBJECT Tomatoes 1850

ORDER V01049
AUTHOR STEWART-Joseph-K.
TITLE Commercial-Scale Vacuum Fumigation with Ethyl Formate for Postharvest Control of the Green Peach Aphid (Homoptera: Aphididae) on Film-Wrapped Lettuce.
SOURCE Journal of Economic Entomology. v 77. n 3. June, 1984. P 569-573.
SUBJECT Lettuce 1660

ORDER V01050
AUTHOR STEWART-Joseph-K. AHARONI-Yair.
TITLE Vacuum Fumigation with Ethyl Formate to Control the Green Peach Aphid in Packaged Head Lettuce.
SOURCE Journal of the American Society for Horticultural Science. v 108. n 2. March, 1983. p 295-298.
SUBJECT Lettuce 1660

ORDER V01052
AUTHOR CABRERA-M-L. LOYOLA-V-V. CARRASCO-A-H.
TITLE Preservacion de jitomates por irradiacion gamma. /Spanish. Preservation of Tomatoes by Gamma Irradiation. Chemical & physical changes during post - irradiation storage of tomatoes./
SOURCE Radiation Preservation of Food. Proceedings of a Symposium jointly organized by the IAEA and FAO, Bombay, 13-17 November 1972. International Atomic Energy Agency. Vienna. 1973. p 47-58.
SUBJECT Tomatoes 1850

APPENDICES

Appendix I

Chemicals Listed by Alternate Names

Alternate names	Indexed term	Registry no.	Formula
allethrin(e)	chlorpyrifos	584-79-2	$C_{19}H_{26}O_3$
allyl isothiocyanate	2-propenyl isothiocyanate	57-06-7	C_4H_5NS
(allyl) mustard oil	2-propenyl isothiocyanate	57-06-7	C_4H_5NS
allylsenevol	2-propenyl isothiocyanate	57-06-7	C_4H_5NS
aluminum phosphide	phostoxin	2.85[illegible]-73-8	AlP
Benlate	benomyl	17804-35-2	$C_{14}H_{18}N_4O$
Birlane	chlorfenvinphos	470-90-6	$C_{12}H_{14}Cl_3$
bromoethane	ethyl bromide	74-96-4	C_2H_5Br
bromomethane	methyl bromide	74-83-9	CH_3Br
carbon bisulphide	carbon disulfide	75-15-0	CS_2
carbonic anhydride	carbon dioxide	124-38-9	CO_2
carbonic dichloride	phosgene	75-44-5	CCl_2O
carbonyl chloride	phosgene	75-44-5	CCl_2O
Carbospol	2-propenyl isothiocyanate	57-06-7	C_4H_5NS
chloroformicesther	methyl monochloroacetate	541-41-3	$C_3H_5ClO_2$
chloroformyl chloride	phosgene	75-44-5	CCl_2O
Chloromethyloxiran	epichlorohydrin	106-89-8	C_3H_5ClO
Cyangas	hydrocyanic acid	74-90-8	CHN
Cymag	hydrocyanic acid	74-90-8	CHN
Detia gas	phosphine	7803-51-2	PH_3
diethyl phosphate	chlorfenvinphos	470-90-6	$C_{12}H_{14}Cl$
Dowfume MC-2	methyl bromide	74-83-9	CH_3Br
DuPont 1991	benomyl	17804-35-2	$C_{14}H_{18}N_4O$
Dyfonate	fonofos	944-22-9	$C_{10}H_{15}OPS$
Epoxyethane	ethylene oxide	75-21-8	C_2H_4O
Equizole	Thiabendazole	148-79-8	$C_{10}H_7N_3S$
