

**RESTRICTED USE PESTICIDE****Due to very high acute toxicity to Humans and Birds**

For retail sale to and use only by certified applicators or persons under the direct supervision and only for those uses covered by the certified applicator's certification. Direct supervision for this product is defined as the certified applicator being physically present during application, mixing, loading, repair and cleaning of application equipment. Commercial certified applicators must also ensure that all persons involved in these activities are informed of the precautionary statements.

**ACCEPTED****AUG 18 1992**

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 5905-414

**7.5 LB. METHYL PARATHION****Emulsifiable Insecticide Concentrate****ACTIVE INGREDIENTS:****(By Weight)**

Methyl Parathion	
(0,0-dimethyl 0-4-nitrophenyl phosphorothioate) ..	70.00%
Related Compounds .....	2.73%
<b>INERT INGREDIENTS .....</b>	<b>27.27%</b>
<b>TOTAL .....</b>	<b>100.00%</b>

One gallon of Helena 7.5 lb. Methyl Parathion contains  
7.5 pounds of Methyl Parathion

**KEEP OUT OF REACH OF CHILDREN****POISON****DANGER****(skull & crossbones placed here)**

**PELIGRO: AL USARIO: Si usted no lee ingles no use este producto hasta que la etiqueta le haya sido explicado ampliamente.**

**STATEMENT OF PRACTICAL TREATMENT**

Call a doctor (physician), clinic or hospital immediately. Explain that the victim has been exposed to methyl parathion and describe his condition.

**IF SWALLOWED:** Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger or blunt object. Do not induce vomiting or give anything by mouth to an unconscious person. Get medical attention.

**IF INHALED:** Go to an area where the pesticide has not been applied. Get medical attention if needed. If breathing has stopped, start artificial respiration immediately and maintain until doctor sees victim.

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IF ON SKIN: Immediately wash skin with plenty of water while removing contaminated clothing and shoes. See a doctor immediately.

IF IN EYES: Immediately flush eyes with plenty of water. See a doctor immediately.

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SN-0291/0491  
E.P.A. Reg. No. 5905-414  
First letters of product batch  
code indicate producing  
establishment:

5905-GA-1=CG . 5905-AR-1=WA

5905-CA-1-KC . 5905-IA-1=DI

NET CONTENTS:

RQ, METHYL PARATHION MIXTURES,  
LIQUID, (Containing  
over 25% Methyl Parathion),  
POISON B, NA 2783  
(ERG Guide No. 55)

Manufactured by  
HELENA CHEMICAL COMPANY  
Memphis, Tn 38119

**PRECAUTIONARY STATEMENTS**

**Hazards to Humans And Domestic Animals**

**DANGER - POISON  
POISONOUS IF SWALLOWED**

**POISONOUS BY SKIN CONTACT**

Poisonous if touched by hands or spilled or splashed on skin, in eyes or on clothing (liquid goes through clothes).

**POISONOUS IF BREATHED**

Breathing vapor or spray mist may be fatal.

**STATEMENT OF PRACTICAL TREATMENT  
POISONING SYMPTOMS**

Methyl Parathion is a very dangerous poison. It rapidly enters the body by contact with all skin surfaces and eyes. Clothing wet with this material must be removed immediately. Exposed persons must receive prompt medical treatment or they may die.

Some of the signs and symptoms of poisoning are: Headache, nausea, vomiting, cramps, weakness, blurred vision, pin-point pupils, tightness in chest, labored breathing, nervousness, sweating, watering of eyes, drooling or frothing of mouth and nose, muscle spasms and coma.

**NOTE TO PHYSICIAN**

Since any symptoms from absorption of this combination product are likely to be those of methyl parathion intoxication, treatment should be directed towards the relief of cholinesterase inhibition.

