REPUBLIC OF THE MARSHALL ISLANDS



ENVIRONMENTAL PROTECTION AUTHORITY

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PESTICIDES AND PERSISTENT ORGANIC POLLUTANTS (POPS) REGULATIONS

June 2004

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REPUBLIC OF THE MARSHALL ISLANDS

ENVIRONMENTAL PROTECTION AUTHORITY

PESTICIDES AND TOXIC CHEMICAL SUBSTANCES REGULATIONS 2004

PART I – GENERAL PROVISIONS

1. Authority

- a) These regulations are promulgated by the Republic of the Marshall Islands Environn Protection Authority with the approval of the President pursuant to Sections 21 and 63 of the Na Environmental Protection Act 1984.
- b) These regulations supersede all previous publications and repeal 63 Trust Territory Chapter 13, Subchapter IV, Trust Territory Pesticides Regulations.
 - c) These regulations have the force and effect of law.

2. Purpose

The purpose of these regulations is to establish a system of control over the importation, distrib sale, and use of pesticides by persons within the Republic of the Marshall Islands, and further, to be restrict the use of twelve of the world's most highly toxic persistent organic pollutants ("POPS"), 9 of are pesticides, one of which is an industrial chemical, and two of which are unintentional che by-products, all targeted by the United Nations Stockholm Convention on Persistent Organic Pollutants.

3. Effective Date

These regulations shall come into force one day after their approval by the Cabinet.

4. Interpretation

In these regulations, unless the context otherwise requires:

- a) "Active ingredient" means:
 - in the case of a pesticide other than a plant regulator, defoliant, or designation an ingredient which will prevent, destroy, repel, or mitigate any pest;
 - (ii) in the case of a plant regulator, an ingredient which, through physiological action accelerate or retard the rate of growth or rate of maturation or otherwise alterate behavior of ornamental or crop plants or their product;
 - (iii) in the case of a defoliant, an ingredient which will cause the leaves or foliage to from a plant;
 - (iv) in the case of a desiccant, an ingredient which will artificially accelerate the dry a plant tissue.
- b) "Adulterated" means any pesticide if its strength or purity falls below the professed sta of quality expressed on the labeling under which it is sold, or if any substance has been substituted who in a part for the pesticide, or if any valuable constituent of the pesticide has been wholly or in part abstra
- c) "Agricultural commodity" means any plant, or part of a plant, or animal product, produc a person (including farmers, ranchers, plant propagators, aquaculturists, floriculturists, orchardists, fore or other comparable persons) primarily for sale, consumption, propagation, or other use by huma animals.

- d) "Approved Plan" means a program for the certification of pesticide applicators which has approved by the Authority as meeting the requirements set forth in Regulation .
- e) "Authority" means the Republic of the Marshall Islands Environmental Protection Autlority or its authorized representative.
- f) "Banned pesticide" means any pesticide, the use of which for any purpose is prohibited t Authority.
- g) "Banned use" means any use which is prohibited by the Authority, or any use wh suspended or cancelled by the Authority.
- h) "Certified Pesticide Applicator" means any individual who is certified by the Chairman 1 or supervise the use of any pesticide classified as a restricted use pesticide.
- i) "Chairman" means the Chairman of the Republic of the Marshall Islands Environn Protection Authority or an authorized representative.
- j) "Commercial Applicator" means a certified applicator (whether or not he or she is a p applicator with respect to some uses) who uses or supervises the use of any pesticide which is classific restricted use for any purpose or on any property other than as provided by paragraph (ff).
- k) "Competent" means properly qualified to perform functions associated with pes application, the degree of capability required being directly related to the nature of the activity an associated responsibility.
- l) "Defoliant" means any substance or mixture of substances intended for causing the lear foliage to drop from a plant, with or without causing abscission.
- m) "Desiccant" means any substance or mixture of substances intended for artifaccelerating the drying of plant tissue.
- n) "Environment" means the physical factors of the surroundings of human beings and inc the land, soil, water, atmosphere, climate, sound, odors, tastes and the biological factors of animals and j of every description.
- o) "Fungus" means all non-chlorophyll-bearing thallophytes including rusts, smuts, mil bacteria, molds and yeast, except those on or living in foods, beverages, or pharmaceuticals.
- p) "General use pesticide" means a pesticide other than one designated as a restricte pesticide.
- q) "Hazard" means a situation where there exists a probability that a given pesticide will injury or have an adverse effect on the environment.
 - r) "Importation" means causing to be brought into the Republic of the Marshall Islands.
 - s) "Inert ingredient" means an ingredient which is not an active ingredient.
- t) "Ingredient statement" means the name and percentage of each active ingredient, and the percentage of all inert ingredients in the pesticide.
- u) "Insect" means invertebrate animals belonging to the class Insecta or other allied class arthropods, such as Arachnida and Chilopoda.
- v) "Label" means the written, printed, or graphic matter on, or attached to, the pestici device or any of its containers or wrappers.
- w) "Labeling" means all labels and all other written, printed, or graphic matter accompanying pesticide, or to which reference is made on the label or in literature accompanying the pesticide.

