

01/16/87

MAR 1987

*Handwritten initials and signature*

Nor-Am Chemical Company  
3509 Silverside Road  
P.O. Box 7495  
Wilmington, DE 19803

Gentlemen:

Subject: Proxol 80 SP Insecticide  
EPA Registration No. 45639-123  
Your Application Dated December 5, 1986

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, is acceptable subject to the comments listed below. Five copies of the finished labeling must be submitted.

Revise the Reentry Statements for farm products to the following:

REENTRY STATEMENTS

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 reenter treated fields within 24 hours unless protective clothing is worn. 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.

(The following may appear on supplemental labeling accompanying the product)

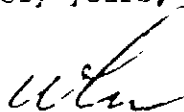
Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. Oral warnings should include those statements found under the label heading "Precautionary Statements" and "Reentry Statements" included on this label. When oral warnings are given, warnings shall be given in a language

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SYMBOL								
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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: WARNING, area treated with PROXOL 80% Soluble Powder on (date of application). Do not reenter treated fields within 24 hours unless protective clothing is worn. 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. If swallowed, vomiting should be induced (See Precautionary Statements on label).

Sincerely yours,



William H. Miller  
Product Manager (16)  
Insecticide-Rodenticide Branch  
Registration Division (TS-767C)

duff

# SPECIMEN LABEL

ACCEPTED  
with 45639-123  
in DE. 12. 1983

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Under 2...  
Fungicide...  
as...  
registered under EPA Reg. No. 45639-123

# PROXOL<sup>®</sup> 80SP

## INSECTICIDE

For Farm Crops and Fine Turf Areas

Not for Sale or Use in the State of Maine

### ACTIVE INGREDIENT

Dimethyl(2,2,2-trichloro-1-hydroxyethyl)phosphonate

80%

### INERT INGREDIENTS

20%

Total 100%

EPA Reg. No. 45639-123

**PRECAUCION AL USUARIO:** Si usted no lee ingles, no use este producto hasta que el etiqueta haya sido explicado ampliamente.

**KEEP OUT OF REACH OF CHILDREN**

**WARNING - AVISO**

## STATEMENT OF PRACTICAL TREATMENT

PROLONGED EXPOSURE WILL RESULT IN CHOLINESTERASE DEPRESSION.

IF SWALLOWED: INDUCE VOMITING AND GET MEDICAL ATTENTION IMMEDIATELY

IF IN EYES: FLUSH WITH WATER FOR AT LEAST 15 MINUTES GET MEDICAL ATTENTION IMMEDIATELY

IF ON SKIN: REMOVE CONTAMINATED CLOTHING WASH SKIN WITH SOAP AND WATER GET MEDICAL ATTENTION IMMEDIATELY

NOTE TO PHYSICIAN: ATROPINE SULFATE IS ANTI-DOTAL 2 PAM IS ALSO ANTI-DOTAL AND MAY BE ADMINISTERED IN CONJUNCTION WITH ATROPINE

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENT.

**NOR-AM**  
NORAM CHEMICAL COMPANY

3509 Silverside Road, P.O. Box 7495  
Wilmington, DE 19803

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# PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS WARNING

May be fatal if swallowed. Do not get in eyes, on skin, or on clothing. Avoid breathing mist or dust. Wash thoroughly with soap and water after handling. Wash contaminated clothing with soap and hot water before reuse.

## PRECAUTIONS

Use with adequate ventilation. 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. 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.

**REENTRY STATEMENTS:** Refer to the Recommended Applications section of this label for applicable reentry interval.

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. 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.

**ENVIRONMENTAL HAZARDS:** This product is toxic to fish and wildlife and is extremely toxic to aquatic invertebrates. Do not apply to water or wetlands. Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. 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.

## STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

**STORAGE:** Store in original container and keep closed. Store in a cool, dry place.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER DISPOSAL:** Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

## DIRECTIONS FOR USE

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

**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. For agricultural use and for sale to service persons. Do not store in or around the house. 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.