ethyl carbonochloridate	methyl monochloroacetate	541-41-3	$C_3H_5ClO_2$
ethyl chlorocarbonate	methyl monochloroacetate	541-41-3	$C_3H_5ClO_2$
ethyl chloroformate	methyl monochloroacetate	541-41-3	$C_3H_5ClO_2$
ethylene bromochloride	ethylene chlorobromide	107-04-0	C_2H_4BrCl
EDC	ethylene dichloride	107-06-2	$C_2H_4Cl_2$
Folosan	tetrachloro-3-nitrobenzene	117-18-0	$C_6HCl_4NO_2$
Fruitone-N	naphthylacetic acid	86-87-3	$C_{12}H_{10}O_2$
Fumazone	DBCP	96-12-8	$C_8H_{13}N_2O_2$
Fusarex	tetrachloro-3-nitrobenzene	117-18-0	$C_6HCl_4NO_2$
hydrogen cyanide	hydrocyanic acid	4-90-8	CHN
Lanate	methomyl	152-77-5	$C_5H_{10}N_2O_2$
Mertec	Thiabendazole	148-79-8	$C_{10}H_7N_3S$
methyl chloroacetate	methyl monochloroacetate	541-41-3	$C_3H_5ClO_2$
methylallyl chloride	methallyl chloride	563-47-3	C_4H_7Cl
Mintezol	Thiabendazole	148-79-8	$C_{10}H_7N_3S$
MH-30	maleic hydrazide	123-33-1	$C_4H_4N_2O_2$
Nemagon	DBCP	96-12-8	$C_8H_{13}N_2O_2$
NAA	naphthylacetic acid	86-87-3	$C_{12}H_{10}O_2$
Oxirane	ethylene oxide	75-21-8	C_2H_4O
Pallethrine	chlorpyrifos	584-79-2	$C_{19}H_{26}O_3$
Phyomone	naphthylacetic acid	86-87-3	$C_{12}H_{10}O_2$
prussic acid	hydrocyanic acid	74-90-8	CHN
Pynamin	chlorpyrifos	584-79-2	$C_{19}H_{26}O_3$
Redskin	2-propenyl isothiocyanate	57-06-7	C_4H_5NS
Rootone	naphthylacetic acid	86-87-3	$C_{12}H_{10}O_2$
Sapecron	chlorfenvinphos	470-90-6	$C_{12}H_{14}Cl_3$
Sesamex	acetaldehyde	51-14-9	$C_{15}H_{22}O_6$
Sesoxane	acetaldehyde	51-14-9	$C_{15}H_{22}O_6$
Storite	Thiabendazole	148-79-8	$C_{10}H_7N_3S$
sym-chlorobromoethane	ethylene chlorobromide	107-04-0	C_2H_4BrCl
TBZ	Thiabendazole	148-79-8	$C_{10}H_7N_3S$
TCNB	tetrachloro-3-nitrobenzene	117-18-0	$C_6HCl_4NO_2$
Tecnazene	tetrachloro-3-nitrobenzene	117-18-0	$C_6HCl_4NO_2$
Tecto	Thiabendazole	148-79-8	$C_{10}H_7N_3S$
tetrachloromethane	carbon tetrachloride	56-23-5	CCl_4
trichloronitromethane	chloropicrin	76-06-2	CCl_3NO_2
Ventox	acrylonitrile	107-13-1	C_3H_3N
vinyl cyanide	acrylonitrile	107-13-1	C_3H_3N
1-bromo-2-chloroethane	ethylene chlorobromide	107-04-0	C_2H_4BrCl
1-isothiocyanatopropane	propyl isothiocyanate	628-30-8	C_4H_7NS
1,2-dibromo-3-chloro-propane	DBCP	96-12-8	$C_8H_{13}N_2O_2$
1,2-dichloroethane	ethylene dichloride	107-06-2	$C_2H_4Cl_2$
2-propenonitrile	acrylonitrile	107-13-1	C_3H_3N
3-chloroisobutene	methallyl chloride	563-47-3	C_4H_7Cl
3-chloropropylene oxide	epichlorohydrin	106-89-8	C_3H_5ClO

