

ACCEPTED
March 1970
 UNDER THE FEDERAL INSECTICIDE
 FUNGICIDE AND RODENTICIDE AC.
 FOR ECONOMIC POISON REGISTERED
 UNDER NO. **9936-5**
 TO REGISTER COMMENTS



FERTILIZER

Contains 0.4% *DI-SYSTON

USDA Registration No. 9936-5

9936-5

STATEMENT OF INGREDIENTS FOR INSECT CONTROL

Active ingredient	O,O-diethyl S-[2-ethylthio ethyl] phosphor diethioate	0.4%
Inert ingredients		99.6%
U.S. Patent No. 2,759,210	T.M.	© 1968

STATEMENT OF INGREDIENTS AS PLANT FOOD

- Ammoniac Nitrogen
- Available Phosphoric Acid
- Water Soluble Potash

DIRECTIONS FOR USE

DI-SYSTON is a systemic insecticide entering the plant by absorption through the roots. The insecticide placed near the roots is translocated to all parts of the plant and kills sucking insects feeding on the plant. The active ingredient is released slowly providing long protection during the plant's susceptible early growth.

VEGETABLES

BEANS To control Aphids, Leafhoppers, Mexican Bean Beetle Larvae, Mites and Thrips, apply at the rate of 250-625 lbs. (1 to 2 1/2 lbs. actual insecticide) per acre. **For Snap or Green Lima Beans**, apply specified dosage per acre in a band on each side of the seed furrow at planting time only. **For Dry Beans**, apply specified dosage per acre as a side-dressing in each side of the row after plants become established but not within 30 days of harvest. Do not apply directly to seed. Do not apply more than once per season. **IMPORTANT** information under "RECOMMENDED DI-SYSTON APPLICATIONS" for additional information before using on this crop.

BRUSSELS SPROUTS, CAULIFLOWER To control Aphids, Flea Beetles, Leafhoppers, Mites and Thrips, apply at the rate of 250-625 lbs. (1 to 2 1/2 lbs. actual insecticide) per acre. **For Brussels Sprouts**, apply specified dosage per acre in a band on each side of the seed furrow at planting time as a side-dressing in each side of the row after plants are established but not within 30 days of harvest. **For Cauliflower**, apply specified dosage per acre in a band on each side of the seed furrow at planting time only. Do not apply directly to seed. Do not apply more than once per season. **IMPORTANT** information under "RECOMMENDED DI-SYSTON APPLICATIONS" for additional information before using on this crop.

BROCCOLI, CABBAGE To control Aphids, Flea Beetles, Leafhoppers, Mites and Thrips, apply at the rate of 250-625 lbs. (1 to 2 1/2 lbs. actual insecticide) per acre. **For Broccoli**, apply specified dosage per acre in a band on each side of the seed furrow at planting time only. **For Cabbage**, apply specified dosage per acre as a side-dressing in each side of the row after plants are established but not within 30 days of harvest. Do not apply directly to seed. Do not apply more than once per season. **IMPORTANT** information under "RECOMMENDED DI-SYSTON APPLICATIONS" for additional information before using on this crop.

POTATOES To control Aphids, Flea Beetles, Leafhoppers, Mites and Thrips, apply at the rate of 250-625 lbs. (1 to 2 1/2 lbs. actual insecticide) per acre. **For Potatoes**, apply specified dosage per acre in a band on each side of the seed furrow at planting time only. Do not apply directly to seed. Do not apply more than once per season. **IMPORTANT** information under "RECOMMENDED DI-SYSTON APPLICATIONS" for additional information before using on this crop.

SPINACH To control Aphids, Leafhoppers, Mites and Thrips, apply at the rate of 250-625 lbs. (1 to 2 1/2 lbs. actual insecticide) per acre. **For Spinach**, apply specified dosage per acre in a band on each side of the seed furrow at planting time only. Do not apply directly to seed. Do not apply more than once per season. **IMPORTANT** information under "RECOMMENDED DI-SYSTON APPLICATIONS" for additional information before using on this crop.

PEAS To control Aphids and Leafhoppers, apply by drilling or broadcast at planting time, or as a side-dressing in each side of the row after emergence at the rate of 250-625 lbs. (1 to 2 1/2 lbs. actual insecticide) per acre. Do not apply more than once per season or within 30 days of harvest.

SUGAR BEETS To control Aphids, Leafhoppers and Mites, apply at the rate of 250 lbs. (1 lb. actual insecticide) per acre. 30 inch row spacing, in a band on each side of the seed furrow at planting. Do not apply directly on seed. Do not apply more than 3 times per season or within 30 days of harvest. Allow a minimum of 21 days between applications. Read **IMPORTANT** statement under "RECOMMENDED DI-SYSTON APPLICATIONS" for additional information before using on this crop.

NON-BEARING FRUIT

STRAWBERRIES (PROPAGATING PLANTS ONLY) To control Aphids, Mites (except Cyclamen Mites), apply 500-1250 lbs. (2 to 4 lbs. actual insecticide) per acre (42 inch row spacing) by side-dressing in each side of the row as needed. Do not use fruit from treated plants for food purposes.

