

Complete directions for use

Proxol[®] 80 SP

Insecticide

TUCO

ACCEPTED

JUN 6 1975

Proxol® 80 SP

Insecticide

Active Ingredient

| | |
|--|----------|
| Dimethyl (2,2,2-trichloro-1-hydroxy-ethyl) phosphonate | 80% w/w |
| Inert Ingredients | 20% w/w |
| | 100% w/w |

WARNING: Keep out of reach of children.

May be fatal if swallowed. Harmful if inhaled, or absorbed through the skin. Do not get in eyes or on skin. Avoid breathing mist or dust. Wash thoroughly with soap and warm water after handling. Wash contaminated clothing with soap and hot water before reuse. Do not contaminate food or feed. Keep bag closed. Use with adequate ventilation.

FIRST AID: Exposure will result in cholinesterase depression. If swallowed, induce vomit-

ing. In case of contact, remove contaminated clothing. Wash skin with soap and water; for eyes, flush with water for at least 15 minutes. Obtain prompt medical aid.

ANTIDOTE: Atropine sulfate is antidotal. 2-PAM is also antidotal and may be administered in conjunction with atropine.

PRECAUTION: Keep children and pets off treated areas until spray has dried. Do not use on other crops used for food or forage. Use only according to label directions. Application at rates above those shown may result in illegal crop residues. Do not treat food crops grown in the greenhouse. This product is toxic to bees and should not be applied when bees are actively visiting the area.

WILDLIFE: This product is toxic to birds and other wildlife. Keep out of lakes, streams, ponds, tidal marshes and estuaries. Do not apply where

runoff is likely to occur. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water by cleaning of equipment or disposal of wastes. Apply this product only as specified on this label.

CONTAINER & WASTE DISPOSAL: Rinse equipment and dispose of wastes by burying in noncrop land away from water supplies. Dispose of empty container by burying with wastes or by burning. (Keep out of smoke.)

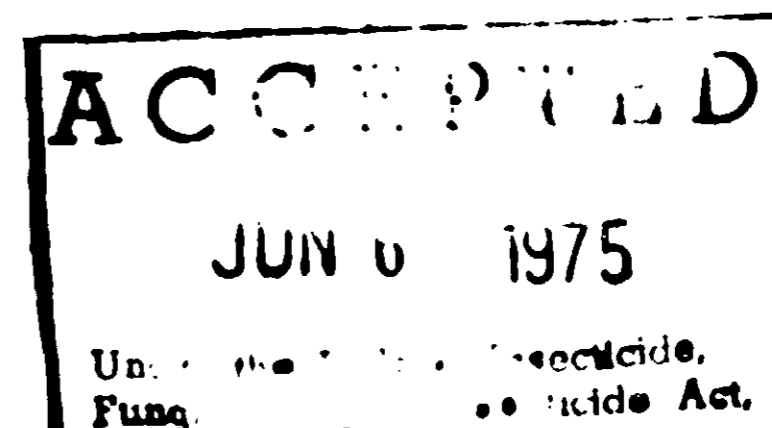
COMPATIBILITY: Proxol 80 SP may be applied with most commonly used insecticides. Do not mix with alkaline materials such as lime and lime sulfur.

DIRECTIONS FOR USE

IMPORTANT: Read these entire Directions and Conditions of Sale, including the Warranty and Disclaimer of Warranties, and Limitation of Liability provisions, before using Proxol 80 SP.

Proxol insecticide offers the unique advantage of not significantly affecting beneficial insects (parasites, predators, and pollinators) especially when applied at the minimum recommended rates per acre. Thus, Proxol supplements the natural control factors, instead of destroying them. This advantage is lost when Proxol is used in conjunction with parathion or other non-selective insecticides. Accordingly, for most effective and most economical control, Proxol should not be used in conjunction with or alternated in a spray schedule with pesticides destroying parasites, predators, and other beneficial insects. This applies to alfalfa and cotton in particular. While Proxol is not recommended for the control of aphids, mites, and cabbage looper, some suppression of these pests may result from recommended dosages.

MIXING: Proxol 80 SP dissolves readily in water and is suitable for use in all power-operated ground sprayers and aircraft sprayers. To dis-



solve in water, pour the required amount of **Proxol 80 SP** into full amount of water and then agitate. Use immediately after mixing. It is recommended that **Proxol 80 SP** be used in sprayers equipped with 50 mesh screens. If 100 mesh screens are used, some screen clogging may occur.