Chemicals Indexed by Registry Number

Registry No	Indexed term	Alternate names	Formula
51-03-6	piperonyl butoxide		$C_{19}H_{30}O_5$
51-14-9	acetaldehyde	Sesamex	$C_{15}H_{22}O_6$
51-14-9	acetaldehyde	Sesoxane	$C_{15}H_{22}O_6$
52-77-5	methomyl	Lanate	$C_5H_{10}N_2O_2$
56-23-5	carbon tetrachloride	tetrachloromethane	CCl_4
57-06-7	2-propenyl isothiocyanate	allyl isothiocyanate	C_4H_5NS
57-06-7	2-propenyl isothiocyanate	(allyl) mustard oil	C_4H_5NS
57-06-7	2-propenyl isothiocyanate	allylsenevol	C_4H_5NS
57-06-7	2-propenyl isothiocyanate	Carbospol	C_4H_5NS
57-06-7	2-propenyl isothiocyanate	Redskin	C_4H_5NS
74-83-9	methyl bromide	bromomethane	CH_3Br
74-83-9	methyl bromide	Dowfume MC-2	CH_3Br
74-90-8	hydrocyanic acid	hydrogen cyanide	CHN
74-90-8	hydrocyanic acid	prussic acid	CHN
74-90-8	hydrocyanic acid	Cyangas	CHN
74-90-8	hydrocyanic acid	Cymag	CHN
74-96-4	ethyl bromide	bromoethane	C_2H_5Br
75-15-0	carbon disulfide	carbon bisulphide	CS_2
75-21-8	ethylene oxide	Epoxyethane	C_2H_4O
75-21-8	ethylene oxide	Oxirane	C_2H_4O
75-44-5	phosgene	carbonic dichloride	CCl_2O
75-44-5	phosgene	carbonyl chloride	CCl_2O
75-44-5	phosgene	chloroformyl chloride	CCl_2O
76-06-2	chloropicrin	trichloronitromethane	CCl_3NO_2
86-87-3	naphthylacetic acid	Fruitone-N	$C_{12}H_{10}O_2$
86-87-3	naphthylacetic acid	NAA	$C_{12}H_{10}O_2$
86-87-3	naphthylacetic acid	Phyomone	$C_{12}H_{10}O_2$
86-87-3	naphthylacetic acid	Rootone	$C_{12}H_{10}O_2$
96-12-8	DBCP	Fumazone	$C_8H_{13}N_2O_2$
96-12-8	DBCP	Nemagon	$C_8H_{13}N_2O_2$
96-12-8	DBCP	1,2-dibromo-3-chloro-propane	$C_8H_{13}N_2O_2$
106-89-8	epichlorohydrin	Chloromethyloxiran	C_3H_5ClO
106-89-8	epichlorohydrin	3-chloropropylene oxide	C_3H_5ClO
107-04-0	ethylene chlorobromide	ethylene bromochloride	C_2H_4BrCl
107-04-0	ethylene chlorobromide	sym-chlorobromoethane	C_2H_4BrCl
107-04-0	ethylene chlorobromide	1-bromo-2-chloroethane	C_2H_4BrCl
107-06-2	ethylene dichloride	EDC	$C_2H_4Cl_2$
107-06-2	ethylene dichloride	1,2-dichloroethane	$C_2H_4Cl_2$
107-13-1	acrylonitrile	vinyl cyanide	C_3H_3N
107-13-1	acrylonitrile	Ventox	C_3H_3N
107-13-1	acrylonitrile	2-propenenitrile	C_3H_3N
109-94-4	ethyl formate		$C_3H_6O_2$
117-18-0	tetrachloro-3-nitrobenzene	Folosan	$C_6HCl_4NO_2$
117-18-0	tetrachloro-3-nitrobenzene	Fusarex	$C_6HCl_4NO_2$
117-18-0	tetrachloro-3-nitrobenzene	Tecnazene	$C_6HCl_4NO_2$
117-18-0	tetrachloro-3-nitrobenzene	TCNB	$C_6HCl_4NO_2$
123-33-1	maleic hydrazide	MH-30	$C_4H_4N_2O_2$
124-38-9	carbon dioxide	carbonic anhydride	CO_2
148-79-8	Thiabendazole	Equizole	$C_{10}H_7N_3S$
148-79-8	Thiabendazole	Mertec	$C_{10}H_7N_3S$
148-79-8	Thiabendazole	Mintezol	$C_{10}H_7N_3S$
148-79-8	Thiabendazole	Storite	$C_{10}H_7N_3S$
148-79-8	Thiabendazole	Tecto	$C_{10}H_7N_3S$
148-79-8	Thiabendazole	TBZ	$C_{10}H_7N_3S$
470-90-6	chlorfenvinphos	diethyl phosphate	$C_{12}H_{14}Cl$
470-90-6	chlorfenvinphos	Birlane	$C_{12}H_{14}Cl_3$
470-90-6	chlorfenvinphos	Sapecron	$C_{12}H_{14}Cl_3$
541-41-3	methyl monochloroacetate	chloroformic ester	$C_3H_5ClO_2$
541-41-3	methyl monochloroacetate	ethyl carbonochloridate	$C_3H_5ClO_2$
541-41-3	methyl monochloroacetate	ethyl chlorocarbonate	$C_3H_5ClO_2$
541-41-3	methyl monochloroacetate	ethyl chloroformate	$C_3H_5ClO_2$
541-41-3	methyl monochloroacetate	methyl chloroacetate	$C_3H_5ClO_2$
563-47-3	methallyl chloride	methylallyl chloride	C_4H_7Cl
563-47-3	methallyl chloride	3-chloroisobutene	C_4H_7Cl
584-79-2	chlorpyrifos	allethrin(e)	$C_{19}H_{26}O_3$
584-79-2	chlorpyrifos	Pallethrine	$C_{19}H_{26}O_3$
584-79-2	chlorpyrifos	Pynamin	$C_{19}H_{26}O_3$
628-30-8	propyl isothiocyanate	1-isothiocyanatopropane	C_4H_7NS
944-22-9	fonofos	Dyfonate	$C_{10}H_{15}OPS$
7803-51-2	phosphine	Detia gas	PH_3
13863-41-7	bromine chloride		BrCl
17804-35-2	benomyl	Benlate	$C_{14}H_{18}N_4O$
17804-35-2	benomyl	DuPont 1991	$C_{14}H_{18}N_4O$
20859-73-8	phostoxin	aluminum phosphide	AlP
51913-28-1	magnesium phosphide		MgP_4

