

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Jun 21 1991

Dr. Richard D. Costlow  
Rohm and Haas Company  
Independence Mall West  
Philadelphia, PA 19105

3396596 / 300  
D164691 / 18

Dear Dr. Costlow:

Subject: Amended Labeling  
Nova 40W Agricultural Fungicide in Water Soluble Pouches  
EPA Registration No. 707-221  
Your Submission Dated May 10, 1991

The labeling referred to above, submitted in connection with registration under the Federal Insecticide Fungicide and Rodenticide Act, as amended, is acceptable. At the next label printing, change the first sentence under the Environmental Hazards Section to "Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark." A copy of the accepted label is enclosed.

Sincerely yours,

Susan T. Lewis  
Product Manager (21)  
Fungicide-Herbicide Branch  
Registration Division (H7505C)

Enclosure

H7505C:J.Fairfax:jf:6/13/91

CONCURRENCES							
SYMBOL							
SURNAME							
DATE							

JUN 21 1991

# NOVA

Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 707-821

ACTIVE INGREDIENT  
MYCLOBUTANIL  
a butyl-4-(4-chlorophenyl) 1H-1,2,4-triazole-1-propanamine . . . . . 40%  
INERT INGREDIENTS . . . . . 60%  
Total 100%



EPA Reg. No. 707-221  
Copyright 1991 Rohm and Haas Company

707-821



NOT FOR USE IN ALASKA, ARIZONA, CALIFORNIA, HAWAII, IDAHO, MONTANA, NEVADA, OREGON, UTAH, WASHINGTON, WYOMING, NOR FOR SALE OR USE IN MASSACHUSETTS OR SUFFOLK COUNTY, NEW YORK.

Notice: Before using this product, read the entire Precautionary Statements, Conditions of Sale and Warranty, Directions for Use, Use Restrictions and Storage and Disposal Instructions. If the Conditions of Sale and Warranty are not acceptable, return the product unopened within thirty days of purchase to the place of purchase.

### RE-ENTRY AND WORKER PROTECTION STATEMENTS

Do not enter treated areas without protective clothing until sprays have dried. Because certain states may require more restrictive re-entry intervals for various crops treated with this product, consult your State Department of Agriculture for further information. 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.

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 must be given if there is reason to believe that written warnings cannot be understood by workers. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Written warnings must include the following information:

#### WARNING

(Insert area or field description) treated with NOVA 40W fungicide on (insert date of application). Do not enter treated area without protective clothing until sprays have dried. In case of accidental exposure, call a doctor (physician), clinic or hospital immediately. Explain that the victim has been exposed to NOVA 40W fungicide and describe his condition. For further information see the "Statement of Practical Treatment."

Oral warnings must include the same information that is in the written warnings.

## KEEP OUT OF REACH OF CHILDREN WARNING AVISO

**Precaucion al Usuario:** Si usted no lee inglés, no use este producto hasta que la etiqueta haya sido explicada ampliamente.

### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Causes eye irritation. Harmful if swallowed, inhaled, or absorbed through the skin. Do not swallow, get in eyes, on skin or breathe spray mist. Wear goggles, mid-forearm to elbow-length chemical-resistant gloves, hat, long-sleeved shirt and long pants when mixing, loading and applying this product. Contaminated clothing must be laundered separately in hot water before using. Wash thoroughly after handling and before eating or smoking.

### STATEMENTS OF PRACTICAL TREATMENT

**IF IN EYES:** Flush eyes with a large amount of water for at least 15 minutes. Call a physician if irritation persists.

**IF INHALED:** Move victim to fresh air.

**IF ON SKIN:** Wash affected skin thoroughly with soap and water.

**IF SWALLOWED:** Dilute by giving two glasses of water to drink and call a physician. Never give anything by mouth to an unconscious person.

### ENVIRONMENTAL HAZARDS

Do not apply directly to water or wetlands. Do not contaminate water when disposing of equipment washwaters. Do not apply when weather conditions favor drift or runoff from areas treated.

