



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (H7505C)
401 "M" St., S.W.
Washington, D.C. 20460

EPA Reg.
Number:
275-92

Date of Issuance:
SEP 14 1993

NOTICE OF PESTICIDE:
 X Registration
 Reregistration

Term of Issuance:
Conditional/Expires
9/14/94

Name of Pesticide Product:
ABG-3164 Plant Growth
Regulator

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Abbott Laboratories
1401 Sheridan Road
North Chicago, Illinois 60064-4000

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.
2. Revise the EPA Registration Number to read, "EPA Reg. No. 275-92".
3. Submit five copies of the revised final printed label for the record.
4. Update your "Environmental Hazards" statements to read "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", and "Do not contaminate water when disposing of equipment washwaters".

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Signature of Approving Official:

AS

Date:

SEP 14 1993

PLANT GROWTH REGULATOR

ABG-3164

SOLUTION

ACCEPTED
with COMMENTS
In EPA Letter Dated

SEP 14 1993

Under the Federal Insecticide
Fungicide, and Rodenticide Act
is approved, for the pesticide
registered under EPA Reg. No.

275-92

Active Ingredients:

N-(phenylmethyl)-1H-purine 6-amine.....1.8% w/w
(Equivalent to 72 grams active ingredient per gallon)

Gibberellins A₄A₇.....0.18% w/w
(Equivalent to 72 grams active ingredient per gallon)

Inert ingredients.....98.02% w/w

Total.....100.00% w/w

Store below 75°F (23°C)

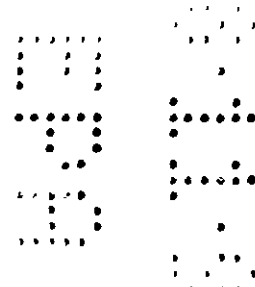
KEEP OUT OF REACH OF CHILDREN
WARNING

Chemical and Agricultural Products Division
Abbott Laboratories
North Chicago, Illinois 60064

EPA Reg. No. 275-
EPA Est. No. 44616-MO-1

Net Contents:

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STATEMENT OF PRACTICAL TREATMENT

IF IN EYES: Immediately flush with plenty of water. Call a physician.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING

Causes eye irritation. Do not get in eyes. Harmful if swallowed.

ENVIRONMENTAL HAZARDS

Keep out of lakes, ponds or streams. Do not contaminate water by cleaning of equipment or disposal of wastes.

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 through any type of irrigation system.

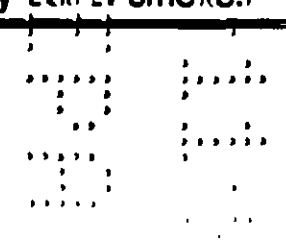
STORAGE AND DISPOSAL

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

STORAGE: Store below 75°C (23°C). Keep containers tightly closed when not in use.

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: Do not reuse empty containers. Triple rinse (or equivalent). Puncture and 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.

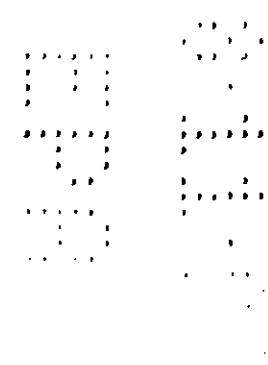


General Information:

ABG-3164 is a plant growth regulator which has been shown to be an effective thinning agent for apples when applied in the post-bloom period. The active ingredients in ABG-3164 are 6-Benzyladenine and Gibberellins A₄A₇, which are naturally-occurring substances found in plant tissues. Among other hormonal effects, ABG-3164 promotes cell division. Because of this activity, ABG-3164 may also increase fruit size of some varieties (e.g., 'Empire').

Application Instructions:

One to two applications of ABG-3164 should be made when king fruitlets are approximately 10 mm in diameter (note: This period may extend from approximately 7 to 21 days after full bloom, depending on the apple cultivar and local weather conditions. Refer to TABLE 1 for recommended spray concentrations of ABG-3164. Depending on desired ABG-3164 concentrations, use 35 to 200 gallons of final spray solution per acre per application. Do not, however, exceed the maximum recommended rate of 2.2 pints (20 gms 6-BA) per acre per application. Use calibrated spray equipment to ensure uniform spray coverage of leaves and developing fruit, particularly towards the upper half of the tree. Apply early in the morning or late in the afternoon when drying conditions are slower in order to ensure adequate absorption.



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APPLICATION RATES:

Varieties	PPM Range*
Rome	25-50
Jonamac, Jonagold, McIntosh, Empire, Golden Delicious	50-100
Paula Red, Red Delicious	100-150

*Refer to rate conversion table for ABG-3164.

TABLE 1

RATE CONVERSION TABLE FOR ABG-3164

GPA**	PPM					
	25	50	75	100	125	150
	Pints (Grams 6-BA)***					
35	0.37(3.3)	0.73(6.6)	1.10(9.9)	1.4(13)	1.8(16)	2.2(19.8)
40	0.41(3.7)	0.83(7.5)	1.26(11.3)	1.7(15)	2.1(19)	
50	0.52(4.7)	1.04(9.4)	1.56(14)	2.1(19)		
60	0.62(5.6)	1.22(11)	1.88(17)			
70	0.73(6.6)	1.46(13)				
75	0.79(7.1)	1.56(14)				
80	0.83(7.5)	1.67(15)				
90	0.94(8.5)	1.88(17)				
100	1.04(9.4)	2.10(19)				
125	1.31(11.8)					
150	1.56(14)					
175	1.78(16)					
200	2.10(19)					

**Gallons Per Acre.

***Each pint of ABG-3164 contains 9 grams of 6-BA and 0.9 grams of GA₄A₇. Note: only grams 6-BA are shown in conversion table.

Special Considerations

Effectiveness of chemical thinning depends greatly on environmental conditions before, during and after spraying, as well as the vigor or health of the trees. High temperatures before and after thinning applications, prolonged cool and cloudy periods, and rain before or immediately after spray applications increase the thinning response. Trees weakened by disease or physical damage thin easier than healthier trees; use lower rates for weaker, less vigorous trees.

Applications of ABG-3164 are most effective when air temperature is 70-75°C (21-24°). Do not spray ABG-3164 when temperatures are below 60°F (16°C) or above 80°F (27°C).

ABG-3164 should be applied alone. No information is available on spray tank-mix compatibility with other agrochemicals.

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