**ANTIDOTE** - Administer atropine sulfate in large doses, TWO to FOUR mg. intravenously or intramuscularly as soon as cyanosis is overcome. Repeat at 5 to 10 minute intervals until signs of atropinization appear. 2-PAM chloride is also antidotal and may be administered in conjunction with atropine. **DO NOT GIVE MORPHINE OR TRANQUILIZERS.** Methyl Parathion is a strong cholinesterase inhibitor affecting the central and peripheral nervous systems and producing cardiac and respiratory depression. At first sign of pulmonary edema, the patient should be given supplemental oxygen and treated symptomatically. Continued absorption of the poison may occur and fatal relapses have been reported after initial improvement: **VERY CLOSE SUPERVISION OF THE PATIENT IS INDICATED FOR AT LEAST 48 HOURS.**

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## WORK SAFETY RULES

The National Pesticide Telecommunication Network is available for recommendations regarding poisoning management, emergency treatment and other information regarding the toxicity of methyl parathion. The toll free number for the National Pesticide Telecommunication Network is 1-800-858-7378.

I. Handled indoors provide mechanical exhaust ventilation. Keep all unprotected persons, children, livestock, and pets away from treated area or where there is danger of drift. Do not rub eyes or mouth with hands. If you feel sick in any way, STOP work and get help right away, see First Aid (Practical Treatment) section.

**HANDLE THE CONCENTRATE ONLY WHEN WEARING THE FOLLOWING PROTECTIVE CLOTHING AND EQUIPMENT!**

Wear a protective suit of one or two pieces that covers all parts of the body except the head, hands, and feet. Wear chemical resistant gloves, chemical resistant apron, and chemical resistant shoes, shoe coverings, or boots. Wear goggles or a face shield. Wear a pesticide respirator approved by the National Institute for Occupational Safety and Health under the provisions of 30 CFR part II.

USE ONLY WHEN WEARING THE FOLLOWING PROTECTIVE CLOTHING AND EQUIPMENT DURING MIXING/LOADING, APPLICATION, REPAIR, AND CLEANING OF APPLICATION EQUIPMENT, DISPOSAL OF PESTICIDE AND EARLY REENTRY INTO TREATED AREAS: protective suit of one or two pieces that covering all parts of the body except the head, hands, and feet; chemical resistant gloves; chemical resistant shoes (or chemical resistant shoe coverings or chemical resistant boots); goggles or a face shield; hood or wide brimmed hat; NIOSH approved respirator.

IF MIXING/LOADING IS PERFORMED USING A CLOSED SYSTEM, THE FOLLOWING PROTECTIVE CLOTHING AND EQUIPMENT MAY BE WORN AS AN ALTERNATIVE: long-sleeve shirt; long-legged pants; chemical resistant gloves; chemical resistant apron; shoes and socks. Goggles or face shield must be worn when the system is under pressure. All other protective clothing and equipment required for use with open systems must be available nearby.

IF APPLICATION IS PERFORMED USING AN ENCLOSED CAB OR COCKPIT, THE FOLLOWING PROTECTIVE CLOTHING AND EQUIPMENT MAY BE WORN AS AN ALTERNATIVE: long-sleeve shirt and long-legged pants; shoes and socks. Chemical resistant gloves must be available in the cab or cockpit and must be worn during entry to and exit from the application vehicle. All other protective clothing and equipment required for use during application must be available in the cab and must be worn when exiting the cab into treated areas. When used for this purpose, contaminated clothing may not be brought back into cab unless in an enclosure such as a plastic bag. REMEMBER-THIS CLOTHING IS INADEQUATE TO PROTECT YOU DURING REPAIR AND CLEANING OF APPLICATION EQUIPMENT AND EARLY REENTRY TO TREATED

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**AREAS! REFER TO PROTECTIVE CLOTHING AND EQUIPMENT REQUIREMENTS ABOVE.**

**IMPORTANT!** If pesticide comes in contact with skin, wash off with soap and water and contact a physician immediately. Always wash hands, face, and arms with soap and water before smoking, eating, drinking, or toileting.

**AFTER WORK:** before removing gloves, wash them with soap and water. Take off all work clothes and shoes. Shower using soap and water. Wear only clean clothes when leaving job-do not wear contaminated clothing. Personal clothing worn during work must be stored and laundered separately from protective clothing and household articles. Store protective clothing separately from personal clothing. Clean or launder protective clothing after each use. Respirators must be cleaned and filters replaced according to instructions included with the respirators. Protective clothing and protective equipment heavily contaminated or drenched with methyl parathion must be destroyed according to state and local regulations. **HEAVILY CONTAMINATED OR DRENCHED CLOTHING CANNOT BE ADEQUATELY DECONTAMINATED. DURING AERIAL APPLICATION, HUMAN-FLAGGERS ARE PROHIBITED.**

Consult your State Agricultural Extension Service or Experiment Station regarding posting treated areas.