- x) "Licensed dealer" means any person who is licensed by the Authority to sell or dist restricted use pesticides.
 - y) "Misbranded" means any pesticide if:
 - (i) its labeling bears any statement, design, or graphic representation relative to it or ingredients which is false or misleading in any particular;
 - (ii) its labeling bears instructions for a banned use;
 - (iii) it is contained in a package or other container or wrapping which does not confe standards established by the Authority;
 - (iv) it is an imitation of, or is offered for sale under the name of, another pesticide;
 - (v) its label does not bear the Authority registration number;
 - (vi) the label accompanying it does not contain, in English and Marshallese, instrufor use which are necessary, proper, and adequate for the protection of the public
 - (vii) the label does not contain warning or caution statements in English and Marsh; which if complied with are adequate to protect health and the environment;
 - (viii) the label does not bear an ingredient statement on the immediate container, or coutside container or wrapper if such outside container or wrapper does not allo ingredient statement on the immediate container to be clearly read;
 - (ix) any additional label which may be required by the Chairman is not conspict displayed on each container.
- z) "Nematode" means unsegmented roundworms of the class Nematoda which inhabit soil, v plants, or plant parts.
- aa) "Person" means any individual, corporation, company, association, partnership, ag authority, commission, foundation, the Republic of the Marshall Islands government or its posubdivisions, or any local, state, or foreign government or municipality, or other institution or entity, when public or private.
- bb) "Pest" means any insect, rodent, nematode, fungus, weed, or any other form of terresti aquatic plant or animal life, or virus, bacteria, or other microorganism which the Chairman declares to pest.
- cc) "Pesticide" means any substance or mixture of substances intended for preventing, destreated repelling, or mitigating any pest, and any substance or mixture of substances intended for use as a regulator, defoliant, or desiccant.
- dd) "Plant regulator" means any substance or mixture of substances intended, the physiological action, for accelerating or retarding the rate growth or rate of maturation, or for other altering the behavior of plants or plant products, but shall not include substances to the extent that the intended as plant nutrients, trace elements, nutritional chemicals, plant inoculants, and soil amendary Also, the term "plant regulator" shall not include any of those nutrient mixtures or soil amendary commonly known as vitamin-hormone horticultural products, intended for improvement, maintern survival, health, and propagation of plants, and not for pest destruction, and are non-toxic and non-poising the undiluted packaged concentration.
- ee) "POP(S)" means the twelve persistent organic pollutants set forth in Appendix B of regulations, which are targeted by the United Nations Stockholm Convention on Persistent Organic Pollu as posing a significant threat to health and the environment, and which share the properties of being I toxic, persistent in the environment, evaporative and able to travel long distances through the air and v and subject to bioaccumulation.

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- pesticide which is classified for restricted use for purposes of producing any agricultural commodi property owned or rented by him or her, or (if applied without compensation other than trading of perservices between producers of agricultural commodities) on the property of another person.
- gg) "Restricted use pesticide" means a pesticide, one or more uses of which have been rest by the Authority under these regulations, and which bears on its label the phrase "restricted use pesticide"
 - hh) "Rodent" means mammals of the order Rodentia, such as rats and mice.
- ii) "Sell or distribute" means to distribute, sell, solicit, offer for sale, hold for sale, ship, or d for shipment within the Republic of the Marshall Islands.
- jj) "Virus" means any of a group of microscopic infective agents which cause diseases in and animals.
 - kk) "Weed" means any plant growing where it is not wanted.

5. Severability

In the event any provision of these regulations or the application of any provision of these regulation any person or circumstances is held invalid, the application of such provision to other perso circumstances and the remainder of these regulations shall not be affected.

PART II - UNLAWFUL ACTS

6. General

- a) Except as otherwise exempted in Regulation 7, it shall be unlawful for any person to in sell or distribute, or receive and (having so received) deliver or offer to deliver, to any person:
 - (i) any pesticide or POP which is adulterated or misbranded;
 - (ii) any banned pesticide or POP.
 - b) It shall be unlawful for any person:
 - (i) to detach, alter, deface, or destroy, in whole or in part, any labeling, unless such a is taken with the approval of the Authority to correct an improper label or labelin
 - (ii) to refuse to keep any records required under these regulations, or to refuse to allo inspection of any records or establishment in accordance with these regulations, refuse to allow the Authority to observe pesticide use, investigate pesticide misu to take a sample of any pesticide in accordance with these regulations;
 - (iii) to use any pesticide or POP in a manner inconsistent with its labeling, unless upesticide under the provisions of an experimental use permit;
 - (iv) to use any pesticide under an experimental use permit in a manner contrary 1 provisions of such permit;
 - (v) to violate any order issued under these regulatons;
 - (vi) to violate any ban or prohibition issued under these regulations;
 - (vii) to knowingly falsify all or part of any application for certification, licens experimental use permit, or any records required to be maintained under regulations;

- (viii) to sell or distribute restricted use pesticides unless licensed under these regulation
- (ix) to sell or distribute any restricted use pesticide to any person other than a lic dealer or a certified applicator;
- (x) to use, store, transport, mix, or discard any pesticide or POP or the containers of pesticide or POP in such a way as to pose a hazard to human health c environment;
- (xi) to use or apply restricted use pesticides unless certified under these regulatic unless acting under the supervision of a certified applicator;

7. Exemptions

The penalties provided for a violation of Regulation 6 shall not apply to:

- (i) any carrier while lawfully shipping, transporting, or delivering for shipmen pesticide or POP, if such carrier upon request of any person duly designated t Authority shall permit such person to copy all of its records concerning such pes or POP;
- (ii) any public official while engaged in the performance of his or her official duties;
- (iii) any person importing a pesticide for use under an experimental use permit, pro that the requirements of the experimental use permit are met before the use of pesticide;
- (iv) any person possessing, receiving, shipping or delivering to another person pesticide or POP while acting under the written instructions of or with the exwritten approval of the Authority.

PART III - CERTIFICATION OF APPLICATORS

8. General Requirement

Competence in the use and handling of pesticides shall be determined by written examination or by the Authority and, as appropriate, by demonstration by the applicator, based upon standards which or exceed those set forth in this Part.