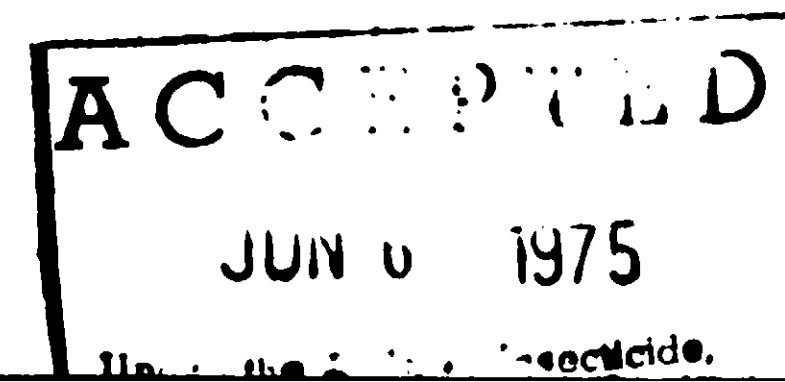
DOSAGE: Use specified dosage of **Proxol 80 SP** in the amount of water necessary to give complete coverage of foliage. The type of equipment

used will determine the concentration required.

SPRAYING: Complete coverage and thorough application are essential for most effective results. Schedule applications in accordance with local conditions. Consult your State Agricultural Extension Service or Experiment Station for specific timing of applications in your area. **NOTE: DO NOT ALLOW PROXOL SPRAY TO DRIFT ONTO SORGHUM. TO DO SO MAY CAUSE BURNING OF THE SORGHUM OR MILO.**

RECOMMENDED APPLICATIONS

| Crop | Insect | Ounces Proxol 80 SP | Remarks |
|---|---------------------------------|------------------------|--|
| FIELD CROPS | | | |
| Alfalfa | Alfalfa caterpillar | 7½ to 10 | Apply specified dosage per acre using sufficient water for complete coverage but not less than 1 gallon per acre. Three applications may be made per cutting with the last application up to the day of cutting. |
| Clover (including mixed stands with grasses) | Alfalfa webworm | 5 to 20 | |
| | Western yellow-striped armyworm | 10 | |
| | Beet armyworm | | |
| | Leafhoppers | | |
| | Variegated cutworm | 10 to 20 | |
| | Armyworm | | |
| | Alfalfa plant bug | | |
| | Lygus bugs | | |
| | Stink bugs | | |
| | Tarnished plant bug | 20 | |
| Barley | Armyworms | | Apply specified dosage per acre using sufficient water for complete coverage but not less than 1 gallon per acre. Three applications may be made per season but not within 21 days of harvest. |
| Flax | Beet webworm | | |
| Oats | Variegated cutworm | 10 to 20 | |
| Wheat | Bertha armyworm | | |
| | Diamondback moth | 20 | |
| NOTE: Applications may be made without removal of grazing livestock. | | | |



| Crop | Insect | Ounces Proxol 80 SP | Remarks | |
|-----------------------------|---------------------------------|---------------------|---|--|
| FIELD CROPS (contd) | | | | |
| Corn | Armyworms | 10 to 20 | Apply specified dosage per acre in sufficient water for complete coverage but not less than 1 gallon per acre. Three applications may be made per season. For early application when plants are 3 to 12 inches high, direct the spray to the lower portions of plants and to the soil around the base of the plants. Later applications may be made as full coverage spray up to day of harvest | |
| | Cutworms | | | |
| Cotton | Cotton fleahopper | 5 to 20 | Apply specified dosage per acre using sufficient water for complete coverage but not less than 1 gallon per acre. Do not pasture treated fields within 14 days of application. Do not apply within 7 days of picking. Proxol application may occasionally cause marginal leaf burn | |
| | Cotton leafworm | 10 to 20 | | |
| | Darkling ground beetle | | | |
| | Western yellow-striped armyworm | | | |
| | Beet armyworm | | | |
| | Southern garden leathopper | 20 | | NOTE: For control of light to moderate infestation of cotton fleahoppers use 5 ounces of Proxol 80 SP per acre. Higher rates may be required if heavy infestations or migrations occur |
| | Black fleahopper complex | 20 to 30 | | |
| | Cotton leaf perforator | | | |
| | Leaf roller | 30 | | |
| | Lygus bugs | | | |
| Stink bugs | | | | |
| Salt-marsh caterpillar | | | | |