#### **ENVIRONMENTAL HAZARDS**

This pesticide is highly toxic to aquatic invertebrates and wildlife. Shrimp, birds, and other aquatic organisms may be killed at recommended application rates or in treated areas.

Do not apply directly to water or wetlands (swamps, bogs, marshes, and potholes). Runoff and drift from target areas may be hazardous to aquatic organisms in adjacent aquatic sites. Do not contaminate water by cleaning of equipment or disposal of washwaters.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

#### **PHYSICAL OR CHEMICAL HAZARDS**

**Do not use or store near heat or open flame.**

#### **DIRECTIONS FOR USE**

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

#### **CHEMIGATION PROHIBITION**

Do not apply this product through any type of irrigation system.

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#### RE-ENTRY STATEMENT

Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons.

Do not enter treated areas for 48 hours unless appropriate protective clothing is worn. See "Work Safety Rules" for the appropriate clothing for early re-entry.

Because certain states may require more restrictive reentry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.

Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. Inform workers of areas or fields that may not be entered without specific protective clothing, period of time field must be vacated and appropriate actions to take in case of accidental exposure. An example of such information is given under written warnings. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Written warnings must include the following information:

##### DANGER

Area treated with Methyl Parathion on (insert date). Do not enter without appropriate protective clothing for 48 hours (insert State Department of Agriculture's reentry interval, if more restrictive).

In case of accidental exposure to pesticide spray or dust, wash the skin thoroughly with soap and water. Remove contaminated clothing and wash before reuse. If in eyes, flush with plenty of water. If inhaled, go to an area where the pesticide has not been applied. Get medical attention if needed.

Reentry into treated fields is prohibited for 48 hours after application, unless all protective clothing and equipment required for early reentry as described elsewhere on the label is worn.

#### STORAGE AND DISPOSAL

##### Pesticide Storage

Do not store below 20°F, (-7°C).

Do not use or store near heat, open flame or hot surfaces.

Keep out of reach of children and animals. Store in original containers only. Store in a cool, dry place and avoid excess heat. Carefully open containers. After partial use, replace lids and close tightly. Do not put concentrate or dilute material into food or drink containers. Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal.

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In case of spill, avoid contact, isolate area and keep out animals and unprotected persons. Confine spills. Call 901-761-0050.

To confine spill: If liquid, dike surrounding area or absorb with sand, cat litter or commercial clay. Place damaged package in a holding container. Identify contents.

#### **Pesticide Disposal**

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

#### **Container Disposal**

Metal containers-Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Plastic containers-Triple rinse (or equivalent). Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

#### **MIXING AND SPRAYING**

Mix in water with agitation; agitate while spraying. Apply to row and field crops in 3 to 10 gals. (California only: use 20 to 100 gals.) of water per acre by ground spray rig or 1 to 3 gals. (California only: use 5 to 15 gals.) of water by airplane.

**COMPATIBILITY** - Avoid combinations containing highly alkaline materials such as lime-sulfur solutions or lime. Alkaline compounds will reduce the effectiveness of Methyl Parathion.

**ALFALFA:** Alfalfa Weevil (larvae) - 1/4 to 1/2 pint per acre. (Apply when 75% terminals show feeding, when buds and shoots appear ragged, or when the larvae count reach 25 per sweep. Do not apply within 15 days of harvest.) Aphids (including Pea Aphid and Spotted Alfalfa Aphid) - 1/4 to 1/2 pint per acre. (For Spotted Alfalfa Aphid, apply early in spring. Do not apply within 15 days of harvest.) Armyworms, Cutworms (Climbing), Flea Beetles, Grasshoppers, Leafhoppers and Thrips - 1/4 to 1/2 pint per acre. (Do not apply within 15 days of harvest.) Alfalfa Caterpillars, Alfalfa Weevil (adult) (Refer also to Egyptian weevil). Clover Leaf Weevil and Webworms - 1/2 pint per acre. (Do not apply within 15 days of harvest.) Lygus Bugs, Mites and Stink Bugs - 1/4 to 3/4 pint per acre. (Do not apply within 15 days of harvest.) Egyptian Alfalfa Weevil - 1/2 to 1 pint per acre. (Do not apply within 15

days of harvest.) Alfalfa Seed Chalcid -  $3/4$  to  $1\ 1/4$  pints per acre. (Do not apply within 20 days of harvest.)