RECOMMENDED DI-SYSTON APPLICATIONS

IMPORTANT When this product is used on Tomatoes, Sugar Beets or Beans at the maximum recommended rate under adverse conditions, such as extremely cool and wet or extremely dry weather, the insecticide may cause some delay in emergence, stunting of seedlings, or reduction in stand. Such damage may be more pronounced in light sandy soils. Plant injury may also occur or may be enhanced when certain pre-emergent herbicides are used in conjunction with DI-SYSTON.

CONTAINER DISPOSAL

DO NOT RE-USE THE CONTAINER Completely empty the container and burn the unused chemical at a safe distance from an inhabited area away from water bodies. Burn the empty container completely. Even in extreme weather conditions, get away from the smoke. Do not use container in any contact with food or drinking water.

DANGER POISON

Keep out of reach of children

Prevent us if swallowed, inhaled or absorbed through the skin. Do not get it on your face, in your eyes, on your skin, or in anything you eat or drink. Wash your face and hands thoroughly with water. If it gets on your face, wash it off immediately with water. If it gets on your skin, wash it off immediately with water. If it gets on your clothes, wash them off immediately with water. If it gets on your eyes, wash them off immediately with water. If it gets on your mouth, spit it out and wash your mouth out with water. If you are pregnant, do not use this product.

Symptoms of Poisoning: A severe headache, dizziness, nausea, vomiting, contracted pupils, stomach pain, vomiting and diarrhea.

Treatment: In case of poisoning, call a physician immediately. Show this label to the physician.

on each side of the seed furrow at planting time only. For **Dry Beans**, apply specified dosage per acre as a side-dressing on each side of the row after plants become established but not within 60 days of harvest. Do not apply directly to seed. Do not apply more than once per season. Read **IMPORTANT** statement under "**RECOMMENDED DI-SYSTON APPLICATIONS**" for additional information before using on this crop.

BRUSSELS SPROUTS, CAULIFLOWER To control Aphids, Flea Beetles, Leafhoppers, Mites and Thrips on Brussels Sprouts and Aphids, Flea Beetles and Leafhoppers on Cauliflower, apply 2 1/2 lbs. of 1% actual insecticide per acre. Apply specified dosage per acre in a band on each side of the seed furrow at planting or as a side-dressing after plants become established. Do not apply directly to the seed. Do not apply more than twice per season and not within 60 days of harvest for Brussels Sprouts or 42 days of harvest for Cauliflower. Allow a minimum of 21 days between applications.

BROCCOLI, CABBAGE To control Aphids, Flea Beetles, Leafhoppers, Mites and Thrips on Broccoli and Aphids, Flea Beetles, Leafhoppers and Thrips on Cabbage, apply 2 1/2 lbs. of 1% actual insecticide per acre. Apply specified dosage per acre in a band on each side of the seed furrow at planting or as a side-dressing after plants become established. Do not apply directly to seed. Do not apply more than once per season. Do not use within 14 days of harvest for Broccoli or 42 days of harvest for Cabbage.

POTATOES To control Aphids, Flea Beetles (except Tuber Flea Beetles), Leafhoppers, Potato Psyllid, Colorado Potato Beetle (early season reduction), apply 500-750 lbs. of 2 to 3 lbs. actual insecticide per acre. Apply specified dosage per acre in the furrow or in a band on each side of the seed furrow at planting time or as a side-dressing after plants become established. Do not apply within 75 days of harvest. Higher rate to be used in organic soils.

SPINACH To control Aphids, Leafhoppers, Mites and Thrips on Spinach, apply 250 lbs. of 1 lb. actual insecticide per acre. Apply specified dosage per acre in a band on each side of the seed furrow at planting time only. Do not apply directly on the seed.

TOMATOES—To control Aphids, Flea Beetles, Leafhoppers, Leaf Miners, Colorado Potato Beetles (early season reduction) and Mites, apply 250-750 lbs. of 2 to 3 lbs. actual insecticide per acre. Apply maximum specified dosage per acre in a band on each side of the seed furrow at planting time only. Do not apply directly to seed. Where 2 treatments are required, use only 20-500 lbs. per acre per treatment applied in a band on each side of the seed furrow at planting and as a side-dressing after plants become established. Allow a minimum of 21 days between applications. Do not apply within 30 days of harvest. Read **IMPORTANT** statement under "**RECOMMENDED DI-SYSTON APPLICATIONS**" for additional information before using on this crop.

VEGETABLES GROWN FOR SEED ONLY To control Aphids, Leafhoppers, Mites and Thrips, on Carrots, Garlic, Onions, Radishes, and Turnips **grown for seed only**, apply at the rate of 250-500 lbs. of 2 lbs. of actual insecticide per acre (1 1/2 inch row spacing) in a band on each side of the seed furrow at planting. Do not apply directly on the seed. Broadcast side-dress applications may be made after plants become established. Repeat as necessary. (On crops where row spacing is extremely narrow, do not place treated band in furrow closer together than 6 inches.) Do not pasture or use treated crop for feed, food or forage.