Formula	Indexed term	Alternate names	Registry No.
AlP	phostoxin	aluminum phosphide	20859-73-8
BrCl	bromine chloride		13863-41-7
CCl_2O	phosgene	carbonic dichloride	75-44-5
CCl_2O	phosgene	carbonyl chloride	75-44-5
CCl_2O	phosgene	chloroformyl chloride	75-44-5
CCl_3NO_2	chloropicrin	trichloronitromethane	76-06-2
CCl_4	carbon tetrachloride	tetrachloromethane	56-23-5
CHN	hydrocyanic acid	Cyangas	74-90-8
CHN	hydrocyanic acid	Cymag	74-90-8
CHN	hydrocyanic acid	hydrogen cyanide	74-90-8
CHN	hydrocyanic acid	prussic acid	74-90-8
CH_3Br	methyl bromide	bromomethane	74-83-9
CH_3Br	methyl bromide	Dowfume MC-2	74-83-9
CO_2	carbon dioxide	carbonic anhydride	124-38-9
CS_2	carbon disulfide	carbon bisulphide	75-15-0
C_2H_4BrCl	ethylene chlorobromide	ethylene bromochloride	107-04-0
C_2H_4BrCl	ethylene chlorobromide	sym-chlorobromoethane	107-04-0
C_2H_4BrCl	ethylene chlorobromide	1-bromo-2-chloroethane	107-04-0
$C_2H_4Cl_2$	ethylene dichloride	EDC	107-06-2
$C_2H_4Cl_2$	ethylene dichloride	1,2-dichloroethane	107-06-2
C_2H_4O	ethylene oxide	Epoxyethane	75-21-8
C_2H_4O	ethylene oxide	Oxirane	75-21-8
C_2H_5Br	ethyl bromide	bromoethane	74-96-4
C_3H_3N	acrylonitrile	Ventox	107-13-1
C_3H_3N	acrylonitrile	vinyl cyanide	107-13-1
C_3H_3N	acrylonitrile	2-propenenitrile	107-13-1
$C_3H_5ClO_2$	methyl monochloroacetate	chloroformicesther	541-41-3
$C_3H_5ClO_2$	methyl monochloroacetate	ethyl carbonochloridate	541-41-3
$C_3H_5ClO_2$	methyl monochloroacetate	ethyl chlorocarbonate	541-41-3
$C_3H_5ClO_2$	methyl monochloroacetate	ethyl chloroformate	541-41-3
$C_3H_5ClO_2$	methyl monochloroacetate	methyl chloroacetate	541-41-3
C_3H_5ClO	epichlorohydrin	Chloromethyloxiran	106-89-8
C_3H_5ClO	epichlorohydrin	3-chloropropylene oxide	106-89-8
$C_3H_6O_2$	ethyl formate		109-94-4
$C_4H_4N_2O_2$	maleic hydrazide	MH-30	123-33-1
C_4H_5NS	2-propenyl isothiocyanate	allyl isothiocyanate	57-06-7
C_4H_5NS	2-propenyl isothiocyanate	(allyl) mustard oil	57-06-7
C_4H_5NS	2-propenyl isothiocyanate	Allylsenevol	57-06-7
C_4H_5NS	2-propenyl isothiocyanate	Carbospol	57-06-7
C_4H_5NS	2-propenyl isothiocyanate	Redskin	57-06-7
C_4H_7Cl	methallyl chloride	methylallyl chloride	563-47-3
C_4H_7Cl	methallyl chloride	3-chloroisobutene	563-47-3
C_4H_7NS	propyl isothiocyanate	1-isothiocyanatopropane	628-30-8
$C_5H_{10}N_2O_2$	methomyl	Lanate	52-77-5
$C_6HCl_4NO_2$	tetrachloro-3-nitrobenzene	Folosan	117-18-0
$C_6HCl_4NO_2$	tetrachloro-3-nitrobenzene	Fusarex	117-18-0
$C_6HCl_4NO_2$	tetrachloro-3-nitrobenzene	TCNB	117-18-0
$C_6HCl_4NO_2$	tetrachloro-3-nitrobenzene	Tecnazene	117-18-0
$C_8H_{13}N_2O_2$	DBCP	Fumazone	96-12-8
$C_8H_{13}N_2O_2$	DBCP	Nemagon	96-12-8
$C_8H_{13}N_2O_2$	DBCP	1,2-dibromo-3-chloro-propane	96-12-8
$C_{10}H_{15}OPS$	fonofos	Dyfonate	944-22-9
$C_{10}H_7N_3S$	Thiabendazole	Equizole	148-79-8
$C_{10}H_7N_3S$	Thiabendazole	Mertec	148-79-8
$C_{10}H_7N_3S$	Thiabendazole	Mintezol	148-79-8
$C_{10}H_7N_3S$	Thiabendazole	Storite	148-79-8
$C_{10}H_7N_3S$	Thiabendazole	TBZ	148-79-8
$C_{10}H_7N_3S$	Thiabendazole	Tecto	148-79-8
$C_{12}H_{10}O_2$	naphthylacetic acid	Fruitone-N	86-87-3
$C_{12}H_{10}O_2$	naphthylacetic acid	NAA	86-87-3
$C_{12}H_{10}O_2$	naphthylacetic acid	Phyomone	86-87-3
$C_{12}H_{10}O_2$	naphthylacetic acid	Rootone	86-87-3
$C_{12}H_{14}Cl_3$	chlorfenvinphos	Birlane	470-90-6
$C_{12}H_{14}Cl$	chlorfenvinphos	diethyl phosphate	470-90-6
$C_{12}H_{14}Cl_3$	chlorfenvinphos	Sapecron	470-90-6
$C_{14}H_{18}N_4O$	benomyl	Benlate	17804-35-2
$C_{14}H_{18}N_4O$	benomyl	DuPont 1991	17804-35-2
$C_{15}H_{22}O_6$	acetaldehyde	Sesamex	51-14-9
$C_{15}H_{22}O_6$	acetaldehyde	Sesoxane	51-14-9
$C_{19}H_{26}O_3$	chlorpyrifos	allethrin(e)	584-79-2
$C_{19}H_{26}O_3$	chlorpyrifos	Pallethrine	584-79-2
$C_{19}H_{26}O_3$	chlorpyrifos	Pynamin	584-79-2
$C_{19}H_{30}O_5$	piperonyl butoxide		51-03-6
MgP_4	magnesium phosphide		51913-28-1
PH_3	phosphine	Detia gas	7803-51-2