### CONDITIONS OF SALE AND WARRANTY

Rohm and Haas warrants that the product conforms to its chemical description and is reasonably fit for the purpose stated on the label only when used in accordance with label directions under normal conditions of use. ROHM AND HAAS MAKES NO OTHER EXPRESS OR IMPLIED WARRANTIES EITHER OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE. Handling, storage and use of the product by Buyer or User are beyond the control of Rohm and Haas and Seller. Risks such as crop injury, ineffectiveness or other unintended consequences resulting from, but not limited to, weather or soil conditions, presence of other materials, disease, pests, drift to other crops or property or failure to follow label directions will be assumed by the Buyer or User. IN NO CASE WILL ROHM AND HAAS OR SELLER BE HELD LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE HANDLING, STORAGE OR USE OF THIS PRODUCT.

### DIRECTIONS FOR USE

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

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

### GENERAL INFORMATION

NOVA 40W fungicide is a systemic, protectant and curative fungicide recommended for the control of specific diseases mentioned on this label. Optimum disease control is achieved when the fungicide is applied in a regularly scheduled preventative spray program.

**USE RATE DETERMINATION** — Carefully read, understand and follow label use rates and restrictions.

Under low disease conditions, minimum label use rates per application can be used while maximum label rates and shortened spray schedules are recommended for severe or threatening disease conditions.

For proper application, determine the number of acres to be treated, the recommended label use rate and the gallonage to be applied per acre. Prepare only the amount of spray solution required to treat the measured acreage. Careful calibration of spray equipment is recommended prior to use.

**HANDLING** — The enclosed pouches of NOVA 40W fungicide are water-soluble. Do not allow pouches to become wet prior to adding to the spray tank. Do not handle the pouches with wet hands or wet gloves. Always reseal overwrap bag to protect remaining unused pouches. Do not remove water-soluble pouches from overwrap except to add directly to the spray tank.

**MIXING** — Always place NOVA 40W fungicide into solution prior to adding co-applied agricultural chemicals registered for use on specific crop or crops being treated. Add the required number of unopened pouches as determined by the dosage recommendations into the spray tank with agitation. Depending on the water temperature and the degree of agitation, the pouches should dissolve completely within approximately ten minutes from the time they are added to the water.

**COMPATIBILITY** — NOVA 40W fungicide is compatible with most commonly used agricultural fungicides, insecticides, growth regulators, micronutrients and spray adjuvants. When preparing tank mixes, user should consult spray compatibility charts or State Cooperative Extension Service Specialists prior to actual use.

**NOTE:** Do not use PVA pouches in a tank-mix with products that contain Boron or release free chlorine. The resultant reaction of PVA and Boron or free chlorine is a plastic which is not soluble in water or solvents such as diesel oils, kerosene, gasoline or alcohol. Do not attempt to use the PVA pouches directly in diesel oils or summer spray type oils as in ULV or LV uses. PVA pouches are water soluble not oil-soluble.

### STORAGE AND DISPOSAL

**STORAGE:** Store in a cool dry place but not below 32°F. Do not remove package from container except for immediate use.

**PESTICIDE DISPOSAL:** Do not contaminate water, food or feed by storage or disposal. Pesticide wastes are toxic. 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:** Completely empty container into application equipment. Dispose of in a sanitary landfill or by incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Wear eye protection. Wear protective clothing. Spray water on powder and dust. Scoop or shovel solid material into a suitable container for recovery or disposal. Keep dust to a minimum. Flush contaminated area with a large amount of water to a chemical or sanitary sewer containing a settling pit. Remove contaminated clothing promptly and wash affected skin areas with soap and water. Thoroughly launder clothing before reuse. Refer to Precautionary Statements.

**BEST AVAILABLE COPY**

**USE DIRECTIONS FOR USE ON APPLES** — Best control of labeled diseases is achieved when NOVA 40W fungicide is applied on a 7 to 10 day application schedule.