**BARLEY:** Thrips (Barley) -  $1/4$  to  $1/3$  pint per acre. (Do not apply within 15 days of harvest.) Cutworms (Climbing), False Chinch Bug, Leafhopper, Mites (Brown Wheat) and (Winter Grain) -  $1/4$  to  $1/2$  pint per acre. (Do not apply within 15 days of harvest.) Aphids (including Greenbug) -  $1/4$  to  $3/4$  pint per acre. (Do not apply within 15 days of harvest. Apply in early spring for Greenbug control.) Armyworms (to 3rd instar), Black Grass Bugs and Stink Bugs -  $1/4$  to  $3/4$  pint per acre. (Do not apply within 15 days of harvest.) Chinch Bugs and Say Stink Bugs -  $3/4$  pint per acre. (Do not apply within 15 days of harvest.)

**BEANS:** Aphids, Armyworms, Flea Beetles, Leafhoppers, Mites and Plant Bugs (including Lygus Bugs) -  $1/2$  to  $1\ 1/2$  pints per acre. Cabbage Looper - 1 pint per acre. Cowpea Curculio, Cutworm (including Climbing and surface feeding species) and Stink Bugs - 1 to  $1\ 1/2$  pints per acre. Dry Beans - Preharvest interval is 15 days through  $1\ 1/2$  pints per acre. Green and Lima - Preharvest interval is 15 days through  $1/2$  pint per acre and 21 days from  $1/2$  pint through  $1\ 1/2$  pints per acre. Do not apply if the crop or weeds in the treatment area are in bloom.

**BEETS:** Armyworms, Flea Beetles, Leafhoppers and Mites -  $1/2$  to 1 pint per acre. (Do not apply within 15 days of harvest. Do not apply within 21 days of harvest. Cabbage Looper, Plant Bugs (including Lygus Bugs) and Stink Bugs - 1 pint per acre. (Do not apply within 15 days of harvest. Do not apply within 21 days of harvest. Aphids - 1 to  $1\ 1/4$  pints per acre. (Do not apply within 15 days of harvest. Do not apply within 21 of harvest.

**BROCCOLI:** Thrips -  $1/4$  to  $1/2$  pint per acre. (Do not apply within 7 (seven) days of harvest.) Aphids and Armyworms -  $1/4$  to 1 pint per acre. (Do not apply within 21 days of harvest.) Flea Beetles, Leafhoppers and Mites -  $1/2$  to 1 pint per acre (Do not apply within 21 days of harvest.) Imported Cabbageworms, Cabbage Loopers and Stink Bugs - 1 to  $1\ 1/4$  pints per acre. (Do not apply within 21 days of harvest.) Plant Bugs -  $1\ 1/4$  pints per acre. (Do not apply within 21 days of harvest.)

**BRUSSELS SPROUTS:** Aphids, Armyworms and Thrips -  $1/4$  to 1 pint per acre. (Do not apply within 21 days of harvest.) Flea Beetles, Leafhoppers and Mites -  $1/2$  to 1 pint per acre. (Do not apply within 21 days of harvest.) Imported Cabbageworms, Cabbage Loopers and Stink Bugs - 1 to  $1\ 1/4$  pints per acre. (Do not apply within 21 days of harvest.) Plant Bugs -  $1\ 1/4$  pints per acre. (Do not apply within 21 days of harvest.)

**CABBAGE:** Aphids, Armyworms, and Thrips -  $1/4$  to 1 pint per acre. (Do not apply within 21 days of harvest.) Flea Beetle, Leafhoppers and Mites -  $1/2$  to 1 pint per acre. (Do not apply within 21 days of harvest.) Imported Cabbageworms, Cabbage Loopers and Stink Bugs - 1 to  $1\ 1/4$  pints per acre. (Do not apply within 21 days of



harvest.) Plant Bugs - 1 1/4 pints per acre. (Do not apply within 21 days of harvest.)

**CARROTS:** Aphids, Armyworms, Flea Beetles, Leafhoppers, and Mites - 1/2 to 1 pint per acre. (Do not apply within 15 days of harvest. Do not use treated carrot tops for food or feed.) Cutworms, Cabbage Loopers and Plant Bugs - 1 pint per acre. (Do not apply within 15 days of harvest. Do not use treated carrot tops for food or feed.)