9. Classes of applicators

A certified applicator shall be classified as either a commercial applicator or a private applicator.

- a) Any person who uses or supervises the use of restricted use pesticides for the producti agricultural commodities, unless such use is in accordance with subregulation (b) below, shall be classif a commercial applicator in the category of agricultural pest control, which includes commercial application of supervising the use of restricted use pesticides in the production of agricultural crops, includes commercial application and substitutes are substituted agricultural substitutes are substituted agricultural substitutes and substitutes are substituted agricultural substitutes and substitutes are substituted agricultural substitutes are substituted agricultural substitutes and substitutes are substituted agricultural substitutes are substit
- b) Any person who uses or supervises the use of restricted use pesticides for the purpoproducing any agricultural commodity on property owned or rented by him or her, or (if applied w compensation other than trading of personal services between producers of agricultural commodities) of property of another person shall be classified as a private applicator.

10. <u>Determination of Competency</u>

- a) Application for certification as a commercial applicator shall be made to the Authority form provided for that purpose. As a minimum qualification for certification, the applicant must provided for that purpose. As a minimum qualification for certification, the applicant must provided for that purpose. As a minimum qualification for certification, the applicant must provided for that purpose. As a minimum qualification for certification, the applicant must provided for that purpose. As a minimum qualification for certification, the applicant must provided for that purpose. As a minimum qualification for certification, the applicant must provided for that purpose. As a minimum qualification for certification, the applicant must provided for that purpose. As a minimum qualification for certification, the applicant must provided for that purpose and place designated by the Authority. The examination will be based and the provided for that purpose are provided for that purpose are provided for the following provided for the purpose are provided
- b) Application for certification as a private applicator shall be made to the Authority on a provided for that purpose. The applicant may qualify for certification by passing a written examination satisfactorily demonstrating the ability to use pesticides and application equipment correctly and by particular and examination. Such examinations and demonstration requirements shall be based on stan contained in Regulation 12.

11. Standards for certification of commercial applicators

Commercial applicators must demonstrate theoretical and practical knowledge in the following of expertise:

- a) Label and labeling comprehension, including:
 - (i) the general format and terminology of pesticides labels and labeling;
 - (ii) the understanding of instructions, warnings, terms, symbols, and other inforn commonly appearing on pesticide labels;
 - (iii) classification of the product, general or restricted;
 - (iv) necessity for use consistent with the label.
- b) Safety, including:
 - (i) pesticide toxicity, hazard to human beings, and common exposure routes;
 - (ii) common types and causes of pesticide accidents;
 - (iii) precautions necessary to guard against injury to applicators and other individuals near treated areas;
 - (iv) need for and use of protective clothing and equipment;
 - (v) symptoms of pesticide poisoning;
 - (vi) first aid and other procedures to be followed in case of a pesticide accident;
 - (vii) proper identification, storage, transport, handling, mixing procedures, and dismethods for pesticides and used pesticides containers, including precaution to be to prevent children from having access to pesticides and pesticide containers.
- c) The potential environmental consequences of the use and misuse of pesticides as m influenced by such factors as:
 - (i) weather and other climatic conditions;
 - (ii) types of terrain, soil, or other substrate;
 - (iii) presence of fish, wildlife, and other non-target organisms;
 - (iv) drainage patterns.
 - d) Pests, including:

- - (i) common features of pest organisms and characteristics of damage needed for recognition;
 - (ii) recognition of relevant pests;
 - (iii) pest development and biology as it may be relevant to problem identification control.
- e) Pesticides, including:
 - (i) types of pesticides;
 - (ii) types of formulations;
 - (iii) compatibility, synergism, persistence, and animal and plant toxicity o formulations;
 - (iv) hazards and residues associated with use;
 - (v) factors which influence effectiveness or lead to such problems as resistan pesticides;
 - (vi) dilution procedures.
- f) Equipment, including:
 - (i) types of equipment and advantages and limitations of each type;
 - (ii) uses, maintenance and calibration.
- g) Application techniques, including:
 - (i) methods used to apply various formulations of pesticides, together with a know of which technique of application to use in a given situation;
 - (ii) relationship of discharge and placement of pesticides to proper use, unnecessar and misuse;
 - (iii) prevention of drift and pesticide loss into the environment.
- h) Pertinent laws and regulations.
- i) Agricultural pest control, including:
 - (i) crops grown and the specific pests of those crops;
 - (ii) soil and water problems;
 - (iii) pre-harvest intervals;
 - (iv) re-entry intervals;
 - (v) phytotoxicity;
 - (vi) potential for environmental contamination, non-target injury, and community proresulting from the use of restricted use pesticides in agricultural areas.

Provided, however, that the above standards do not apply to persons conducting laboratory res involving restricted use pesticides.

12. Standards for certification of private applicators.

As a minimum requirement for certification, a private applicator must show that he or she posse practical knowledge of the pest problems and pest control practices associated with agricultural operation the proper storage, use, handling, and disposal of the pesticides and containers, and of his or her related responsibility. This practical knowledge includes the ability to:

- a) Recognize common pests to be controlled and damage caused by them.
- b) Read and understand the label and labeling information, including the common nar pesticides to be applied, pest(s) to be controlled, timing and methods of application, safety precaution pre-harvest or re-entry restrictions, and any specific disposal procedures.
- c) Apply pesticides in accordance with label instructions and warnings, including the abil prepare the proper concentration of pesticide to be used under particular circumstances taking into ac such factors as area to be covered and the quantity dispersed in a given period of operation.
- d) Recognize local environmental situations that must be considered during application to contamination.
 - e) Recognize poisoning symptoms and procedures to follow in case of a pesticide accident.