NOVA 40W is a systemic fungicide and does not redistribute after application. Application equipment spray nozzles should be adjusted to apply a uniform spray throughout the entire tree canopy

The amount of NOVA 40W fungicide required per acre varies with tree size and the volume of fruit and foliage to be treated. The following use recommendations are to be used to determine the amount of NOVA 40W fungicide to be used per 100 gallons spray or per acre:

**Determination of Use Rates on an Acre Basis**

The amount of NOVA 40W fungicide required per acre varies with tree size and the volume of fruit and foliage to be treated. The following summary table may be used as additional guidance for the determination of appropriate per acre use rates for NOVA 40W fungicide

Apple Tree Height (Feet)	Recommended Ounces NOVA 40W Fungicide per Acre for Control of:	
	Scab and Rust	Powdery Mildew
10 (or less)	2.5 to 4.0	2.5 to 5.0
15	3.75 to 6.0	3.75 to 6.75
20	5.0 to 8.0	5.0 to 10.0
25	6.25 to 10.0	6.25 to 12.5
30 (or more)	7.5 to 12.0	7.5 to 15.0

**Concentrate Spray Applications**

NOVA 40W fungicide should be used at the recommended use rate per acre in either dilute or concentrate sprays. Application of spray volumes less than 50 gallons per acre is not recommended. The following formula should be used to determine the equivalent amount of product per acre in 2X, 3X, etc. spray solutions

$$\frac{\text{Ounces NOVA 40W per acre} \times 100}{\text{Gallons spray applied per acre}} = \text{Ounces NOVA 40W per 100 gals.}$$

Example.

An apple orchard consisting of trees 20 feet in height will require 5 ounces NOVA 40W for adequate apple scab control. Application equipment has been calibrated to apply 80 gallons spray per acre, therefore:

$$\frac{5 \text{ ounces NOVA 40W per acre} \times 100}{80 \text{ gallons spray applied per acre}} = 6.25 \text{ Ounces per 100 gals.}$$

**Dilute, Thorough Coverage Applications**

Dilute, thorough coverage applications are based on the amount of spray solution required to thoroughly wet trees until spray runoff. The following table indicates use recommendations for specific disease control on a dilute spray basis of 400 gallons per acre

Disease	Rate of NOVA 40W oz./100 gals.*	Use Recommendations	Restrictions
Scab Prebloom  Bloom, Postbloom  Post infection	1.25 to 2.0 (0.5 to 0.8 active)	Begin application at green tip or when environmental conditions become favorable for primary scab development. Apply NOVA 40W fungicide alone or tank mixed with a protectant fungicide	Do not apply within 14 days of harvest.  Do not apply more than 5 pounds (2 lbs. active) NOVA 40W fungicide per acre per season.  Do not graze livestock in treated areas or feed cover crops grown in treated areas to livestock.  Application by ground equipment only.  Do not apply less than 50 gallons spray per acre.
	1.25 to 2.0 (0.5 to 0.8 active)	Use NOVA 40W fungicide in a tank mixture with the recommended rate of a protectant fungicide, registered for use on apples, for improved fruit scab and summer disease control	
	2.0 (0.8 active)	NOVA 40W fungicide provides 96 hour post infection control or curative activity. Apply as soon as possible after an infection period. Follow with a standard preventative spray schedule	
Powdery Mildew	1.25 to 2.5 (0.5 to 1.0 active)	Begin application at tight cluster and continue through the second cover spray. Additional sprays beyond second cover may be needed on susceptible varieties or under heavy disease pressure. Use high label rate if powdery mildew was present in previous years	
Rusts	1.25 to 2.0 (0.5 to 0.8 active)	Begin applications at pink stage and continue through the second cover spray	

\*Based on dilute sprays with a 400-gallon per acre base.

**USE DIRECTIONS FOR USE ON GRAPES** — Thorough spray coverage is essential for good disease control. NOVA 40W fungicide should be uniformly applied with a ground sprayer using 50 or more gallons of water per acre.

Disease	Rate of NOVA 40W oz. per acre	Use Recommendations	Restrictions
Black Rot	3 to 5 (1.2 to 2.0 active)	Begin application when new shoots are 1 to 3 inches in length and continue application on a 10 to 14 day schedule. Use higher rate under heavy disease pressure.	Do not apply more than 1.5 lbs. (0.6 lb. A.I.) per acre per year.  Do not apply within 14 days of harvest.
Powdery Mildew	3 to 5 (1.2 to 2.0 active)	Begin application at prebloom (12 to 18 inch shoots) and continue application on a 14 to 21 day interval. Use higher rate on susceptible varieties or under heavy disease pressure.	

NOVA is a registered trademark of Rohm and Haas Company