| Crop | Insect | Ounces Proxol 80 SP | Remarks |
|--|-----------------------|---------------------|--|
| FIELD CROPS (contd) | | | |
| Grasses (including rangeland and pastures) | Leathoppers | 10 to 20 | Apply specified dosage per acre using sufficient water for complete coverage but not less than 1 gallon per acre. Three applications may be made per cutting with the last application up to the day of cutting. Do not apply more than 3 times per season if crop is not cut for hay |
| | Armyworm | 20 | |
| | Fall armyworm | | |
| | Plant bugs | | |
| NOTE: Applications may be made without removal of grazing livestock | | | |
| Safflower | Armyworms | 20 to 30 | Apply specified dosage per acre in each of two applications using sufficient water for complete coverage but not less than 1 gallon per acre. Do not apply more than twice per year or later than bloom stage. Make first application approximately 2 weeks prior to bloom—second application at onset of bloom |
| | Lygus bugs | | |
| | Thrips | | |
| | Variegated cutworm | | |
| Sugar beets | Beet webworm | 10 to 20 | Apply specified dosage per acre using sufficient water for complete coverage but not less than 1 gallon per acre. Repeat as necessary. Do not apply within 14 days of harvest |
| | Variegated cutworm | | |
| | Dipterous leaf miners | 20 | |
| | Alfalfa webworm | 20 to 30 | |
| | Beet armyworm | | |
| Salt-marsh caterpillar | 30 | | |

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Under the Federal Insecticide, Fungicide, and Plant Disease Act

| Crop | Insect | Ounces Proxol 80 SP | Remarks |
|-----------------------------|--|------------------------|---|
| FIELD CROPS (Contd) | | | |
| Tobacco | Budworm Hornworm | 20 | Apply specified dosage per acre using sufficient water for complete coverage but not less than 1 gallon per acre. For budworm control make application directly into bud. Repeat as necessary. Do not treat within 3 days of harvest. |
| | Green June beetle larvae | 10 | Apply specified dosage in 100 gallons of water per 100 square yards to uprooted areas of plant beds |
| SEED FIELD CROPS | | | |
| Alfalfa Clover | Armyworms Lygus bugs Stink bugs Variegated cutworm | 20 to 30 | Apply specified dosage per acre using sufficient water for complete coverage but not less than 1 gallon per acre. Repeat as necessary up to 7 days before harvest. Chaff from alfalfa and clover seed crop may be used for feed or forage, however, do not cut green crop for these purposes. Do not pasture or use treated soybeans for feed, food forage or oil purposes |
| Soybeans | Armyworms Dipterous leaf miners Lygus bugs Stink bugs Variegated cutworm | | |
| FRUIT | | | |
| Citrus (California only) | Fruit tree leafroller Omnivorous leafroller | 40 | Apply specified dosage per acre in ground equipment using 200 to 500 gallons of water for good coverage. Up to three applications may be made per season. Do not apply within 21 days of harvest |
| | Avocado leafroller Orange Tortrix Citrus cutworm Citrus looper | 80 | |

| Crop | Insect | Ounces Proxol 80 SP | Remarks |
|---|---|------------------------|---|
| VEGETABLES | | | |
| Beans (dry and snap) | Western bean cutworm | 10 to 20 | Apply specified dosage per acre using sufficient water for complete coverage but not less than 1 gallon per acre. Repeat as necessary. Do not apply within 14 days of harvest |
| | Armyworms Dipterous leaf miners Lygus bugs Mexican bean beetle Stink bugs Variegated cutworm | 20 to 30 | |
| Lima beans | Western bean cutworm | 10 to 20 | Apply specified dosage per acre using sufficient water for complete coverage but not less than 1 gallon per acre. Up to five applications may be made per season. Do not apply within 3 days of harvest |
| | Armyworms Dipterous leaf miners Lygus bugs Mexican bean beetle Stink bugs Variegated cutworm | 20 to 30 | |
| Cowpeas (Southern peas, Black-eyed peas, Crowder peas) | Armyworms Dipterous leaf miners Imported cabbageworm Lygus bugs Mexican bean beetle Stink bugs Variegated cutworm | 20 to 30 | Apply specified dosage per acre using sufficient water for complete coverage but not less than 1 gallon per acre. Do not apply more than twice per season nor within 14 days of harvest |