13. Duration of certification and renewals

All certificates shall be valid for a period of three (3) years from the date of issuance unless ϵ suspended or revoked by the Authority. Application for renewal shall be made to the Authority on a provided for that purpose. The applicant shall be required to pass another examination and/or ϵ demonstration of proficiency in order to ensure that certified applicators continue to meet the requireme changing technology and to assure a continuing level of competency and ability to use pesticides safel properly.

14. Standards for supervision

Restricted use pesticides may be applied by a non-certified but competent person acting under direct supervision of a certified applicator. The availability of the certified applicator must be directly not to the hazard of the situation. In situations where the certified applicator is not required to be physically present, "direct supervision" shall include verifiable instruction to the competent person including, but limited to, detailed guidance for applying the pesticide properly and provisions for contacting the certified applicator in the event he or she is needed. In other situations, and as required by the label, the applying the pesticide properly application is made by a non-certified applicator. In either situation, responsibility for proper application shall remain with the certified application.

15. Denial, suspension and revocation

- a) The Authority may deny certification to:
 - (i) any person who is not a resident of the Marshall Islands;
 - (ii) any person whose certificate is suspended or revoked;
 - (iii) any person who has been found to be in violation of any part of these Regulations
- b) Any certificate issued under this Part may be suspended or revoked by the Authori violation of any condition of the certificate or of these regulations.

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PAKT IV - PERIVIT TO DEAL IN KESTRICTED USE PESTICIDES

16. Permit required

Every person engaged in the sale or distribution of restricted use pesticides and every p importing restricted use pesticides who is not a certified applicator shall obtain a permit from the Author

17. Application for permit

- Application for a permit shall be made by any person to the Authority on a form provide that purpose and shall be accompanied by a processing fee of \$100.00, which is non-refundable.
- Each permit shall expire at the end of the calendar year in which it is issued, and m renewed annually for subsequent calendar years.

Suspension or revocation 18.

A permit to deal in restricted use pesticides may be suspended or revoked by the Authority fc violation of these regulations whether committed by the dealer or an employee of the dealer. Any violation during the three (3) years preceding the date of application for a permit may serve as groundenial or rejection of the permit.

PART V - RECORDS

19. Records to be kept by commercial applicators

Each certified commercial applicator shall keep and maintain for a period of not less than tw years true and accurate records of the use and application of restricted use pesticides, including the followers information:

- At the time of purchase or receipt of a restricted use pesticide, a record of: a)
 - the brand name, quantity, and registration number of the product; (i)
 - the name and address of the person from whom purchased or received; (ii)
 - (iii) the date of purchase of receipt.
- b) At the time of application of a restricted use pesticide, a record of:
 - the brand name and registration number of the product, and the date of purcha (i) receipt;
 - the amount of product used and, if the product is to be mixed with another subs (ii) before use, the name of the other substance and the total amount of mixture prepared;
 - (iii) the site of use and purpose of use;
 - (iv) the date and time of application;
 - the signature of the certified applicator and, if the pesticide is used unde (v) supervision of the certified applicator, the name of user.

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At the time of disposal of a restricted use pesticide product, container, or mixture, a recor c)

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- (i) the brand name and registration number of the product, and the date of purchareceipt;
- (ii) the amount c f product or mixture disposed, or the number and type of contidisposed, and, if a mixture, the concentration of active ingredients;
- (iii) the date, site, an 1 method of disposal.

20. Records to be kept by a licensed dealer

Each licensed dealer shall keep and maintain for a period of not less than two (2) years tru accurate records of the receipt and sale or distribution of restricted use pesticides, including the folloinformation:

- a) Upon receipt of a restrict | use pesticide, a record of:
 - (i) the brand name, registration number, and number of containers;
 - (ii) the net weight of each container, and the type of container construction, for insteglass, mean, paper carton, paper bag or hard plastic;
 - (iii) the name an laddress of the person from whom purchased or received;
 - (iv) the date of receipt.
- b) Upon sale or distribution of a restricted use pesticide, a record of:
 - (i) the name, address, and certification number or dealer's permit number of the purchasing or receiving the pesticide;
 - (ii) the date of sale or distribution;
 - (iii) the brand name, registration number, and the quantity of product sold or distribut
 - (iv) the signature of the person selling or distributing the pesticide.

21. Additional records

Additional records, as found to be necessary for the enforcement of these regulations, marequired by the Authority.

22. Access to records

The Authority shall have access to all records identified in this Part at any reasonable till examine, copy, or make copies of such records for the purpose of carrying out the provisions of regulations. Unless required for the enforcement of the regulations, such information shall be confid and, if summarized, shall not identify an individual person.

PART VI - IMPORTATION

23. Notice of Intent

Persons desiring to import a pesticide or POP into the Republic of the Marshall Islands shall sul

notice of intent to the Authority on a form provided for that purpose before the arrival of the pestice POP shipment. The Authority shall then issue instructions as to the disposition of the shipment instructions may include, but are not limited to, directions to release the shipment to the consignee, deta shipment for sampling, deny delivery to the consignee, or impound the shipment.

24. <u>Inspection</u>

Upon arrival of the shipment, the Authority's representative shall inspect the pesticide or POI shall compare the results of the inspection and the entry papers for the shipment with the inform provided by the importer on the notice of intent. If no discrepancies are noted and the Authority has instructed to the contrary, the shipment shall be released. However, any discrepancies shall be report the Authority, and the shipment may be detained until such discrepancies are resolved.