**LAWN CARE INDUSTRY:** For the best results with Proxol 80 SP against white grubs (May beetle, European chafer, Asiatic Garden beetle, Japanese beetle, Northern Masked chafer, Oriental beetle), it is recommended that post treatment watering-in take place immediately after treatment. Post treatment watering-in may also be utilized up to 24 hours after application. Consideration must be given to species of grubs, and the level of infestation before irrigation treatment is performed.

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

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

## RECOMMENDED APPLICATIONS

**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.** Spray droplets from applications of Proxol 80SP may cause spotting of painted finishes on aluminum and steel siding, automobiles, and tractors. Do not allow spray droplets to contact metal painted surfaces. If accidental exposure of the painted surface should be thoroughly washed immediately after exposure.

# Turf and Ornamentals

**REENTRY STATEMENT:** Do not enter treated areas without protective clothing until sprays have dried. Refer to the preceding "Precautions" section of this label for additional details.

← Bold type

← For Tees, Greens, Fairways, Lawns and Other Fine Turf:

Insect	Rate		Remarks
	Area	Amount	
Cutworms	1,000 sq. ft.	1½ to 3¾ oz.	Apply by means of any commercial power ground sprayer. Do not use Proxol 80 SP in hose proportioners.  <b>For greens or other small areas</b> —Mix specified amount of Proxol 80 SP in 5 to 10 gallons of water and apply uniformly to 1,000 sq. ft.
Sod webworms	5,000 sq. ft.	½ lb	
(lawn moths)	10,000 sq. ft.	1 lb	
	20,000 sq. ft.	2 lb	
Armyworms	30,000 sq. ft.	3 lb	
	40,000 sq. ft.	4 lb	

**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.

White grubs	1,000 sq. ft.	3¾ oz.	Mix specified amount of Proxol 80 SP in 15 to 30 gallons of water and apply uniformly to 1,000 sq. ft. of turf. Thoroughly irrigate turf immediately after application.
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**LAWN CARE INDUSTRY:** For the best results with Proxol 80 SP against White grubs (May beetle, European chafer, Asiatic Garden beetle, Japanese beetle, Northern Masked chafer, Oriental beetle), it is recommended that post watering-in take place immediately after treatment. Post treatment watering-in may be utilized up to 24 hours after application. Consideration must be given to species of grubs, and the level of infestation, before irrigation treatment is performed.

After the grubs have been identified, count the number of grubs per square foot to ascertain timing of the irrigation treatment. The watering-in schedule is shown below:

Type of White Grub	White Grub Counts/Sq. Ft.	Watering-in Treatment:
European chafer, Asiatic Garden beetle,	No more than 59	Immediate
Japanese beetle, Northern Masked chafer, Oriental beetle (one-year cycle)	No more than 23	Within 24 hours
May beetle (three-year cycle)	No more than 29	Immediate
	No more than 11	Within 24 hours

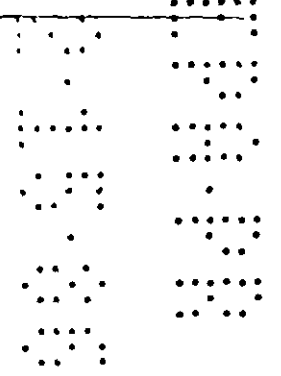
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← For Tees, Greens, Fairways, Lawns and Other Fine Turf (continued):

Insect	Rate		Remarks
	Area	Amount	
			Higher grub counts than listed of either species, may require repeat treatments (late April to early May or early August to September) (late April to early May . . . late April to early May) to reduce grub populations below threshold levels.
			Threshold levels of grubs, dictating control, are 6-8 or more one-year-cycle larvae (Japanese beetle, Masked chafer, etc. . . .) per square foot, or 3 or more, three-year-cycle grubs (May beetle) per square foot.
European Crane Fly larvae	1,000 sq. ft.	3 1/4 oz.	Applications should be made when damage is first noticed in the lawn or other fine turf area. For best results, apply specified amount of Proxol 80 SP in 15 to 30 gallons of water and apply uniformly to 1,000 sq. ft. of turf. Crane fly larvae are usually located in the top one inch of soil and thatch. If necessary, irrigate turf or lawn after application to move Proxol 80 SP into the zone of crane fly larvae infestation.