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 Under the... insecticide.

| Crop | Insect | Ounces Proxol 80 SP | Remarks |
|---------------------------|---------------------------------|---------------------|--|
| VEGETABLES (contd) | | | |
| Brussels sprouts | Western yellow striped armyworm | 10 | Apply specified dosage per acre using sufficient water for complete coverage but not less than 1 gallon per acre. Repeat as necessary. Do not apply within 21 days of harvest. |
| Cabbage | Imported cabbageworm | 10 to 20 | |
| Cauliflower | Variegated cutworm | 10 to 20 | |
| | Diamondback moth | 20 | |
| Carrots | Western yellow striped armyworm | 10 | Apply specified dosage per acre using sufficient water for complete coverage but not less than 1 gallon per acre. Repeat as necessary. Do not apply within 28 days of harvest. Do not use tops for food or feed. |
| | Imported cabbageworm | 10 to 20 | |
| | Variegated cutworm | 10 to 20 | |
| | Diamondback moth | 20 | |
| | Dipterous leaf miners | 20 | |
| | Beet armyworm | 20 to 30 | |
| | Lygus bugs | 20 to 30 | |
| | Salt-marsh caterpillar | 30 | |
| Corn | Thrips | | Apply specified dosage per acre using sufficient water for complete coverage but not less than 1 gallon per acre. Repeat as necessary until heads begin to form. Do not apply within 28 days of harvest. |
| Lettuce | Variegated cutworm | 10 to 20 | |
| | Armyworms | | |
| | Beet Webworm | | |
| | Diamondback moth | | |
| | Dipterous leaf miners | | |
| | Salt-marsh caterpillar | 20 | |

| Crop | Insect | Ounces Proxol 80 SP | Remarks |
|---------------------------|---|------------------------------------|---|
| VEGETABLES (contd) | | | |
| Peppers | Dipterous leaf miners Pepper maggot Serpentine leaf miners | 20 | Apply specified dosage per acre using sufficient water for complete coverage but not less than 1 gallon per acre. Repeat as necessary. Do not apply within 21 days of harvest. |
| Pumpkin | Variegated cutworm Squash bug | 10 to 20 20 | Apply specified dosage per acre in sufficient water for complete coverage but not less than 1 gallon per acre. Apply only once per season and not within 14 days of harvest. |
| Table beets | Variegated cutworm Alfalfa webworm Beet webworm Dipterous leaf miners Salt-marsh caterpillar Beet armyworm Lygus bugs | 10 to 20 20 20 to 30 | Apply specified dosage per acre using sufficient water for complete coverage but not less than 1 gallon per acre. Repeat as necessary. Do not apply within 28 days of harvest. Do not eat tops. |
| Tomatoes | Serpentine leaf miners Tomato hornworms Dipterous leaf miners | 20 | Apply specified dosage per acre using sufficient water for complete coverage but not less than 1 gallon per acre. Repeat as necessary. Do not apply within 21 days of harvest. |

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| Crop | Insect | Ounces | | Remarks |
|---|-------------------------|--------------|---|---------|
| | | Proxol 80 SP | | |
| ORNAMENTALS Flowers Shrubs and Trees | Nantucket pine tip moth | 2 | Mix specified dosage in 10 gallons of water and spray plants until they are thoroughly wet. Repeat as necessary. CAUTION: Phytotoxicity has occurred on certain varieties of carnations and zinnias. When large plantings of these flowers are to be sprayed for the first time, treat only a few plants and observe for 4 to 5 days before spraying the entire planting. | |
| | Zimmerman pine moth | | | |
| | Armyworms | | | |
| | Bagworms | | | |
| | Climbing cutworms | | | |
| | Dipterous leaf miners | | | |
| | Lygus bugs | | | |
| | Stink bugs | | | |
| | Tarnished plant bug | | | |
| | Tobacco budworm | | | |
| Narcissus | Narcissus bulb fly | 2 to 3 | Apply specified dosage in 10 gallons of water as a drench per 100 feet of row. Direct stream to base of plants at beginning of adult fly activity (early May to June). Repeat treatment annually. | |