**CAULIFLOWER:** Aphids, Armyworms, Flea Beetles, Leafhoppers, and Mites - 1/2 to 1 pint per acre. (Do not apply within 21 days of harvest.) Imported Cabbageworms, Cabbage Loopers and Stink Bugs - 1 to 1 1/2 pints per acre. (Do not apply within 21 days of harvest.) Plant Bugs - 1 1/2 pints per acre. (Do not apply within 21 days of harvest.)

**CELERY:** Aphids, Armyworms, Flea Beetles, Leafhoppers, and Mites - 1/2 to 1 pint per acre. (Do not apply within 15 days of harvest.) Cabbage Loopers, Plant Bugs and Stink Bugs - 1 pint per acre. (Do not apply within 15 days of harvest.)

**CLOVER:** Alfalfa Weevil (larvae), Aphids (Including Spotted Alfalfa Aphid), Armyworms, and Leafhoppers - 1/4 to 1/2 pint per acre. (Do not apply within 15 days of harvest.) [For Aphids (including Spotted Alfalfa Aphid) apply early in the spring.] [For Alfalfa Weevil (larvae) - Apply when 75% of terminals show feeding, when buds and shoots appear ragged, or when the larval count reaches 25 per sweep.] Lygus Bugs and Mites - 1/4 to 3/4 pint per acre. (Do not apply within 15 days of harvest.) Clover Seed Chalcid and Climbing Cutworms - 1/4 to 1 1/4 pints per acre. (Do not apply within 20 days of harvest.) (Clover Seed Chalcid - For use on seed crops only.) Alfalfa Weevil (adults), Clover Leaf Weevil and Webworms - 1/2 pint per acre. (Do not apply within 15 days of harvest.) Thrips - 1/2 to 3/4 pint per acre. (Do not apply within 15 days of harvest.) Egyptian Alfalfa Weevil - 1/2 to 1 pint per acre. (Do not apply within 20 days of harvest.)

**COLLARDS:** Aphids, Armyworms, Flea Beetles, Leafhoppers and Mites - 1/2 to 1 pint per acre. (Do not apply within 21 days of harvest.) Imported Cabbageworms, Cabbage Loopers, Stink Bugs and Thrips - 1 to 1 1/2 pints per acre. (Do not apply within 21 days of harvest.) Plant Bugs - 1 1/2 pints per acre. (Do not apply within 21 days of harvest.)

**CORN:** Aphids (including Corn Leaf Aphid), Armyworms, Fall Armyworms, Corn Rootworms (including Western Corn Rootworm - adults), Climbing Cutworms, Flea Beetles, Mites and Stink Bugs - 1/4 pint per acre. (Do not apply within 12 days of harvest. Workers entering treated fields within 48 hours after application should wear protective clothing.) Do not apply to corn during the pollen shed period.

**COTTON:** Fleahoppers (including Cotton Fleahopper) and Thrips - 1/8 to 1/2 pint per acre. (Do not apply within 5 days of handpicking.) (For Thrips - Apply before or during the 4-leaf stage and repeat 1 to 3 times at 7- to 10-day intervals.) Grasshoppers - 1/4 pint per acre. (Do not apply within 5 days of handpicking.) Cotton Leafworm and Garden Webworm - 1/4 to 1/2 pint per acre. (Do not apply within 5 days of handpicking.) Lygus Bugs, Mites, Spider (including Desert Spider Mites and Two-Spotted Spider Mites) - 1/4 to 1 pint per acre. (Do not apply within 5 days of handpicking.) False Chinch Bug and Southern Green Stink Bug - 1/2 pint per acre. (Do not apply within 5 days of handpicking.) Aphids - (including Cotton Aphid, Fall Armyworms (to 3rd instar), Cotton Leafperforator, Cutworms, and Cabbage Loopers - 1/2 to 1 pint per acre. (Do not apply within 5 days of handpicking. Workers entering fields within 48 hours after application should wear protective clothing.) [For Aphids (including Cotton Aphid) apply when Aphids appear in buds and on leaves of seedlings or when honeydew appears on older plants.] Boll Weevil - 1/2 to 3 pints per acre. (For early season control of over-wintering Boll Weevils, apply as early as the 2- to 4-leaf stage and repeat 1 to 3 times at 7- to 10-day intervals. For mid-season control, apply at the start of squaring or after 10 to 25% of the first squares are punctured and repeat at 3- to 8-day intervals as needed or until the top bolls are full grown. Repeat at 3-day intervals during the major fruiting season, and periods of heavy weevil migration.) Saltmarsh Caterpillars, Stink Bugs and Leafrollers - 1 pint per acre. (Do not apply within 5 days of handpicking.) Bollworms - 1 to 3 pints per acre. (Do not apply within 5 days of handpicking.) Armyworms - 1 to 2 pints per acre. (Do not apply within 5 days of handpicking. Workers entering fields within 48 hours after application should wear protective clothing.)