Indexed term	Alternate names	Registry No.	Formula
acetaldehyde	Sesamex	51-14-9	$C_{15}H_{22}O_6$
acetaldehyde	Sesoxane	51-14-9	$C_{15}H_{22}O_6$
acrylonitrile	Ventox	107-13-1	C_3H_3N
acrylonitrile	vinyl cyanide	107-13-1	C_3H_3N
acrylonitrile	2-propenenitrile	107-13-1	C_3H_3N
benomyl	Benlate	17804-35-2	$C_{14}H_{18}N_4O$
benomyl	DuPont 1991	17804-35-2	$C_{14}H_{18}N_4O$
bromine chloride		13863-41-7	BrCl
carbon dioxide	carbonic anhydride	124-38-9	CO_2
carbon disulfide	carbon bisulphide	75-15-0	CS_2
carbon tetrachloride	tetrachloromethane	56-23-5	CCl_4
chlorfenvinphos	Birlane	470-90-6	$C_{12}H_{14}Cl_3$
chlorfenvinphos	diethyl phosphate	470-90-6	$C_{12}H_{14}Cl_3$
chlorfenvinphos	Sapecron	470-90-6	$C_{12}H_{14}Cl_3$
chloropicrin	trichloronitromethane	76-06-2	CCl_3NO_2
chlorpyrifos	Allethrin(e)	584-79-2	$C_{19}H_{26}O_3$
chlorpyrifos	Pallethrine	584-79-2	$C_{19}H_{26}O_3$
chlorpyrifos	Pynamin	584-79-2	$C_{19}H_{26}O_3$
DBCP	Fumazone	96-12-8	$C_8H_{13}N_2O_2$
DBCP	Nemagon	96-12-8	$C_8H_{13}N_2O_2$
DBCP	1,2-dibromo-3-chloro-propane	96-12-8	$C_8H_{13}N_2O_2$
epichlorohydrin	Chloromethyloxiran	106-89-8	C_3H_5ClO
epichlorohydrin	3-chloropropylene oxide	106-89-8	C_3H_5ClO
ethyl bromide	bromoethane	74-96-4	C_2H_5Br
ethyl formate		109-94-4	$C_3H_6O_2$
ethylene chlorobromide	ethylene bromochloride	107-04-0	C_2H_4BrCl
ethylene chlorobromide	sym-chlorobromoethane	107-04-0	C_2H_4BrCl
ethylene chlorobromide	1-bromo-2-chloroethane	107-04-0	C_2H_4BrCl
ethylene dichloride	EDC	107-06-2	$C_2H_4Cl_2$
ethylene dichloride	1,2-dichloroethane	107-06-2	$C_2H_4Cl_2$
ethylene oxide	Epoxyethane	75-21-8	C_2H_4O
ethylene oxide	Oxirane	75-21-8	C_2H_4O
fonofos	Dyfonate	944-22-9	$C_{10}H_{15}OPS$
hydrocyanic acid	Cyangas	74-90-8	CHN
hydrocyanic acid	Cymag	74-90-8	CHN
hydrocyanic acid	hydrogen cyanide	74-90-8	CHN
hydrocyanic acid	prussic acid	74-90-8	CHN
magnesium phosphide		51913-28-1	MgP_4
maleic hydrazide	MH-30	123-33-1	$C_4H_4N_2O_2$
methallyl chloride	methylallyl chloride	563-47-3	C_4H_7Cl
methallyl chloride	3-chloroisobutene	563-47-3	C_4H_7Cl
methomyl	Lanate	52-77-5	$C_5H_{10}N_2O_2$
methyl bromide	bromomethane	74-83-9	CH_3Br
methyl bromide	Dowfume MC-2	74-83-9	CH_3Br
methyl monochloroacetate	ethyl carbonochloridate	541-41-3	$C_3H_5ClO_2$
methyl monochloroacetate	ethyl chlorocarbonate	541-41-3	$C_3H_5ClO_2$
methyl monochloroacetate	ethyl chloroformate	541-41-3	$C_3H_5ClO_2$
methyl monochloroacetate	methyl chloroacetate	541-41-3	$C_3H_5ClO_2$
methyl monochloroacetate	Chloroformicesther	541-41-3	$C_3H_5ClO_2$
naphthylacetic acid	Fruitone-N	86-87-3	$C_{12}H_{10}O_2$
naphthylacetic acid	NAA	86-87-3	$C_{12}H_{10}O_2$
naphthylacetic acid	Phyomone	86-87-3	$C_{12}H_{10}O_2$
naphthylacetic acid	Rootone	86-87-3	$C_{12}H_{10}O_2$
phosgene	carbonic dichloride	75-44-5	CCl_2O
phosgene	carbonyl chloride	75-44-5	CCl_2O
phosgene	chloroformyl chloride	75-44-5	CCl_2O
phosphine	Detia gas	7803-51-2	PH_3
phostoxin	aluminum phosphide	20859-73-8	AlP
piperonyl butoxide		51-03-6	$C_{19}H_{30}O_5$
propyl isothiocyanate	1-isothiocyanatopropane	628-30-8	C_4H_7NS
tetrachloro-3-nitrobenzene	Folosan	117-18-0	$C_6HCl_4NO_2$
tetrachloro-3-nitrobenzene	Fusarex	117-18-0	$C_6HCl_4NO_2$
tetrachloro-3-nitrobenzene	TCNB	117-18-0	$C_6HCl_4NO_2$
tetrachloro-3-nitrobenzene	Tecnazene	117-18-0	$C_6HCl_4NO_2$
Thiabendazole	Equizole	148-79-8	$C_{10}H_7N_3S$
Thiabendazole	Mertec	148-79-8	$C_{10}H_7N_3S$
Thiabendazole	Mintezol	148-79-8	$C_{10}H_7N_3S$
Thiabendazole	Storite	148-79-8	$C_{10}H_7N_3S$
Thiabendazole	Tecto	148-79-8	$C_{10}H_7N_3S$
Thiabendazole	TBZ	148-79-8	$C_{10}H_7N_3S$
2-propenyl isothiocyanate	allyl isothiocyanate	57-06-7	C_4H_5NS
2-propenyl isothiocyanate	(allyl) mustard oil	57-06-7	C_4H_5NS
2-propenyl isothiocyanate	Allylsenevol	57-06-7	C_4H_5NS
2-propenyl isothiocyanate	Carbospol	57-06-7	C_4H_5NS
2-propenyl isothiocyanate	Redskin	57-06-7	C_4H_5NS