RECOMMENDED APPLICATIONS - TEES, GREENS, FAIRWAYS, LAWNS AND OTHER FINE TURF

| Insect | Area | Rate | | Remarks |
|---------------------------|--------------|-------------------|--|---------|
| | | Amount | | |
| Cutworms | 1,000 sq ft | 2 1/2 to 3 3/4 oz | Apply by means of any commercial power ground sprayer. Do not use Proxol 80 SP in hose proportioners. For greens or other small areas - Mix specified amount of Proxol 80 SP in 5 to 10 gallons of water and apply uniformly to 1,000 sq ft. For fairways and larger areas - Apply specified amount using sufficient water for complete coverage but not less than 10 gallons per acre. For best results, mow the turf and rake dead grass from damaged spots, water the turf and allow to dry before spraying. Do not water again until necessary. Apply Proxol 80 SP when insect populations reach levels sufficient to warrant control measures. | |
| Sod webworms (lawn moths) | 5,000 sq ft | 3/4 lb | | |
| | 10,000 sq ft | 1 1/2 lb | | |
| | 20,000 sq ft | 3 lb | | |
| Armyworms | 30,000 sq ft | 4 1/2 lb | | |
| | 40,000 sq ft | 6 lb | | |
| | 1 acre | 7 lb | | |
| White grubs | 1,000 sq ft | 3 3/4 oz | | |
| | | | | |
| | | | | |

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RECOMMENDED APPLICATIONS
PREMISE SPRAY FOR FLY CONTROL

For Fly Control in and Around Farm Buildings (Except Dairy Barns and Poultry Houses)

Mix 5 pounds of **Proxol 80 SP** in 40 gallons of water (equivalent to 5 level tablespoons per gallon). Thoroughly wet all areas to be treated by spraying 1 gallon per 500 square feet of surface area or to the point of run-off. Apply to floors, walls, ceiling around windows, doors and other areas where flies congregate. Also spray stock pens (after removal of animals), garbage areas and other locations where refuse has collected. Repeat applications every 1 to 2 weeks or as fly populations increase. For longer residual control, add 1 pound of sugar to each gallon of spray solution.

Restrictions (Premise Spray)

Remove animals before spraying barn. Do not treat portions of buildings where poultry feed. Direct application to walls, floors, or other surfaces previously treated with lime, whitewash, or other alkaline materials may be ineffective. Do not contaminate feed, water or milk-handling equipment.

| Rate/Acre Ounces Proxol 80 SP | Pounds of Proxol 80 SP to Treat | | |
|-------------------------------------|---------------------------------|----------|----------|
| | 5 Acres | 10 Acres | 15 Acres |
| 5 | 1 1/2 | 3 1/8 | 4 2/3 |
| 7 1/2 | 2 1/2 | 4 1/3 | 7 |
| 8 | 2 1/2 | 5 | 7 1/2 |
| 10 | 3 1/8 | 6 1/4 | 9 3/8 |
| 16 | 5 | 10 | 15 |
| 20 | 6 1/4 | 12 1/2 | 18 1/4 |
| 30 | 9 3/8 | 18 1/4 | 28 1/2 |

NOTE: When using a more convenient whole number or fraction of pounds of formulated material do not exceed maximum registered rate.

IMPORTANT-READ BEFORE USE

By using this product user accepts the following conditions, warranty, disclaimer of warranties and limitations of liability.

CONDITIONS:

The directions for use of this product are believed to be adequate and should be followed carefully. However, because of extreme weather and soil conditions, manner of use and other factors beyond TUCO's control, it is impossible for TUCO to eliminate all risks associated with use of this product. As a result, crop injury or ineffectiveness is always possible.

WARRANTY AND DISCLAIMER OF WARRANTIES:

TUCO warrants that this material conforms to the chemical description on the label and is reasonably fit for use under the directions and conditions on this label. **TUCO AND SELLER MAKE NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS, MERCHANTABILITY OR OTHERWISE.**

LIMITATIONS OF LIABILITY:

The liability of TUCO or Seller for damages arising from the use of this product is limited to the replacement cost of the product used and shall not include any consequential damages such as loss of profits or other values.

NO CHANGES AUTHORIZED:

No one other than an authorized agent of TUCO is authorized to make any other warranty or change the above conditions, disclaimer or limitations and then only in writing and with a specific reference to this label.

EPA Reg No. 1023-51-AA

Manufactured for

TUCO • Division of The Upjohn Company • Kalamazoo, Michigan 49001, U.S.A.

Mar. 1975

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