**GRASS (Hay, Pasture):** Armyworms (to 3rd instar), Black Grass Bugs (including Irbisia), False Chinch Bugs, Grasshoppers and Leafhoppers - 3/4 pint per acre. (Do not apply within 15 days of harvest.)

**KALE AND MUSTARD GREENS:** Aphids and Armyworms - 1/4 to 1 pint per acre. Flea Beetles, Leafhoppers and Mites - 1/2 to 1 pint per acre. Imported Cabbageworms, Cabbage Loopers and Stink Bugs - 1 to 1 1/2 pints per acre. Plant Bugs - 1 1/2 pints per acre. (Do not apply within 10 days of harvest through 1/2 pints per acre. Do not apply within 21 days of harvest from 1/2 through 1 1/2 pints per acre.)

**KOHLRABI:** Aphids and Armyworms - 1/4 to 1 pint per acre. (Do not apply within 7 days of harvest through 1/2 pint. Do not apply within 21 days of harvest from 1/2 pint through 1 pint.) Flea Beetles, Leafhoppers and Mites - 1/2 to 1 pint per acre. (Do not apply within 7 days of harvest through 1/2 pint. Do not apply within 21 days of harvest from 1/2 pint through 1 pint.) Imported Cabbageworms, Cabbage Loopers and Stink Bugs - 1 to 1 1/2 pints per acre. (Do not apply within 21 days of harvest. Plant Bugs - 1 1/2

pints per acre (Do not apply within 21 days of harvest from 1 pint through 1 1/2 pints.)

**LETTUCE:** Aphids, Armyworms, Flea Beetles, Imported Cabbageworms, Leafhoppers and Mites - 1/2 to 1 pint per acre. (Do not apply within 21 days of harvest.) Cabbage Loopers and Plant Bugs - 1 pint per acre. (Do not apply within 21 days of harvest.)

**MU...ARD GREENS:** See Kale and Mustard Greens.

**OATS AND RYE:** Brown Wheat Mites - 1/2 to 1/2 pint per acre. (Do not apply within 15 days of harvest from 1/4 pint through 3/4 pint.) Aphids (including Greenbug) and Black Grass Bugs (including Irbisia) - 1/8 to 3/4 pint per acre. (Do not apply within 15 days of harvest from 1/4 pint through 3/4 pint.) Barley Thrips - 1/4 to 1/3 pint per acre. (Do not apply within 15 days of harvest from 1/4 through 3/4 pint.) Leafhoppers - 1/4 to 1/2 pint per acre. (Do not apply within 15 days of harvest from 1/4 through 3/4 pint.) Armyworm (to 3rd instar) and Wintergrain Mites - 1/4 to 3/4 pint per acre. (Do not apply within 15 days of harvest from 1/4 through 3/4 pint.) Climbing Cutworms - 3/8 to 1/2 pint per acre. (Do not apply within 15 days of harvest from 1/4 pint through 3/4 pint.) Chinch Bugs False Chinch Bugs and Say Stink Bugs - 3/4 pint per acre. (Do not apply within 15 days of harvest from 1/4 pint through 3/4 pint.) Stink Bugs - 1/4 to 3/4 pint per acre. (Do not apply within 15 days of harvest from 1/4 pint through 3/4 pint.)

**ONIONS:** Thrips (including Onion Thrips) - 0.9 pint per acre. (Do not apply within 15 days of harvest.)

**PASTURE [Irrigated (Refer also to grass)]:** Mosquitoes (larvae) - 1/10 pint per acre. (Do not apply within 7 days of harvest. Broadcast application to irrigated pastures.)

