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NAVAL MEDICAL FIELD RESEARCH LABORATORY

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Camp Lejeune, North Carolina 28542



Armed Forces Pest Management Board

recommends policy, provides guidance, and coordinates the exchange of information on all matters related to DoD pest management

Address reply to:
Commanding Officer
Refer to:
NMFRL-032-hjp
3900.3

15 December 1968

From: Commanding Officer, Naval Medical Field Research Laboratory,
Camp Lejeune, North Carolina 28542

To: Distribution List

See Pages 1, 10, 11, 22.
Dec 1968

Subj: Pesticides and Pest Control Equipment; information concerning

- Ref: (a) CO NMFRL ltr NMFRL-032-hjp 3900.3 of 1 Jul 1968, Subj: Pesticides and Pest Control Equipment; information concerning
(b) Marine Corps Order 6250.6 of 19 Feb 1968, Subj: Pest Control Program
(c) Marine Corps Order 6250.7 of 6 Jun 1968, Subj: Preventive Medicine Technician Vector Control Set; Establishment of
(d) T/A USMC, Revision No. 15 of 28 Jul 1966

Encl: (1) Review of Information Concerning Federal Standard Stock Pesticides (primarily FSC 6840) and Equipment for Pest Control and Pesticide Dispersal (primarily FSC 3740)

1. Reference (a) is superseded by this letter with the information contained in enclosure (1).
2. This review includes all published changes related to the procurement, storing, issue and use of subject supplies and equipment. The information contained in enclosure (1) is prepared by the Entomology Division of this laboratory to assist those who have not been able to obtain the several references pertinent to the procurement and use of these items.
3. References (b), (c), and (d) set forth instructions concerning the procurement, use and reporting of Pesticides and Pest Control Equipment and are valuable to the organization and operation of programs for the control of pests within the military establishment.
4. Additional copies of this review are available on request. Your suggestions and comments on previous reviews have been incorporated in this report which has been improved by your interest.

Jesse F. Adams
JESSE F. ADAMS

Distribution:
List (X)

Distribution List (X)

PMU 2 NorVa (2)
PMU 5 San Diego (2)
PMU 6 Pearl Harbor (2)
PMU 7 Naples, Italy (2)
DVCC Alameda (2)
DVCC Jax (2)
BuMed (7222) Wash DC (4)
MCSupCen Albany Ga (2)
MCSupDep Barstow Calif (2)
MCSupAct Phila Pa (2)
ForSurg FMF Lant NorVa (1)
ForSurg FMFPac Pearl Harbor (1)
StaffMedO HQMC Wash DC (1)
CMC (AO4D) Wash DC (2)
CMC (CSX) Wash DC (1)
CMC (CSY4) Wash DC (1)
DivSurg 1stMarDiv (1)
DivSurg 2dMarDiv (1)
DivSurg 3dMarDiv (1)
DivSurg 5th MarDiv (1)
PrevMedSec 1stMarDiv (1)
PrevMedSec 2dMarDiv (1)
PrevMedSec 3dMarDiv (1)
PrevMedSec 5thMarDiv (1)
DirMilEntomolInfoServ Wash DC (2)
ExecSec AFPCB Wash DC (15)
NavFacEngCom (63-233) Wash DC (2)
NavFacEngCom (63A): Seattle (2)
NavFacEngCom NorVa (2)
NavFacEngCom Charleston SC (2)
NavFacEngCom NY (2)
NavFacEngCom Boston (2)
NavFacEngCom New Orleans (2)
NavFacEngCom Chesapeake Div Wash DC (2)
NavFacEngCom San Diego (2)
NavFacEngCom San Bruno Cal (2)
NavFacEngCom Caribbean Div NY (2)
NavFacEngCom PacDiv San Francisco (2)
NavFacEngCom European Div NY (2)
LnO AFPCB USDA Gainesville Fla (2)
CO Camp Garcia FT FMFLant Vieques PR (2)
CO Camp Butler FPO San Francisco (2)
MarCorSupCenter (844) 1100 S. Broad St., Phila Pa 19146 (2)

15 December 1968

PESTICIDES AND PEST CONTROL EQUIPMENT; Information concerning

NOTE: All items of supply for the control of pests are considered to be standard stock if they appear in the Federal Stock Catalogs. All other items are non-standard and require the approval by the Entomologist who serves the major military command. Marine Corps procurement of items which are not in local supply requires the requisition to be sent to the Inventory Control Point, Marine Corps Supply Activity, 1100 South Broad Street, Philadelphia, Pennsylvania 19146. Navy procurement of items which are not in local supply requires that (a) the requisition for an item in FSC Class 6800 be sent to Defense General Supply Center, Bellwood, Petersburg Pike, Richmond, Virginia 23219, or (b) the requisition for an item in FSC Class 3740 be sent to Defense Construction Supply Center, 3990 East Broad Street, Columbus, Ohio 43215.