LIST OF ORGANISMS BY ORDER

Order	Family	Scientific Name	Common Name
ACARI	Acaridae		Mites
ACARI	Acaridae	Caloglyphus kramerl	Acaroid mite
ACARI	Acaridae	Tyrophagus putrescentiae	Mold mite
COLEOPTERA	Bostrichidae	Rhyzopertha dominica	Lesser grain borer
COLEOPTERA	Chrysomelidae	Leptinotarsa decemlineata	Colorado potato beetle
COLEOPTERA	Cucujidae	Oryzaephilus surinamensis	Sawtoothed grain beetle
COLEOPTERA	Cuculionidae	Cylas formicarius eleg.	Sweetpotato weevil
COLEOPTERA	Cuculionidae	Sitophilus oryzae	Rice weevil
COLEOPTERA	Cuculionidae	Sitophilus spp.	Weevils
COLEOPTERA	Dermestidae	Attagenus megatoma	Black carpet beetle
COLEOPTERA	Scarabaeidae		Beetles
COLEOPTERA	Scotytidae	Dendroctonus rufipennis	Spruce beetle
COLEOPTERA	Tenebrionidae		Beetles
COLEOPTERA	Tenebrionidae	Tribolium casteneum	Red flour beetle
COLEOPTERA	Tenebrionidae	Tribolium confusum	Confused flour beetle
DIPTERA	Drosophilidae	Drosophila melanogaster	Pomace flies
DIPTERA	Drosophilidae	Drosophila melanogaster	Vinegar flies
DIPTERA	Muscidae	Musca domestica	House fly
DIPTERA	Tephritidae		Fruit flies
DIPTERA	Tephritidae	Anastrepha ludens	Mexican fruit fly
DIPTERA	Tephritidae	Anastrepha suspensa	Caribbean fruit fly
DIPTERA	Tephritidae	Ceratitis capitata	Mediterranean fruit fly
DIPTERA	Tephritidae	Dacus curcurbitae	Melon fly
DIPTERA	Tephritidae	Dacus dorsalis	Oriental fruit fly
DIPTERA	Tephritidae	Dacus tyroni	Queensland fruit fly
DIPTERA	Tephritidae	Rhagoletis indifferens	Western cherry fruit fly
DIPTERA	Tephritidae	Rhagoletis mendax	Blueberry maggots
DIPTERA	Tephritidae	Rhagoletis pomonella	Apple maggots
HOMOPTERA	Aleyradidae	Aleurocanthus woglumi	Citrus black fly
HOMOPTERA	Aphididae	Myzus persicae	Green peach aphid
HOMOPTERA	Diaspididae	Hemiberlesia lataniae	Latania scale
HYMENOPTERA	Formicidae	Solenopsis geminata	Fire ant
LEPIDOPTERA	Gelechiidae	Phthorimaea operculella	Tuber moth
LEPIDOPTERA	Noctuidae	Agrotis spp.	Cutworms
LEPIDOPTERA	Olethreutidae	Carpocapsa pomenella	Codling moth
LEPIDOPTERA	Olethreutidae	Cryptophlebia leucotreta	False codling moth
LEPIDOPTERA	Olethreutidae	Cydia pomonella	Codling moth
LEPIDOPTERA	Olethreutidae	Laspyresia pomonella	Codling moth
LEPIDOPTERA	Pyralidae	Ephestia cautella	Almond moth
LEPIDOPTERA	Pyralidae	Plodia interpunctella	Indian meal moth
THYSANOPTERA	Thripidae		Thrips