FIELD CROPS

ALFALFA To control Aphids and Mites, apply at the rate of 250-500 lbs. of 2 lbs. of actual insecticide per acre. Apply specified dosage per acre in a band on each side of the seed furrow at planting. Do not apply directly on the seed. Broadcast side-dress applications may be made after plants become established. Repeat as necessary. (On crops where row spacing is extremely narrow, do not place treated band in furrow closer together than 6 inches.) Do not pasture or use treated crop for feed, food or forage.

BARLEY, OATS To control Aphids and Mites, apply at the rate of 250-500 lbs. of 2 lbs. of actual insecticide per acre. Apply specified dosage per acre in a band on each side of the seed furrow at planting or as a side-dressing after emergence. Do not apply more than twice per season and not within 60 days of harvest. Allow a minimum of 21 days between applications. Do not pasture or use treated crop for feed, food or forage.

CORN To control Flea Beetles, Aphids, Leafhoppers, Mites and Thrips, apply at the rate of 250-500 lbs. of 2 lbs. of actual insecticide per acre. Apply specified dosage per acre at planting time in the furrow or in a band on each side of the seed furrow for human food purposes with the exception of treatment of corn forage or of treated corn for feed or ensilage within 60 days of planting.

with DI-SYSTON

CONTAINER DISPOSAL

DO NOT RE-USE THE CONTAINER Completely empty the contents and bury the unused chemical at least 18 inches deep in an isolated location away from water supplies. Burn the empty container completely. Exercise extreme caution and stay well away from the smoke. Do not use container in any connection with feed, food or drinking water.



DANGER POISON

Keep out of reach of children



POISONOUS if swallowed, inhaled or absorbed through the skin. Rapidly absorbed through the skin. Do not get in eyes, on skin, or on clothing. Do not breathe dust. Wear protective clothing, and cotton or natural rubber gloves. If cotton gloves are used, they must be laundered with soap and hot water or discarded after each day's use. Do not wear the same glove for other work. Rubber gloves should be washed with soap and water after each use.

When using this Insecticide-Fertilizer mixture on non-food crops in greenhouses or other enclosed areas, wear a mask or respirator of a type approved by the U.S. Dept. of Agriculture for DI-SYSTON protection. Do not contaminate feed or feedstuffs. Keep all unprotected persons out of the operating area or vicinity. Wash hands, arms and face thoroughly with soap and warm water before eating or smoking. Wash all contaminated clothing with soap and hot water before re-use.

SYMPTOMS OF POISONING A sense of "tightness" in the chest. Sweating. Contracted pupils. Stomach pains. Vomiting and diarrhea.

TREATMENT—In case of poisoning, call a physician immediately. Have patient lie down and keep quiet. If swallowed, induce vomiting by giving a tablespoon of salt in a glass of warm water. Administer milk or water freely and again induce vomiting until fluid is clear. If on skin, remove contaminated clothing and wash skin immediately with soap and warm water. If eyes are contaminated, wash with flowing water for at least 15 minutes.

TO PHYSICIAN—ANTIDOTE Administer atropine sulfate in large therapeutic doses. Repeat to the point of tolerance. 2-PAM is also an antidote and may be administered in conjunction with atropine.

Compound inhibits cholinesterase, resulting in stimulation of the central nervous system, the parasympathetic nervous system, and the somatic motor nerves. Do not give morphine. Watch for pulmonary edema, which may develop in a few hours after poisoning after 2 hours. At first sign of pulmonary edema, the patient should be placed in an oxygen tent and treated symptomatically.

CAUTION This product is extremely toxic to fish and wildlife. Keep out of ponds and streams. Do not apply in any manner that pollutes the lake.

PATENT LICENSE

The principal active ingredient of this product is patented under U.S. Pat. No. 2,152,912 and Canadian Patent No. 275,851 of Chemagro Corporation, a U.S. Manufacturer, and the purchaser of this product is hereby notified that it is not to be used to manufacture or sell any other product which may be similar to the product of this manufacturer. The purchaser of this product is hereby notified that it is not to be used to manufacture or sell any other product which may be similar to the product of this manufacturer. Any use of this product in violation of the above conditions is prohibited and the purchaser of this product is hereby notified that it is not to be used to manufacture or sell any other product which may be similar to the product of this manufacturer.

NOTICE: Do not breathe dust or spray. Do not get on face, neck, or hands. Do not get on clothing. Do not get on skin. Do not get in eyes, on skin, or on clothing. Do not breathe dust. Do not get on face, neck, or hands. Do not get on clothing. Do not get on skin. Do not get in eyes, on skin, or on clothing. Do not breathe dust. Do not get on face, neck, or hands. Do not get on clothing. Do not get on skin. Do not get in eyes, on skin, or on clothing.

Manufactured by
W. R. GRACE & CO.
AGRICULTURAL PRODUCTS DIVISION
Portland, Oregon
Quincy, Wash.—Independence, Ore

Net weight 80 lbs.