For Ornamentals: ← adjust type size

ORNAMENTAL	Insect	Ounces Proxol 80 SP	Remarks
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.
	Zimmerman pine moth		
	Armyworms		
	Bagworms		
	Climbing cutworms		
	Dipterous leaf miners		
	Lygus bugs		
	Stink bugs		
	Tarnished plant bug		
	Tobacco budworm		
	Webworms	2 to 3	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. Injury from spray droplets may occur on leaves of certain trees.
Narcissus	Narcissus bulb fly	2	Apply specified dosage in 10 gallons of water as a drench per 100 feet of row. Direct steam to base of plants at beginning of adult fly activity (early May to June). Repeat treatment annually.



# Farm Crops:

## REENTRY STATEMENT:

Do not reenter treated areas within 24 hours unless protective clothing is worn. Refer to the preceding Precautions section of this label for additional details.

### For Farm Crops:

#### FIELD CROPS

Alfalfa  
Barley  
Clover  
Corn  
Cotton  
Flax  
Grasses  
(including  
rangeland  
and pastures)

Oats  
Safflower  
Sugar beets  
Tobacco  
Wheat

#### SEED FIELD CROPS

Alfalfa  
Clover  
Soybeans

#### FRUIT

Citrus  
(California only)

#### VEGETABLES

Beans (dry and succulent)  
Brussels sprouts  
Cabbage  
Carrots  
Cauliflower  
Collards

Cowpeas  
(Southern peas,  
Blackeyed peas,  
Crowder peas)  
Lettuce  
Lima beans  
Peppers  
Pumpkin  
Table beets  
Tomatoes

Crop	Insect	Ounces Proxol 80 SP	Remarks
<b>FIELD CROPS</b>			
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		
	Variiegated 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	Variiegated cutworm	10 to 20	
Wheat	Bertha armyworm		
	Diamondback moth	20	
NOTE: Applications may be made without removal of grazing livestock.			
Corn Field, Sweet, and Popcorn	Armyworms		For early application when plants are 3 to 12 inches high, direct a band spray 10 to 12 inches wide, toward the soil, over the tops of the plants. Apply specified dosages per acre in sufficient water for complete coverage but not less than 1 gallon per acre. Three applications may be made per season. Later applications may be made as full coverage spray up to day of harvest.
	Cutworms	10 to 20	

Crop	Insect	Ounces Proxol 80 SP	Remarks
<b>FIELD CROPS</b>			
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. 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.
	Cotton leafworm		
	Darkling ground beetle		
	Western yellow-striped armyworm	10 to 20	
	Beet armyworm		
	Southern garden leafhopper	20	
	Black fleahopper complex		
	Cotton leaf perforator		
	Leaf roller, Lygus bugs		
	Stink bugs	20 to 30	
	Salt-marsh caterpillar	30	
Grasses (including rangeland and pastures)	Leafhoppers	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. NOTE: Applications may be made without removal of grazing livestock.
	Armyworm		
	Fall armyworm		
	Plant bugs	20	
Safflower	Armyworms		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	20 to 30	
Sugar beets	Beet webworm		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	10 to 20	
	Dipterous leaf miners	20	
	Alfalfa webworm		
	Beet armyworm	20 to 30	
	Salt-marsh caterpillar	30	
Tobacco	Budworm		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.
	Hornworm	20	
	Green June beetle larvae	10	
	Black cutworm	20	Apply specified dosage per acre. Application may be made at transplanting or when cutworm damage is observed in the field. For best results, use 25 to 50 gallons of water per acre on a 12 to 14 inch band and spray the entire plant and soil around the plant. Treat in early evening for best results, since cutworms are most active at night.