LIST OF ORGANISMS BY FAMILIES

Family	Order	Scientific Name	Common Name
Acaridae	ACARI		Mites
Acaridae	ACARI	Tyrophagus putrescentiae	Mold mite
Aleyradidae	HOMOPTERA	Aleurocanthus woglumi	Citrus black fly
Aphididae	HOMOPTERA	Myzus persicae	Green peach aphid
Acaridae	ACARI	Caloglyphus krameri	Acaroid mite
Bostrichidae	COLEOPTERA	Rhyzopertha dominica	Lesser grain borer
Chrysomelidae	COLEOPTERA	Leptinotarsa decemlineata	Colorado potato beetle
Cucujidae	COLEOPTERA	Oryzaephilus surinamensis	Sawtoothed grain beetle
Cuculionidae	COLEOPTERA	Cylas formicarius eleg.	Sweetpotato weevil
Cuculionidae	COLEOPTERA	Sitophilus oryzae	Rice weevil
Cuculionidae	COLEOPTERA	Sitophilus spp.	Weevils
Dermestidae	COLEOPTERA	Attagenus megatoma	Black carpet beetle
Diaspididae	HOMOPTERA	Hemiberlesia lataniae	Latania scale
Drosophilidae	DIPTERA	Drosophila melanogaster	Pomace flies
Drosophilidae	DIPTERA	Drosophila melanogaster	Vinegar flies
Formicidae	HYMENOPTERA	Solenopsis geminata	Fire ant
Gelechiidae	LEPIDOPTERA	Phthorimaea operculella	Tuber moth
Muscidae	DIPTERA	Musca domestica	House fly
Noctuidae	LEPIDOPTERA	Agrotis spp.	Cutworms
Olethreutidae	LEPIDOPTERA	Carpocapsa pomenella	Codling moth
Olethreutidae	LEPIDOPTERA	Cryptophlebia leucotreta	False codling moth
Olethreutidae	LEPIDOPTERA	Cydia pomonella	Codling moth
Olethreutidae	LEPIDOPTERA	Laspyresia pomonella	Codling moth
Pyralidae	LEPIDOPTERA	Ephestia cautella	Almond moth
Pyralidae	LEPIDOPTERA	Plodia interpunctella	Indian meal moth
Scarabaeidae	COLEOPTERA		Beetles
Scotytidae	COLEOPTERA	Dendroctonus rufipennis	Spruce beetle
Tenebrionidae	COLEOPTERA		Beetles
Tenebrionidae	COLEOPTERA	Tribolium casteneum	Red flour beetle
Tenebrionidae	COLEOPTERA	Tribolium confusum	Confused flour beetle
Tephritidae	DIPTERA		Fruit flies
Tephritidae	DIPTERA	Anastrapha ludens	Mexican fruit fly
Tephritidae	DIPTERA	Anastrepha suspensa	Caribbean fruit fly
Tephritidae	DIPTERA	Ceratitis capitata	Mediterranean fruit fly
Tephritidae	DIPTERA	Dacus curcurbitae	Melon fly
Tephritidae	DIPTERA	Dacus dorsal's	Oriental fruit fly
Tephritidae	DIPTERA	Dacus tyroni	Queensland fruit fly
Tephritidae	DIPTERA	Rhagoletis indifferens	Western cherry fruit fly
Tephritidae	DIPTERA	Rhagoletis mendax	Blueberry maggots
Tephritidae	DIPTERA	Rhagoletis pomonella	Apple maggots
Thripidae	THYSANOPTERA		Thrips

LIST OF ORGANISMS BY SCIENTIFIC NAME

Scientific Name	Order	Family	Common Name
	COLEOPTERA	Tenebrionidae	Beetles
	COLEOPTERA	Scarabaeidae	Beetles
	DIPTERA	Tephritidae	Fruit flies
	ACARI	Acaridae	Mites
	THYSANOPTERA	Thripidae	Thrips
Agrotis spp.	LEPIDOPTERA	Noctuidae	Cutworms
Aleurocanthus woglumi	HOMOPTERA	Aleyradidae	Citrus black fly
Anastrepha ludens	DIPTERA	Tephritidae	Mexican fruit fly
Anastrepha suspensa	DIPTERA	Tephritidae	Caribbean fruit fly
Attagenus megatoma	COLEOPTERA	Dermestidae	Black carpet beetle
Caloglyphus krameri	ACARI	Acaridae	Acaroid mite
Carpocapsa pomenella	LEPIDOPTERA	Olethreutidae	Codling moth
Ceratitis capitata	DIPTERA	Tephritidae	Mediterranean fruit fly
Cryptophlebia leucotreta	LEPIDOPTERA	Olethreutidae	False codling moth
Cydia pomonella	LEPIDOPTERA	Olethreutidae	Codling moth
Cylas formicarius eleg.	COLEOPTERA	Cuculionidae	Sweetpotato weevil
Dacus curcurbitae	DIPTERA	Tephritidae	Melon fly
Dacus dorsalis	DIPTERA	Tephritidae	Oriental fruit fly
Dacus tyroni	DIPTERA	Tephritidae	Queensland fruit fly
Dendroctonus rufipennis	COLEOPTERA	Scotytidae	Spruce beetle
Drosophila melanogaster	DIPTERA	Drosophilidae	Pomace flies
Drosophila melanogaster	DIPTERA	Drosophilidae	Vinegar flies
Ephestia cautella	LEPIDOPTERA	Pyralidae	Almond moth
Hemiberlesia lataniae	HOMOPTERA	Diaspididae	Latania scale
Laspyresia pomonella	LEPIDOPTERA	Olethreutidae	Codling moth
Leptinotarsa decemlineata	COLEOPTERA	Chrysomelidae	Colorado potato beetle
Musca domestica	DIPTERA	Muscidae	House fly
Myzus persicae	HOMOPTERA	Aphididae	Green peach aphid
Oryzaephilus surinamensis	COLEOPTERA	Cucujidae	Sawtoothed grain beetle
Phthorimaea operculella	LEPIDOPTERA	Gelechiidae	Tuber moth
Plodia interpunctella	LEPIDOPTERA	Pyralidae	Indian meal moth
Rhagoletis indifferens	DIPTERA	Tephritidae	Western cherry fruit fly
Rhagoletis mendax	DIPTERA	Tephritidae	Blueberry maggots
Rhagoletis pomonella	DIPTERA	Tephritidae	Apple maggots
Rhyzopertha dominica	COLEOPTERA	Bostrichidae	Lesser grain borer
Sitophilus oryzae	COLEOPTERA	Cuculionidae	Rice weevil
Sitophilus spp.	COLEOPTERA	Cuculionidae	Weevils
Solenopsis geminata	HYMENOPTERA	Formicidae	Fire ant
Tribolium casteneum	COLEOPTERA	Tenebrionidae	Red flour beetle
Tribolium confusum	COLEOPTERA	Tenebrionidae	Confused flour beetle
Tyrophagus putrescentiae	ACARI	Acaridae	Mold mite