Part I. PESTICIDES.

References:

- (a) FSC C6800-IL Identification List 1 July 1967
- (b) FSC C6800-IL-CB5 1 October 1968
- (c) FSC C6800-ML Management Data List 1 December 1968
- (d) Herbicide Manual for Noncropland Weeds, USDA Agriculture Handbook No. 269, March 1965.
- (e) Suggested Guide For Weed Control 1967, USDA, Agriculture Handbook No. 332, July 1967.
- (f) 2,4-D, 2,4,5-T, and Related Chemicals for Woody Plant Control in the Southeastern United States by Robert M. Romancier, Report Number 16, Georgia Forest Research Council, Macon, Georgia, 1965.
- (g) Military Entomology Operational Handbook, NAVDOCKS MO-310.

Guide. Rodenticides, insecticides and other pesticides are provided in a variety of kinds, packages, formulations, and concentrations. The materials listed here include those believed to meet most of the current needs of the Armed Forces. In order to assure that hazardous materials are issued only to personnel who have been trained and certified as qualified to handle such items, the following categories are established and are indicated by the symbols I, II, and III.

- I. Ready-to-use items to be issued for use by troops, fleet units, and other personnel without special qualifications in the mixing and application of toxic chemicals.
- II. Items to be issued, when approved by the surgeon and/or engineer (medical officer or public works officer), for use by installation engineer (or public works) employees who

- II. 36. Rodenticide, Diphacin-paraffin, Bait Block. This rodenticide bait block is restricted to use in retrograde cargo only. It is prepared for control of rodents in shipping containers. The 8-ounce block has a center hold 3/4 to 1 inch in diameter to which is attached a 3/4 inch heavy duty red binding tape, 8 feet long. When a block is placed in a shipping container the red tape is hung on the outside to indicate the presence of the block. There are 40 blocks in each carton.

Mfr. Code 27633, part No. 788
\$9.19/CT (40 per carton)
797454-500 6840-089-4664

- 14590 II. 37. Rodenticide, Zinc Phosphide. This rodenticide is a fine powder which contains 80% zinc phosphide and 20% antimony potassium tartrate.

Spec FED O-R-511 \$0.37/BT (1 ounce bottle)
050400-500 6840-285-7091

Fumigants.

- II. 38. Fumigant, Carboxide. Carboxide is a fumigating compound which contains 89.5 - 90.5% carbon dioxide and 9.5 - 10.5% ethylene oxide. Be sure of this formula before you fumigate with carboxide. It is issued in a cylinder (FSN 8120-151-9751) which contains 60 pounds of carboxide.

Spec MIL-F-2918 No price given
045200-500 6830-282-9724

- II. 39. Insecticide, Methyl Bromide. This odorized, non-flammable fumigant is a liquid under pressure in the one pound can in which it is issued. See also Review No. 40.

Spec FED O-I-556 \$0.64/CN (1 pound can)
050160-200 6840-823-7946

- II. 40. Insecticide, Methyl Bromide. This item is equal to Review No. 39. It is odorized and supplied in cylinders (FSN 8120-935-0977) which have a capacity of 150 pounds

Spec FED O-I-556 \$110.00/CY (150 pounds)
050160-400 6840-680-0142

Herbicides.

- II. 41. Herbicide, Amitrole 90%. This water soluble powder contains 90% amino triazole and 10% inert ingredients. See page 6, Ref. (d), and page 5, Ref. (e).