**PEAS:** Aphids, Armyworms (to 3rd instar), Flea Beetles, Leafhoppers, Mites and Plant Bugs (including Lygus Bugs) - 1/2 to 1 pint per acre. (Do not apply within 10 days of harvest through 1/2 pint. Do not apply within 15 days of harvest from 1/2 pint through 1 pint.) Cowpea Curculio, Cutworms (including Climbing and Surface Feeding species), Cabbage Loopers and Stink Bugs - 1 pint per acre. (Do not apply within 15 days of harvest through 1 pint.) Do not apply if the crop or weed in the treatment area are in bloom.

**POTATOES:** Aphids and Flea Beetles - 1/4 to 1 pint per acre. (Do not apply within 5 days of harvest.) Armyworms, Leafhoppers and Mites - 1/2 to 1 pint per acre. (Do not apply within 5 days of harvest.) False Chinch Bugs, Cabbage Loopers, Plant Bugs (including Lygus Bugs) and Stink Bugs - 1 1/2 pints per acre. (Do not apply within 5 days of harvest.)

**RICE:** Rice Stink Bugs - 1/4 to 1/2 pint per acre. (Do not apply within 15 days of harvest.) Armyworms - 1/2 to 3/4 pint per acre. (Do not apply within 15 days of harvest. Crabs, crayfish and shrimp may be killed. Do not apply where they are important

resources.) **Rice Leafminer and Tadpole Shrimp** - 3/4 pint per acre. (Use restricted to California. Apply at first sign of infestation after planting. Apply by air in 5 to 10 gals. of water. Restrict spill from rice fields for 3 days. Do not use within 14 days of application of 3',4'-dichloropropionanilide as injury may result.)

**RUTABAGAS: Aphids, Armyworms, Flea Beetles, Leafhopper, and Mites** - 1/2 to 1 pint per acre. **Imported Cabbageworms and Cabbage Loopers** - 1 to 1 1/2 pints per acre. **Plant Bugs** - 1 1/2 pints per acre. Preharvest Interval is 7 days when applying 1/2 pint per acre and 21 days from 1/2 pint through 1 1/2 pints per acre.

**RYE: See Oats and Rye.**

**SORGHUM: Corn Leaf Aphids and Spider Mites** - 1/2 pint per acre. (Do not apply within 21 days of harvest. Leaf injury may occur on some hybrid varieties. Do not use wetting agents as more severe injury may occur. Spray a few rows seven (7) days before booting to test effects upon plants.) **Sorghum Midge** - 1/2 to 1 pint per acre. (Do not apply within 21 days of harvest. Leaf injury may occur on some hybrid varieties. Do not use wetting agents as more severe injury may occur. Spray a few rows seven (7) days before booting to test effects upon plants. Apply when approximately 90% of the heads have completely emerged from the boot or not later than the start of blooming.) **Greenbug Aphid** - 3/4 pint per acre. (Do not apply within 21 days of harvest. Leaf injury may occur on some hybrid varieties. Do not use wetting agents as more severe injury may occur. Spray a few rows a week or so before booting to test effects upon plants.) **Aphids** - 1 pint per acre. (Do not apply within 21 days of harvest. Leaf injury may occur on some hybrid varieties. Do not use wetting agents as more severe injury may occur. Spray a few rows a week or so before booting to test effects upon plants.)

**SOYBEANS: Climbing Cutworms** - 1/4 pint per acre. (Do not apply within 15 days of harvest. Do not apply more than twice per growing season.) **Three Cornered Alfalfa Hoppers and Webworms (including Garden Webworms)** - 1/4 to 1/2 pint per acre. (Do not apply within 15 days of harvest. Do not apply more than twice per growing season.) **Stink Bugs** - 1/3 to 1 pint per acre. (Do not apply within 15 days of harvest. Do not apply more than twice per growing season.) **Thrips and Velvetbean Caterpillar** - 3/8 pint per acre. (Do not apply within 15 days of harvest. Do not apply more than twice per growing season.) **Aphids, Blister Beetles, Mexican Bean Beetles and Spider Mites** - 1/2 pint per acre. (Do not apply within 15 days of harvest. Do not apply more than twice per growing season.) **Green Cloverworms and Cabbage Loopers** - 1/2 to 1 pint per acre. (Do not apply within 20 days of harvest. Do not apply more than twice per growing season.) **Armyworms, Fall Armyworms (to 3rd instar), Bean Leaf Beetles, Corn Earworms and Grasshoppers** - 1 pint per acre. (Do not apply within 20 days of harvest. Do not apply more than twice per growing season.)