25. Shipments arriving without notice

When a shipment of pesticides or POPS arrives in the Republic of the Marshall Islands an authorized representative of the Authority has not been provided with instructions for disposition shipment shall be detained and the Authority shall be notified.

The Authority shall then determine whether a notice of intent to import pesticides or POPS has submitted and shall provide instructions for disposition of the shipment.

26. Detained, denied, and impounded shipments

- a) All expenses arising from detainment of a pesticide or POP shipment due to failure a importer to submit a notice of intent to the Authority in a timely manner shall be payable by importer. F of the importer to pay assessed costs may result in impoundment of the shipment or of any future important made by the importer.
- b) Any pesticide or POP shipment for which delivery is denied shall be disposed of be Authority if not exported by the consignee within ninety (90) days of denial of delivery. All expensions storage, cartage, labor, and shipping shall be payable by the consignee and in default of such payment constitute a lien against any further importation made by the importer.
- c) If the owner of an impounded pesticide or POP shipment does not satisfy any and all against such shipment within ninety (90) days after notification in writing of the amount of said lien Authority shall enter into such action as may be necessary to effect transfer of ownership of the shipm the Authority for satisfaction of said liens.

PART VII - RESTRICTING AND BANNING OF PESTICIDES AND POPS

27. Restriction of Pesticides and POPS

The Authority may restrict any use of any pesticide listed in Appendix A or any POP list Appendix B to application by a certified applicator or a person acting under the supervision of a cerapplicator when misuse by non-certified applicators has produced or is deemed likely to produce substadverse effects on human health or the environment. Any such restriction shall be set forth in a w document signed by the Chairman of the Authority and published in the Marshall Islands Journal tooming into effect.

28. Banning of Pesticides and POPS

The Authority may prohibit the importation, sale, distribution, and use of any pesticide list Appendix A or any POP listed in Appendix B or prohibit a specific use or uses of any pesticide or POP such use or uses has produced or is deemed likely to produce substantial adverse effects on human healt

the environment. Any such restriction shall be set forth in a written document signed by the Chairman Authority and published in the Marshall Islands Journal before coming into effect.

PART VIII - EXPERIMENTAL USE PERMITS

29. Application for permit

Persons wishing to conduct small scale laboratory or field tests of an unregistered pesticide use obtain an experimental use permit before conducting such tests. The application for the experimental permit must contain:

- (i) the name, address, and qualifications of the applicant;
- (ii) a description of the proposed experiment, including the amount of pesticide to be the type of pest or organism to be experimented with, the crop or animal for whice pesticide is to be used, the location at which it is proposed to conduct the experiment and the duration of the testing program;
- (iii) the brand name or designation of the pesticide, ingredient statement, name and ac of the manufacturer, and amount of pesticide to be purchased or requested;
- (iv) data regarding the toxicity of the product, precautions to be taken for the protect those who may handle or be exposed to the experimental formulations instructions for the treatment of poisoning or injury resulting from inge inhalation, or other exposure to the pesticide;
- (v) if the pesticide is to be tested in any place likely to be frequented by peopl directly associated with the testing, a description of the measures that will be tal prevent exposure of such people to the pesticide;
- (vi) when food or feed is likely to be contaminated, either a full statement of the a which will be taken to prevent the food or feed from being consumed, exce laboratory or experimental animals, or convincing evidence that the proposed us not result in residue which would be hazardous to human beings, other animals, environment;
- (vii) data regarding the environmental hazards associated with the proposed use of pesticide, including its biological half-life, and a description of the precautions taken for the protection of the environment;
- (viii) a statement that the pesticide will be used for experimental purposes only;
- (ix) a statement indicating the method of disposal of any unused experimental pesticic

30. Restrictions

The Authority may limit the quantity of pesticide to be purchased or requested for experiment and may make such other restrictions to the permit as it may determine to be necessary for the protect the public and the environment.

31. Denial

The Authority may refuse to issue an experimental use permit if any information required in Regulation not furnished in the application for such permit, or if the information furnished is deemed insufficit insure that adequate precautions will be taken for the protection of the public and the environment, or

Authority determines that the applicant is not qualified by education or experience to undertake the proprogram.

32. Duration

Unless revoked by the Authority, an experimental use permit shall be effective for a specified profitime. The duration of the permit shall be determined by the nature of the proposed testing program may be extended upon request if circumstances warrant.

33. Special label requirements

Labels shall be affixed as necessary so that the following information is displayed clearly in E and Marshallese on the outside of each container of experimental formulation:

- (i) the prominent statement "For Experiment Use Only";
- (ii) a warning or caution statement which, if complied with, is adequate for the prote of those who may handle or be exposed to the experimental formulation;
- (iii) the name and address of the holder of the experimental use permit;
- (iv) the name or designation of the experimental formulation;
- (v) such other statements or information as may be required by the experimenta permit.

34. Reports

The holder of an experimental use permit shall report to the Authority:

- (i) immediately, incidents of adverse effects on human health or the enviror resulting from use of or exposure to a pesticide formulation covered by the permi
- (ii) within thirty (30) days after termination of experimental use, that such use has terminated;
- (iii) within thirty (30) days after disposal of unused experimental pesticide, the metho site of disposal, and the quantity of pesticide discarded.

35. Revocation

The Authority may revoke an experimental use permit at any time upon finding of violation terms or conditions of such permits or upon finding that the terms or conditions are inadequate to prunreasonable risk to human health or the environment.