Spec FED O-H-190 \$46.50/PL (24 pounds)
048720-500 6840-833-1217

42. Herbicide, Bromacil 80%. This wettable powder contains 80% bromacil and 20% inert ingredients. See page 6, Ref. (e).
- II. Spec not given \$228. 00/DR (50 pound drum)
206747-500 6840-890-2146
43. Herbicide, Bromacil 4%. This granular form of bromacil contains 4% active chemical and 96% inert ingredients. It is ready to use. Packed in a plastic lined box.
- II. Spec not given \$18. 00/BX (50 pounds)
210966-500 6840-943-0720
44. Herbicide, Chlorate-Borate. This water soluble powder contains 73% disodium octoborate tetrahydrate, 25% sodium chlorate and 2% inert ingredients including the spreading agent. See Ref. (d), page 14.
- II. Spec FED O-H-202 \$5. 70/BG (50 pounds)
048760-500 6840-684-8975
45. Herbicide, Dicamba. This water soluble salt contains 49% dicamba, 7.9% dimethylamine salts of related acids and 43.1% inert ingredients. It is a liquid. See Ref. (d), page 8 and Ref. (e), page 7.
- II. Spec not given \$5. 25/BT (1 gallon)
259489-500 6840-905-4304
46. Herbicide, Diquat. This liquid herbicide is a non-volatile and non-flammable contact poison. It contains 35.3% diquat dibromide and 64.7% inert ingredients. See Ref. (d), page 11; Ref. (e), page 7.
- II. Spec not given \$120. 00/DR (5 gallons)
261517-500 6840-815-2799
47. Herbicide, Dimethyl tetrachloroterephthalate. DCPA. This wettable powder contains 75% dimethyl ester of tetrachloroterephthalic acid and 25% inert ingredients. (Dacthal) It is odorless. See Ref. (d), page 9 and Ref. (e), page 7.
- II. Spec FED O-H-206 \$118. 00/DR (50 pound)
262653-500 6840-681-9475
48. Herbicide, Dalapon. 85%. This water soluble powder contains 85% 2,2-dichloropropionic acid sodium salt and 15% inert ingredients. See Ref. (d), page 10, and Ref. (e), page 7.
- II. Spec FED O-H-205 \$44. 20/DR (50 pounds)
048800-500 6840-577-4204
49. Herbicide, 2, 4-D. This liquid form contains 2,4-dichlorophenoxy-acetic acid. See Ref. (d), page 15, and Ref. (e), page 12. See Review Nos. 50 and 51.
- II. Spec FED O-H-200 \$2. 62/CN (1 gallon)
048840-200 6840-664-7060

2-4-D is on
the VA
"herbicide
exposure
list"

2-4-D is on the
VA "herbicide
exposure list"

50. Herbicide, 2,4-D. This item is the same as Review No. 49 and No. 51.
- II. Spec FED O-H-200 \$18.30/DR (5 gallons)
048840-400 6840-577-4194
51. Herbicide, 2,4-D. This item is the same as Review No. 50.
- II. Spec FED O-H-200 \$181.00/DR (55 gallons)
048840-600 6840-577-4195
52. Herbicide 2,4-D - 2,4,5-T. This solution contains 33.5% low volatile ester of 2,4-D (2.0 lb. 2,4-D acid equivalent per gallon), 31.9% low volatile ester of 2,4,5-T (2.0 lb. 2,4,5-T per gallon) and 34.6% inert ingredients. See Ref. (d), page 16, and Ref. (e), page 12.
- II. Spec FED O-H-200
FED O-H-200A \$297.00/DR (55 gallons)
048880-500 6840-825-7792
53. Herbicide, Disodium Methylarsonate. DMA or DSMA. This water soluble powder contains 63% disodium methylarsonate. See Ref. (d), page 8, and Ref. (e), page 8.
- II. Spec FED O-H-204 \$38.20/DR (100 pounds)
048920-500 6840-965-2071
54. Herbicide, Diuron 80%. This compound is finely ground water dispersible powder which contains 80% active ingredient (3-(3,4 dichlorophenyl)-1,1-dimethylurea). See Ref. (d), page 18, and Ref. (e), page 7.
- II. Spec MIL-H-51152 \$130.00/DR (50 pounds)
048960-500 6840-825-7790
55. Herbicide, Fenuron 25%. This pelletized form of Fenuron contains 25% 3-phenyl-1,1-dimethylurea and 75% inactive ingredients. See Ref. (d), page 18, and Ref. (e), page 8.
- II. Spec MIL-H-51151 \$60.00/BG (50 pounds)
049000-500 6840-810-6920
56. Herbicide, Monuron 80%. This water dispersible powder contains 80% 3-(p-chloro-phenyl)-1,1-dimethylurea and 20% inactive ingredients. See Ref. (d), page 18, and Ref. (e), page 9.
- II. Spec MIL-H-51153 \$113.00/DR (50 pounds)
049080-500 6840-514-0644

Agent Orange

Silvex is listed often as having more dioxin than agent orange

2,4,5-T is on the VA "herbicide exposure list"

Tordon 101 is a synonym for Agent White

II.

