

PM 14 4 639-123

Label 1580



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460**

DEC 22 1993

**Richard R. Stevens
NOR-AM CHEMICAL COMPANY
3509 Silverside Road
Wilmington, DE 19803**

**OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES**

**Subject: Label Amendment Submission of 06/03/93 in Response to PR Notice 93-7
EPA Reg. No. 45639-123
PROXOL 80 SP**

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted subject to the comments reflected on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

WHAT THIS ACCEPTANCE MEANS:

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the Worker Protection Standard (WPS) labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have not been reviewed or accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

WHAT YOU NEED TO DO NEXT:

By the next label printing make all the specified changes to your labeling. Send to EPA one (1) copy of the final printed labeling:

- **BEFORE** selling or distributing any product bearing the final printed labeling
- AND**
- **WITHIN** one year from date of this acceptance.



Recycled/Recyclable
Printed with Soy/Candis Ink on paper that
contains at least 50% recycled fiber

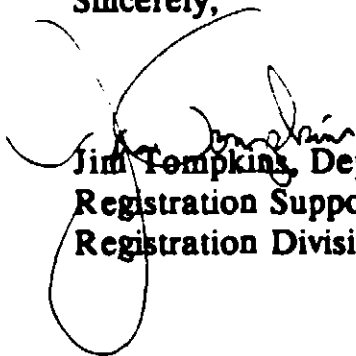
Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs (7505C)
U.S. Environmental Protection Agency
401 M Street, SW
Washington, D.C. 20460-0001

Hand or courier deliveries of final printed labeling may be made to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs
Room 266A, Crystal Mall 2
1921 Jefferson Davis Highway
Arlington, VA 22202

Sincerely,



Jim Tompkins, Deputy Chief
Registration Support Branch
Registration Division (7505W)

Attachment

SPECIMEN LABEL

ACCEPTED
with COMMENTS
In EPA Letter Dated
DEC 22 1993

BEST AVAILABLE COPY

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
45639-123

Proxol[®] 80SP

INSECTICIDE

For Farm Crops and Fine Turf Areas

ACTIVE INGREDIENT:

Dimethyl 2,2,4-trimethyl-4-pyridyl phosphorothioate

INERT INGREDIENTS:

TOTAL

EPA Reg. No. 45639-123

KEEP OUT OF REACH OF CHILDREN WARNING — AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.
(If you do not understand this label, find someone to explain it to you in detail.)

STATEMENT OF PRACTICAL TREATMENT

THIS PRODUCT IS AN ORGANOPHOSPHATE

IF SWALLOWED

IF INHALED

IF IN EYES

IF ON SKIN

NOTE TO PHYSICIAN

FOR CHEMICAL EMERGENCY—Spill, Leak, Fire, Exposure, or Accident
CALL (800) 424-9300 DAY OR NIGHT

NOR-AM

NET CONTENTS:

4-11-10

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS
AND DOMESTIC ANIMALS
WARNING**

Causes substantial but temporary eye injury. May be fatal if swallowed or inhaled. Harmful if absorbed through the skin. Do not get in eyes or on clothing. Do not breathe dust. Avoid contact with skin.

PRECAUTIONS

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 THROUGH ANY TYPE OF IRRIGATION EQUIPMENT.

REENTRY STATEMENT: Refer to the Recommended Applications section Agricultural Use Requirements or Non-Agricultural Use Requirements boxes of this label for applicable reentry interval.

PERSONAL PROTECTIVE EQUIPMENT

Applicators and Other handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks
- Protective eyewear
- Chemical-resistant headgear for overhead exposure
- Chemical-resistant apron, when cleaning equipment, mixing, or loading
- For exposure outdoors, dust/mist filtering respirator (MSHA/NIOSH approved number prefix TC-21C)
- For exposure in enclosed areas, a respirator with either an organic vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G)

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

ENGINEERING CONTROLS STATEMENT

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standards (WPS) for agricultural pesticides (40 CFR 170.240 (d) (4-6)), the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS

Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

ENVIRONMENTAL HAZARDS: This product is toxic to fish and wildlife and is extremely toxic to aquatic invertebrates. For terrestrial uses, do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. 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 when disposing of equipment washwaters.

DIRECTIONS FOR USE

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

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency in your State responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment and restricted-entry interval.

The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls
- Waterproof gloves
- Shoes plus socks
- Protective eyewear

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Keep unprotected persons, children, and pets off treated areas until sprays have dried.

STORAGE AND DISPOSAL

DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE OR DISPOSAL.

STORAGE: Store in a cool, dry place (minimum 0° F, 30 day average not to exceed 100° F). Store in original container and keep closed.

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

DO NOT REUSE THIS CONTAINER

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 nonselective 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 (Black turf-grass Ateneus, May beetle, European chafer, Asiatic Garden beetle, Japanese beetle, Northern Masked chafer, Oriental beetle), it is recommended that watering-in take place after application in order to improve efficacy. The applicator should water or leave written instructions for the homeowner or caretaker to water. 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.

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

DOSEAGE: 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 80 SP may cause spotting of paint finishes on aluminum and steel siding, automobiles, trucks, and tractors. Do not allow spray droplets to contact metal painted surfaces. If accidental exposure does occur, the painted surface should be thoroughly washed immediately after exposure.