PART IX - ENFORCEMENT

Violations

- a) A person who commits any unlawful acts under Part II of these regulations or who vi any provision of these regulations or any permit, requirement or order issued thereunder, shall be subjection of the Authority.
 - b) The enforcement action may be any or all of the following:
 - (i) revocation of a permit issued under these regulations;

- (ii) the making of a cease and desist order in relation to the subject matter of the viola
- (iii) the imposition of a civil penalty, fixed by the Authority, not exceeding \$10,000.0 each day on which the violation continues; and
- (iv) any other action authorized by the National Environmental Protection Act 1984 cother law.

37. Public hearing

- a) When the Authority revokes a permit under Regulation 36(b)(i) or makes a cease and order under Regulation 36 (b)(ii), a public hearing shall be conducted by the Authority to determin authenticity of the facts upon which the order was made.
- b) Adequate notice of the hearing, and an adequate opportunity to appear and be heard hearing, shall be given to all interested persons.

38. Right to enter

For the purposes of enforcing the provisions of these regulations, the Authority or its authority representative may:

- a) enter, at reasonable times, any establishment or other place where pesticides or POP stored, held for distribution or sale, or used, for the purpose of:
 - (i) inspecting any pesticide or POP, pesticide or POP container, labels and labelia application equipment;
 - (ii) collecting samples of any pesticide or POP, suspected pesticide or POP, or pestic POP labeling;
 - observing operations involving the use or disposal of any pesticide or POP, disposal of any pesticide or POP containers;
 - (iv) investigating suspected misuse of any pesticide or POP.
- b) enter any premises at any time if there is substantial reason to believe that any pestic POP used, stored, or otherwise present on such premises is, through accident, carelessness, or circumstance, producing adverse effects on human health or the environment, for the purpose of taking action as may be necessary to prevent or mitigate further adverse effects.

39. Penalty for lack of permit

Any person required to have a permit under these regulations and engaged in an activity without a permit shall be subject to a civil penalty of \$500.00 per day the activity is conducted without a permit.

Adopted by the Authority on 10 June, 2004.

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| Republic of the Marshall Islands | У |
|----------------------------------|---------|
| Approved by the President on | , 2004. |
| His Excellency Kessai H. Note | |

Republic of the Marshall Islands

Philip Kabua, Chairman

APPENDIX A

Restricted Use Pesticides

The following pesticide products containing the chemical name specified are classified for rest use. Such restrictions, and the below-listed criteria influencing those restrictions, are taken fro June, 2003 USEPA Restricted Use Products Report.

| Chemical Name | Criteria Influencing Restriction |
|---------------|---|
| Acetamide | Groundwater and surface water concerns. |
| Acetic acid | N/A |
| Acetochlor | N/A |
| Acrolein | Inhalation hazard to humans. Residue effects on avian specie aquatic organisms. |
| Acrylonitrile | Accident history of both acrylonitrile and carbon tetrachloride pro- |
| Alachlor | Oncogenic potential. |

- -

Aldicarb Accident history.

Aldrin Persistent Organic Pollutant pesticide (applied to soils to kill ten

grasshoppers, corn rootworm, and other insect pests).

Allyl alcohol Acute dermal toxicity.

Alpha-chlorohydrin N/A

Aluminum phosphide Inhalation hazard to humans.

Amitraz Possible oncogenicity.
Amitrol Concogenic potential.

Arsenic acid Oncogenicity, muta, repro/fetotoxicity.

Arsenic pentoxide I ssible oncogenic, mutagenic, reproductive and/or

fet toxic effects.

Atrazine Groundwater contamination potential and worker

exposure.

Avermectin Toxic to fish, mammals and aquatic organisms.

Avitrol Hazard to fish and non-target birds.

Azinphos-methyl Human inhalation hazard, acute toxicity, hazard to avian, aquati

mammalian species.

Bendiocarb Toxicity to aquatic and avian species.

Benzoic acid N/A

Biphenthrin Toxic to fish and aquatic organisms.

Bis(tributyltin) oxide Toxicity to aquatic organisms including shellfish.

Brodifacoum Hazard to non-target organisms

Butylate N/A

Cadmium chloride Kidney effects.

Calcium cyanide Human inhalation hazard.

Carbofuran Acute inhalation toxicity, avian toxicity in granular formulations.

Carbon dioxide N/A

Carbon tetrachloride Oncogenicity, acute and subacute poisoning risks.

Chlordane Persistent Organic Pollutant; Probable human

Oncogenicity, chronic liver effects, toxicity to avian and

aquatic organisms.

Chlordimeform Causes cancer in laboratory animals.

Chlorfenvinphos Acute dermal toxicity.

Chlorobenzilate Oncogenicity, adverse testicular effects.

Chlorophacinone human hazard, potential for food contamination,

Possible inhalation hazard.

Chloropicrin Acute inhalation toxicity with all formulations greater than 2%. H

to non-target organisms with use of all formulations for rodent cor

Chlorothalonil N/A

Chlorothoxyfos Acute human, avian and aquatic invertebrate toxicity.

Chlorpyrifos Avian and aquatic toxicity.

Chromic acid Oncogenicity, mutagenicity, teratogenicity, and fetotoxic

Effects.

Clofentezine Restricted use status given to allow new uses – additional

Data required to remove the restriction.

Coal tar Oncogenicity, mutagenicity.

Coal tar creosote Possible oncogenic and mutagenic effects.

Copper oxychloride N/A

Coumaphos Acute oral toxicity hazards.

Creosote Oncogenicity, mutagenicity

Creosote oil Possibly oncogenic and mutagenic effects.

Cube resins other than rote Chronic eye effects and inhalation effects.