57. Herbicide, Silvex Ester. This emulsion concentrate contains 58.9 to 65.1% of any suitable low volatile ester derivative of 2-(2,4,5-trichlorophenoxy) propionic acid (4 lb. min. acid equivalent per gallon) and 34.9 to 41.1% inert ingredients. See Ref. (d), page 17, and Ref. (e), page 10.

Spec FED O-H-215 \$77.00/DR (5 gallons)
049120-500 6840-882-4810

58. Herbicide, Simazine 80%. This water dispersible powder contains 80% 2-chloro-4,6-BiS-ethylamino/-S-triazine and 20% inert ingredients. See Ref. (d), page 19, and Ref. (e), page 10.

Spec FED O-H-207 \$12.75/BG (5 pounds)
049160-500 6840-814-7334

II.

59. Herbicide, 2,4,5-T. This solution is formulated to contain 2,4,5-T low volatile ester as an emulsion concentrate, 4 lb. acid equivalent per gallon. See Ref. (d), page 17, and Ref. (e), page 12.

Spec FED O-H-210A \$32.60/PL (5 gallons)
049280-200 6840-582-5440

60. Herbicide, 2,4,5-T. This item is equal to Review No. 59

Spec FED O-H-210A \$348.00/DR (55 gallons)
049280-400 6840-577-4201

II.

61. Herbicide Amino Tordon 101. This benzoic acid compound has proved to be more effective than 2,4-D and some other compounds for the control of various resistant weeds and certain woody plants. Since it is compatible with 2,4-D, dalapon and certain other herbicides, it is occasionally mixed with another compound to produce desired controls.

Spec not given \$57.00/DR (5 gallons)
196199-500 6840-629-1638

II.

62. Herbicide, Pentachlorophenol 5%. This ready to use solution contains 5% pentachlorophenol in a light oil with a water repellent compound. It is stocked primarily as a wood preservative to protect against attack from termites and wood destroying beetles (lyctus). However, pentachlorophenol halts the growth of algae when it is sprayed over small water impoundments (borrow pits and stone quarries). It also retards the growth of water hyacinths at a dosage of only 5 ppm (1 ppm = 0.8345 pounds per 1,000 gallons of water.) Complete eradication might require as much as 80 ppm. When used in these situations, effective control of many species of mosquito larvae may result.

Spec Table No. 236 \$47.50/DR (55 gallons)
Index No. 25 8030-634-7970

No respirators
were ever
provided to us.

45. Respirator, No. 6058. This respirator is recommended for use by all personnel when they are handling pesticides. This device should be equipped with Filter Cartridge R-58 (see Review No. 46). American Optical Company, Safety Division, Southbridge, Mass. 4240-935-5516

Note: This item has been adopted by the Marine Corps and will be listed in a future publication of the Table of Authorized Material. Respirator, Air Filtering, with Cartridge.

46. Filter Cartridge, R-58. This filter cartridge is required for use with Respirator No. 6058 (see Review No. 45). Packed 6 per box. American Optical Co., Safety Division, Southbridge, Massachusetts.
47. Hose Assembly, Rubber, Suction and Return, with brass fitting. This hose assembly is shown as an example of many spare parts which are in stock and available for numerous pesticide dispersal units which are in use. This unit may be used as a suction or a return hose on any Insecticide Fog Generator (Todd). Certain spare parts require the part number, model number and serial number of the apparatus before they can be supplied. The Entomology Division, Naval Medical Field Research Laboratory, Camp Lejeune, North Carolina 28542, has excellent references and might be able to help you identify and procure spare parts. This hose assembly has part number TE40AXH99. \$12.12/each.

51900

3740-374-3405

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