TURF AND ORNAMENTALS

FOR TEES, GREENS, FAIRWAYS, LAWNS AND OTHER FINE TURF:

Insect	Rate		Remarks
	Area	Amount	
Cutworms	1,000 sq. ft.	1½ to 3¼ 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	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	
formly		40,000 sq. ft.	
White grubs	1,000 sq. ft.	3¼ 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. LAWN CARE INDUSTRY: For the best results with PROXOL 80 SP against White grubs (Black Turfgrass Ataenius, 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, but should not occur later than 24 hours after application. Consideration must be given to species of grubs, and the level of infestation, before irrigation treatment is performed.

FOR TEES, GREENS, FAIRWAYS, LAWNS AND OTHER FINE TURF

Insect	Rate		Remarks															
	Area	Amount																
			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:															
			<table border="1"> <thead> <tr> <th>Type of White Grub</th> <th>White Grub Counts/Sq. Ft.</th> <th>Watering-In Treatment</th> </tr> </thead> <tbody> <tr> <td>European chafer, Asiatic Garden beetle, Japanese beetle, Northern Masked chafer, Oriental beetle (one-year cycle)</td> <td>No more than 59</td> <td>Immediate</td> </tr> <tr> <td></td> <td>No more than 23</td> <td>Within 24 hours</td> </tr> <tr> <td>May beetle (three-year cycle)</td> <td>No more than 29</td> <td>Immediate</td> </tr> <tr> <td></td> <td>No more than 11</td> <td>Within 24 hours</td> </tr> </tbody> </table>	Type of White Grub	White Grub Counts/Sq. Ft.	Watering-In Treatment	European chafer, Asiatic Garden beetle, Japanese beetle, Northern Masked chafer, Oriental beetle (one-year cycle)	No more than 59	Immediate		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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			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. 3¼ 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:

Ornamental	Insect	Ounces PROXOL 80 SP	Remarks
	Nantucket pine tip moth Zimmerman pine moth	2	Mix specified dosage in 10 gallons of water and spray plants until they are thoroughly wet. Repeat as necessary.
Flowers Shrubs and Trees	Armyworms Beetworms Climbing cutworms Dipterous leaf miners Lygus bugs Stink bugs Tarnished plant bug Tobacco budworm Webworms	2 to 3	NOTE: 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 stream to base of plants at beginning of adult fly activity (early May to June). Repeat treatment annually.

FARM CROPS

REENTRY STATEMENTS: Do not reenter treated fields within 24 hours unless protective clothing is worn (See Agricultural Use Requirements section).

For Farm Crops:

FIELD CROPS	SEED FIELD CROPS	FRUIT	VEGETABLES
Alfalfa	Alfalfa	Blueberries	Pumpkin
Clover	Clover		Table beets
Corn	Soybeans		Tomatoes
Cotton			
Tobacco			

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	Alfalfa webworm	5 to 20	
(including mixed stands with grasses)	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	
Corn	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.
Field, Sweet, and Popcorn	Cutworms	10 to 20	
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	

FIELD CROPS

Crop	Insect	Ounces PROXOL 80 SP	Remarks
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.
	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.

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

Blueberries	Spanworm	16	Apply specified dosage per acre using sufficient water for complete coverage, but not 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.
	Gypsy moth	20	

VEGETABLES

Pumpkin	Variegated cutworm	10 to 20	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		
	Lygus bugs	20 to 30	

Crop	Insect	Ounces PROXOL 80 SP	Remarks
Tomatoes less	Serpentine leaf miners Tomato hornworms	20	Apply specified dosage per acre using sufficient water for complete coverage but not
	Dipterous leaf miners		than 1 gallon per acre. Repeat as necessary. Do not apply within 21 days of harvest.

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.

CONVERSION CHART

Rate/Acre Ounces PROXOL 80 SP	Pounds of PROXOL 80 SP to Treat:		
	5 Acres	10 Acres	15 Acres
5	1½	3¼	4¾
7½	2½	4¾	7
8	2½	5	7½
10	3¼	6¼	9¾
16	5	10	15
20	6¼	12½	18¾
30	9¾	18¾	28¼

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 or buyer 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 NOR-AM Chemical Company's control, it is impossible for NOR-AM to eliminate all risks associated with the use of this product. As a result, crop injury or ineffectiveness is always possible. All such risks shall be assumed by the user or buyer.

DISCLAIMER OF WARRANTIES: THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OR MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, WHICH EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL. No agent of NOR-AM Chemical Company is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. UNDER NO CIRCUMSTANCES SHALL NOR-AM CHEMICAL COMPANY BE LIABLE FOR ANY SPECIAL, INDIRECT, OR CONSEQUENTIAL DAMAGES RESULTING FROM USE OR HANDLING OF THIS PRODUCT.

LIMITATIONS OF LIABILITY: THE EXCLUSIVE REMEDY OF THE USER OR BUYER FOR ANY AND ALL LOSSES, INJURIES, OR DAMAGE RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER IN CONTRACT WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, SHALL NOT EXCEED THE PURCHASE PRICE PAID, OR AT NOR-AM'S ELECTION, THE REPLACEMENT OF PRODUCT.

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