Cupric oxide N/A

Cuprous oxide N/A

Cyanazine Teratogenicity, fetotoxicity.

Cycloheximide Acute dermal toxicity.

Cyfluthrin Acute toxicity to applicators, fish and other aquatic organisms.

Cyhalothrin Requires more environmental data.

Cypermethrin Oncogenicity, hazard to non-target organisms.

DBCP All products cancelled except for pineapple use,

oncogenicity, mutagenicity.

DDT Persistent Organic Pollutant (applied against mosquitoes to co

malaria).

Deltamethrim High toxicity to aquatic organisms.

Demeton With 1% fertilizer formulation and granular formations:

Domestic uses - acute oral toxicity; acute dermal toxicity.

Nondomestic outdoor uses - residue effects on avian and mamn

species.

Diallate Oncogenicity, mutagenicity.

Diazinon Avian and aquatic toxicity.

Dichloenil Conditional.

Dichloropropene Probable human carcinogen, oncogenic, acutely toxic by the

Oral and inhalation routes of exposure.

Diclofop methyl Oncogenicity.

Dicrotophos Acute dermal toxicity, residue effects on avian species.

Dieldrin Persistent Organic Pollutant (used principally to control termite

textile pests, also used to control insect-borne diseases and is

living in agricultural soils).

Diflubenzuron Hazard to wildlife.

Dioxathion Acute dermal toxicity.

Diphacinone N/A

Disulfoton Acute dermal toxicity, inhalation toxicity.

Dodemorph Corrosive to eye tissue.

E-mevinphos N/A

Emamectin benzoate Toxicity to fish.

Endrin Persistent Organic Pollutant; acute dermal toxicity, hazard to non

organisms.

EPN Acute dermal toxicity. Acute inhalation toxicity. Residue effec

avian species. Effects on aquatic organisms with aquatic uses.

EPTC N/A

Ethion Acute toxicity.

Ethoprop Acute dermal toxicity.

Ethyl parathion Inhalation hazard to humans. Acute dermal toxicity. Residue effe

mammalian, aquatic, and avian species. Human inhalation ha

accident history.

Ethylene dibromide Risks to workers from occupational exposure.

Fenamiphos Acute dermal toxicity, avian acute oral toxicity, acute inha

toxicity.

Fenbutatin-oxide Restricted due to very high toxicity to aquatic organisms.

Fenitrothion Potential adverse effects on aquatic and avian species.

Fenpropathrin Toxic to fish and aquatic organisms.

Fensulfothion Acute dermal toxicity, acute inhalation toxicity.

Fenthion Very high acute toxicity to birds, fish and ac

invertebrates.

Fenvalerate Possible adverse effects on aquatic organisms.

Fipronal Conditional amended.

Flucythrinate Possible adverse effects on aquatic organisms.

Fluoroacetamide Acute oral toxicity.

Fluvalinate Highly toxdic to aquatic organisms.

Fonofos Acute dermal toxicity.

Heptachlor Persistent Organic Pollutant (primarily employed to kill soil insect

termites, also used to kill cotton insects, grasshoppers, other crop

and malaria-carrying mosquitoes).

Hexachlorobenzene Persistent Organic Pollutant (kills fungi that affect food crops

released as a byproduct during the manufacture of certain cher and as a result of the processes that give rise to dioxins and furans

Hydrocyanic acid Inhalation hazard to humans.

Hydrogen cyanamide Corrosive effects to skin and eyes.

Imazaquin N/A

Isazofos Avian fish and aquatic organism toxicity.

Lambda-cyhalothrin Toxicity to fish and aquatic invertebrates.

Lindane

Magnesium phosphide

Possibly oncogenic.

Inhalation hazard.

Methamidophos Acute dermal toxicity and residue effects on avian species.

Methidathion Residue effects on avian species.

Methiocarb Possible hazard to avian, fish and other aquatic organisms.

Methyl bromide Acute toxicity and accident history.

Methyl isothiocyanate Exceeds U.S. classification criteria of 40 CFR 152.170.

Methyl parathion Accident history. All foliar applications restricted based on re

effects on mammalian and avian species. Hazard to bees, acute d

toxicity.

Metolachlor N/A

Mevinphos Acute dermal toxicity. Residue effects on mammalian and

species.

Mirex Persistent Organic Pollutant (an insecticide applied mainly to co

fire ants, other ants and termites, also used as a fire retarda

plastics, rubber and electrical goods).

Monocrotophos Residue effects on avian species. Residue effects on mamn

species, acute dermal toxicity.

Niclosamide Acute inhalation toxicity, effects on aquatic organisms.

Nicotine Acute inhalation toxicity with indoor use of liquid and dry formula

14% and above. Effects on aquatic organisms.

Nitrogen (liquid) Highly corrosive on contact with skin and eyes.

Oxamyl Acute oral toxicity, acute inhalation toxicity, avail oral toxicity.

Oxydematon methyl Reproductive effects.

Paraquat Use and accident history. Human toxicological data.

Pentachlorophenol Possible oncogenic, teratogenic and fetotoxic effects.

Permethrin Highly toxic to aquatic organisms.

Phorate Acute oral and dermal toxicity for granulars, residue effect

mammalian and avian species (applies to foliar application of

formulation only). Effects on aquatic organisms.

Phosacetim Hazard to non-target species. Residue effects on mammalian and

species.

Phosalone Aquatic toxicity.

Phosphamidon Acute dermal toxicity. Residue effects on mammalian and

species.

Picloram Hazard to non-target organisms (specifically non-target plants both

and non-crop).