**SPINACH: Aphids, Armyworms, Mites and Seedcorn Maggot (in crown)** -

1/2 to 1 pint per acre. Cabbage Looper and Plant Bugs - 1 pint per acre. Preharvest Interval is 15 days when applying through 1/2 pint per acre and 21 days when applying from 1/2 through 1 pint per acre.

**SUGAR BEETS:** Aphids, Lygus Bugs, Stink Bugs and Webworms - 3/8 pint per acre. Armyworms, Fall Armyworms, Cutworms (including Climbing Cutworms), Flea Beetle, Grasshoppers, Leafhoppers, Mites and Sugarbeet Webworm - 1/4 to 3/8 pint per acre. Preharvest Interval (roots) of 20 days when applying through 3/8 pint per acre and 60 days if tops are to be fed to livestock.

**SUNFLOWERS:** Sunflower Moths - 1 pint per acre. (Do not apply within 30 days of harvest. Do not apply more than 3 times at 5-day intervals per season.)

**SWEET POTATOES:** Aphids, Armyworms(to 3rd instar), Cutworms (including Climbing and surface feeding species), Flea Beetles, Leafhoppers, Cabbage Loopers and Spider Mites - 3/4 pint per acre. (Do not apply within 5 days of harvest.)

**TURNIPS:** Aphids (including Cabbage Aphid) and Armyworms (to 3rd instar) - 1/4 to 3/4 pint per acre. (Do not apply within 7 days of harvest through 1/2 pint.) Do not apply within 15 days of harvest from 1/4 pint through 3/4 pint (roots). (Do not apply within 21 days of harvest if tops are to be used as food or feed.) Flea Beetles, Leafhoppers, Leafminers and Mites - 1/2 to 3/4 pint per acre. (Do not apply within 15 days of harvest from 1/2 to 3/4 pint (roots). Do not apply within 21 days of harvest if tops are to be used as food or feed). Imported Cabbageworms, Cabbage Loopers and Plant Bugs - 3/4 pint per acre. (Do not apply within 15 days of harvest through 3/4 pint (roots). Do not apply within 21 days of harvest if tops are to be used as food or feed.

**VETCH:** Aphids, Alfalfa Weevil (larvae), Leafhoppers and Mites - 1/4 to 1/2 pint per acre. (For Alfalfa Weevil larvae, apply when 75% of the terminals show feeding, when buds and shoots appear ragged, or when the larvae count reaches 25 per sweep). Armyworm - 1/4 to 1 1/4 pints per acre. Climbing Cutworms, Lygus Bugs and Vetch Bruchids - 1/2 pint per acre. Preharvest Interval is 15 days when applying through 1 pint per acre and 20 days when applying from 1 pint through 1 1/4 pints per acre.

**WHEAT:** Brown Wheat Mites - 1/8 to 1/2 pint per acre. (Do not apply within 15 days of harvest from 1/4 pint through 3/4 pint.) Aphids (including Greenbug) - 1/8 to 3/4 pint. Barley Thrips - 1/4 to 1/3 pint per acre. (Do not apply within 15 days of harvest from 1/4 pint through 3/4 pint.) Leafhoppers - 1/4 to 1/2 pint per acre. (Do not apply within 15 days of harvest from 1/4 pint through 3/4 pint.) Armyworms (to 3rd instar), Wintergrain Mites and Stink Bugs - 1/4 to 3/4 pint per acre. (Do not apply within 15 days of harvest from 1/4 pint through 3/4 pint.) Climbing Cutworms - 3/8 to 1/2 pint per acre. (Do not apply within 15 days of harvest from 1/4 pint through 3/4 pint.) Chinch Bugs, False Chinch Bugs and Say

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Stink Bugs - 3/4 pint per acre. (Do not apply within 15 days of harvest from 1/4 pint through 3/4 pint.)

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