LIST OF ORGANISMS BY COMMON NAME

Common Name	Order	Family	Scientific Name
Acaroid mite	ACARI	Acaridae	Caloglyphus krameri
Almond moth	LEPIDOPTERA	Pyralidae	Ephestia cautella
Apple maggots	DIPTERA	Tephritidae	Rhagoletis pomonella
Beetles	COLEOPTERA	Tenebrionidae	
Beetles	COLEOPTERA	Scarabaeidae	
Black carpet beetle	COLEOPTERA	Dermestidae	Attagenus megatoma
Blueberry maggots	DIPTERA	Tephritidae	Rhagoletis mendax
Caribbean fruit fly	DIPTERA	Tephritidae	Anastrepha suspensa
Citrus black fly	HOMOPTERA	Aleyradidae	Aleurocanthus woglumi
Codling moth	LEPIDOPTERA	Olethreutidae	Laspyresia pomonella
Codling moth	LEPIDOPTERA	Olethreutidae	Carpocapsa pomenella
Codling moth	LEPIDOPTERA	Olethreutidae	Cydia pomonella
Colorado potato beetle	COLEOPTERA	Chrysomelidae	Leptinotarsa decemlineat
Confused flour beetle	COLEOPTERA	Tenebrionidae	Tribolium confusum
Cutworms	LEPIDOPTERA	Noctuidae	Agrotis spp.
False codling moth	LEPIDOPTERA	Olethreutidae	Cryptophlebia leucotreta
Fire ant	HYMENOPTERA	Formicidae	Solenopsis geminata
Fruit flies	DIPTERA	Tephritidae	
Green peach aphid	HOMOPTERA	Aphididae	Myzus persicae
House fly	DIPTERA	Muscidae	Musca domestica
Indian meal moth	LEPIDOPTERA	Pyralidae	Plodia interpunctella
Latania scale	HOMOPTERA	Diaspididae	Hemiberlesia lataniae
Lesser grain borer	COLEOPTERA	Bostrichidae	Rhyzopertha dominica
Mediterranean fruit fly	DIPTERA	Tephritidae	Ceratitis capitata
Melon fly	DIPTERA	Tephritidae	Dacus curcurbitae
Mexican fruit fly	DIPTERA	Tephritidae	Anastrepha ludens
Mites	ACARI	Acaridae	
Mold mite	ACARI	Acaridae	Tyrophagus putrescentiae
Oriental fruit fly	DIPTERA	Tephritidae	Dacus dorsalis
Pomace flies	DIPTERA	Drosophilidae	Drosophila melanogaster
Queensland fruit fly	DIPTERA	Tephritidae	Dacus tyroni
Red flour beetle	COLEOPTERA	Tenebrionidae	Tribolium casteneum
Rice weevil	COLEOPTERA	Cuculionidae	Sitophilus oryzae
Sawtoothed grain beetle	COLEOPTERA	Cucujidae	Oryzaephilus surinamensi
Spruce beetle	COLEOPTERA	Scotytidae	Dendroctonus rufipennis
Sweetpotato weevil	COLEOPTERA	Cuculionidae	Cylas formicarius eleg.
Thrips	THYSANOPTERA	Thripidae	
Tuber moth	LEPIDOPTERA	Gelechiidae	Phthorimaea operculella
Vinegar flies	DIPTERA	Drosophilidae	Drosophila melanogaster
Weevils	COLEOPTERA	Cuculionidae	Sitophilus spp.
Western cherry fruit fly	DIPTERA	Tephritidae	Rhagoletis indifferens

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Appendix 4

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