Picloram, potassium salt Hazard to non-target organisms (specifically non-target plants

crop and non-crop).

Picloram, triisopropanolami Hazard to non-target organisms (specifically non-target plants both

and non-crop).

Piperonly butoxide N/A

Potassium pentachlorophenat Possible oncogenic, mutagenic, and reproductive and/or fetc

effects.

Profenophos Corrosive to eyes.

Pronamide N/A

Propanoic acid N/A

Propetamphos N/A

Pyrethrins Restricted due to chronic eye effects.

Resmethrin Acute fish toxicity.

Rotenone Chronic eye effects and inhalation effects.

S-fenvalerate Possible adverse effects on aquatic organisms.

Simazine N/A

Sodium arsenate Possible oncogenic, mutagenic and reproductive and/or fetc

effects.

Sodium cyanide Inhalation hazard to humans, hazard to non-target species.

Sodium dichromate Oncogenicity, mutagenicity, teratogenicity, and fetotoxicity.

Sodium fluoroacetate Acute oral toxicity. Hazard to non-target organisms. Use and acc

history.

Sodium hydroxide Acute toxicity, hazardous to inhale, hazard to eyes, skin.

Sodium methyldithiocarbamat Dermal toxicity and teratogenicity. Acute toxic

Metam Sodium and its intended use in controlling sewe

growth.

Sodium pyroarsenate Oral toxicity oncogenicity, mutagenicity and reproductive and fetc

effects.

Starlicide Hazard to non-target organisms.

Strychnine Acute oral toxicity. Hazard to non-target avian species. Use

accident history.

Sulfotepp Inhalation hazard to humans.

Sulfuric acid Extremely corrosive, acute toxicity to humans.

Sulfuryl fluoride Acute inhalation hazard, possible acute toxicity hazard in humans.

Sulprofos Wildlife hazard.

Tefluthrin Environmental concerns.

Tepp Inhalation hazard to humans. Dermal hazard to humans. Re

effects on mammalian and avian species.

Terbufos Residue effects on avian species, acute oral and dermal toxicity.

Tergitol Eye and skin irritant, plus use of this product requires s

knowledge, skills, and equipment.

TFM Requires specialized training, equipment and clothing.

Toxaphene Persistent Organic Pollutant; hazard to non-target organisms, pot

human oncogen, acute toxicity to aquatic organisms, chronic w

effects.

Tralomethrin Toxicity to aquatic organisms.

Tributyltin fluoride Toxicity to aquatic organisms including shellfish.

Tributyltin methacrylate Toxicity to aquatic organisms including shellfish.

Trifluralin N/A

Triisopropranolamine Hazard to nontarget organisms, specifically nontarget plants both

and noncrop.

Treiphenyltin hydroxide Possible mutagenic effects.

Z-mevinphos N/A

Zinc Phosphide Acute inhalation toxicity. Hazard to non-target organisms, acute

toxicity.

APPENDIX B

Persistent Organic Pollutants (POPS)

The twelve chemical products specified below are classified as POPS pursuant to the United Na Stockholm Convention on Persistent Organic Pollutants. Note that HCB's are specified in categories. The information listed with these POPS is taken from the United Nations Environ Programme (UNEP) Guide to the Stockholm Convention and other subsidiary information to Convention.

Pesticides (also listed in Appendix A)

| Chemical Name | Information |
|-------------------------|---|
| Aldrin | A pesticide applied to soils to kill termites, grasshoppers, rootworm, and other insect pests. |
| Chlordane | Probable human oncogenicity, chronic liver effects, toxicity to avia aquatic organisms, used extensively to control termites and as a t spectrum insecticide. |
| DDT | Applied against mosquitoes to control malaria. |
| Dieldrin | Used principally to control termites and textile pests, also us control insect-borne diseases and insects living in agricultural soils |
| Endrin | Produces acute dermal toxicity, hazard to nontarget organisms, sprayed on the leaves of crops, also used to control mice, vole other rodents. |
| Heptachlor | Primarily employed to kill soil insects and termites, also used t cotton insects, grasshoppers, other crop pests and malaria-car mosquitoes. |
| Hexachlorobenzene (HCB) | Kills fungi that affect food crops, also released as a byproduct of the manufacture of certain chemicals and as a result of the proof that give rise to dioxins and furans (also listed as an Indi Chemical below). |
| Mirex | An insecticide applied mainly to combat fire ants, other ant termites, also used as a fire retardant in plastics, rubber and electrogoods. |
| Toxaphene | An insecticide that is a hazard to non-target organisms, potential honcogen, acute toxicity to aquatic organisms, chronic wildlife elalso called campbechlor |

also canca campilectnor.

Industrial Chemicals

Hexachlorobenzene (HCB)

Kills fungi that affect food crops, also released as a byproduct of the manufacture of certain chemicals and as a result of the proof that give rise to dioxins and furans (also listed as a Pesticide above

Polychlorinated biphenyls (PCB)

CB) These compounds are employed in industry as heat excl fluids, in electric transformers and capacitors, and as additives in carbonless copy paper, sealants and plastics.

Unintentional Chemical By-products

Dioxins

These chemicals are produced unintentionally due to incomplete combustion, as well as during the manufacture of certain perticide other chemicals. In addition, certain kinds of metal recycling and and paper bleaching can release dioxins. Dioxins have also been 1 in automobile exhaust, tobacco smoke and wood and coal smoke.

Furans

These compounds are produced unintentionally from combustion a from industrial processes such as the production of pesticides, polyvinyl chloride, and other chlorinated substances. They are als

found in commercial mixtures of PCBs.