Crop	Insect	Ounces Proxol 80 SP	Remarks
Tobacco			Enide* 90W at 4.4 to 6.6 pounds per acre may be applied over the top after transplanting in combination with Proxol. Enide may be applied from transplanting to 7 days after transplanting. When Enide 90W is applied more than 2 days after transplanting, tillage is required immediately before or at time of application to destroy germinating weed seeds.
<b>SEED FIELD CROPS</b>			
Alfalfa	Armyworms		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.
Clover	Lygus bugs Stink bugs		
	Variegated cutworm	20 to 30	
Soybeans	Armyworms		
	Dipterous Leaf Miners		
	Lygus bugs Stink bugs Variegated cutworm		
<b>FRUIT</b>			
Blueberries	Spanworm Gypsy moth	16 20	Apply specified dosage per acre using sufficient water for complete coverage, but no less than 1 gallon per acre. Make a prebloom application as soon as insects appear. A second application may be made during bloom but not less than 7 days after first application. Do not apply after bloom stage.
Citrus (California only)	Fruit tree leafroller Omnivorous leafroller Black Swallow tail Avocado leafroller Orange Tortrix Citrus cutworm Citrus looper	40     80	Apply specified dosage per acre in sufficient water for complete coverage, but not less than 1 gallon per acre. One application may be made by aircraft up to 7 days before harvest. Two applications with ground equipment may be made in addition to one aerial application. However, if more than one application is made do not apply last application within 21 days of harvest.
<b>VEGETABLES</b>			
Beans (dry and succulent)*	Western bean cutworm Armyworms Dipterous leaf miners Lygus bugs Mexican bean beetle Stink bugs Variegated cutworm	10 to 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 14 days of harvest. *Identified as <i>Cicer</i> sp. (including chickpeas and garbanzo beans); <i>Phaseolus</i> sp. (including kidney beans, lima beans, mung beans, navy beans, pinto beans, snap beans, and wax beans); <i>Vicia</i> sp. (including broad beans, fava beans); <i>Vigna</i> sp. (including asparagus beans).
Lima beans	Western bean cutworm Armyworms Dipterous leaf miners Lygus bugs Mexican bean beetle Stink bugs Variegated cutworm	10 to 20     20 to 30	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 14 days of harvest.

Crop	Insect	Ounces Proxol 80 SP	Remarks
<b>VEGETABLES</b>	Armyworms		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
Cowpeas (Southern peas, Blackeyed peas, Crowder peas)	Dipterous leaf miners Imported cabbageworm Lygus bugs, Mexican bean beetle, Stink bugs, Variegated cutworm	20 to 30	
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 Cauliflower	Imported cabbageworm Variegated cutworm Diamondback moth	10 to 20 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		
	Variegated cutworm	10 to 20	
	Diamondback moth		
	Dipterous leaf miners	20	
	Beet armyworm		
Collards Lettuce	Lygus bugs	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 until heads begin to form. Do not apply within 28 days of harvest.
	Salt-marsh caterpillar	30	
	Thrips		
	Variegated cutworm	10 to 20	
	Armyworms		
	Beet Webworm		
Peppers	Diamondback moth		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.
	Dipterous leaf miners		
	Pepper maggot		
	Serpentine leaf miners	20	
Pumpkin	Dipterous leaf miners		Apply specified dosage per acre using sufficient water for complete coverage but not less than 1 gallon per acre. Do not apply more than three times per season nor within 3 days of harvest.
	Squash bug	20	
Table beets	Variegated 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 28 days of harvest. Do not eat tops.
	Alfalfa webworm		
	Beet webworm		
	Dipterous leaf miners		
	Salt-marsh caterpillar	20	
	Beet armyworms		
Tomatoes	Lygus bugs	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 21 days of harvest.
	Serpentine leaf miners		
	Tomato hornworms Dipterous leaf miners	20	