このことがはない。そのこのことでは、そのできているというというなどではないのでは、これではないのでは、これではないできないのでは、これではないできないとなっているというできない。

1.	-	43382 Vid 12
US ENVIRONMENTAL PROTECTION AGENCY OFFICE OF PESTICIDES PROGRAMS	EPA REGISTRATION NO 43382-23	DEC 3 1 1985
REGISTRATION DIVISION (75-767) WASHINGTON, DC 20460	TERM OF ISSUANCE	onic r
NOTICE OF PESTICIDE: REGISTRATION REREGISTRATION		,000C1
(Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended)	Futura XLV	
NAME AND ADDRESS OF REGISTRANT (Include ZIP code)		1
r-	7	6/1/64,559
Biocher Products	$\mathcal{L}$	6/1151
100 Rockland Road, Suite G P.O. box 264	,	· c// 1
Montenanin, DE 19710	/	811
	_ <b>'</b>	11
NOTE: Changes in tabeling formula differing in substance from submitted to and accepted by the Registration Division prior product always refer to the above U.S. EPA registration numbers.	to use of the label in com	
On the basis of information furnished by the registrant, the a the Federal Insecticide, Fungicide, and Rodenticide Act.	bove named pesticide is he	ereby Registered/Reregistered under
A copy of the labeling accepted in connection with this Reg	istration/Reregistration is	returned herewith,
Registration is in no way to be construed as an indorsement		
health and the environment, the Administrator, on his motion icide in accordance with the Act. The acceptance of any nandate is not to be construed as giving the registrant a right to	me in connection with the re	egistration of a product under this
by others.  This product is conditionally regi	stered in accordan	nce with FIFRA sec.
3(c)(7)(A) provided that you: 1. Submit ang/or cite all data re		ti /wavaaistration
of your product under FIFRA sec. 3(c)(	=	
registrants of similar products to sub		, roquired all
2. Make the labeling changes list for shipment:	ed below before yo	on release the product
a. Add the phrase "EPA Registrati		1
3. Submit five (5) copies of your	*	<del>-</del>
release the product for shipment. Ref description of final printed labeling.		closure for a further
If these conditions are not compli		stration will be
subject to cancellation in accordance	with FIFRA sec. 6	(e). Your release for
shipment of the product constitutes ac		
A stamped copy of the label is enc Note: The Agency strongly discour		
ups, as they are difficult to photogra		
,		
	mothy A. Gardner Oduct Manager (17)	1
<u>-</u>	secticide-Rodentic	

Registration Division (TS-767)

Enclosure

ATTACHMENT IS APPLICABLE		
SIGNATURE OF APPROVING OFFICE	1-tylestenden	DATE 12 -31-85
EPA Form 8570.4 (Pay 5.74)	DECHIOUS COLLION MAY BE HELD WITH THOSE WAS	

## FUTURA XLV

ACCEPTED

OSA COMMENTS

IN EPA Letter Desait

DECS 1 1985

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## **DIRECTIONS FOR USE**

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ar.

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

Futura Bacillus thuringiensis) Plowabile
Gencentrate provides best control when
caterpillars are newly hatched (1st or 2nd
instar) and most susceptible to the product
which must be eaten. Good leaf coverage is
essential to achieve effective insect control.
Higher rates are generally necessary when
infestations are heavy and foliage is dense.

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To obtain a suitable mixture with water, pour the recommended amount into a Vafilled tank and agitate. Fill tank and maintain agitation until the mixing process is complete Futura is compatible with various insecticides, fungicides, spreaders, and stickers except those that are highly alkaline in nature. Reagitate if dilute spray is allowed

For most trees, the recommended amount of product may be applied by high pressure hydraulic sprayers in 100 gallons of water per acre. Cover foliage thoroughly, but avoid runoff. Mist blower applications may use 10-20 gallons of water per acre.

to stand for more than 6 hours.

Spreaders and stickers improve coverage and are recommended.

For vine, pome, citrus and tropic annua; use recommended amount per 100 gallons water and apply 100 to 500 gallons of spray dilution per acre.

Aerial application should use recommended rates in up to 10 gallons of water per acre during early morning or evening hours when winds are low. Spray systems which produce a 50-300 micron droplet size are preferable.

For small quantity, use 1.5 teaspoonfuls per gailon of water to provide an application rate of 21 fl. oz./acre in 100 gallons of water.

Note: Because the active ingredient, Bacillus thuringiensis, is exempt from tolerance requirements, this product may be applied up to the day of harvest and in storage.

Notice: Local conditions may affect the use of Futura. Consult State Agricultural Extension or Experiment Station Specialists for specific recommendations related to local crop protection problems. Biochem Products makes no warranty, express or implied, including the warranties of commercially acceptable quality and/or fitness for any particular purpose concerning this material, other than those which are contained on this label.

ACTIVE INGREDIENT: Bacillus thuringiensis Berliner, v +ion Salids: \*\*
billion International Units per gallon of product) .....

INERT INGREDIENTS:

# Futura XLV contains 12,000 International is equivalent to 54.5 billion International

CAUTION: KEEP OUT OF RE

PRECAUTIONARY STATEMENTS
Hazards to Humans: Avoid inhalation
or contact with eyes or open wounds.

STORAGE AND DISPOSAL

Storage: Tightly reclose containers of unused Futura. Store in cool place. Activity may be impaired by storage at temperatures above 90°F.

Disposal: Drums can be used for non-food products after thorough cleaning with water. Smaller sized containers should not be reused. Perforate or crush and discard container according to local trash disposal regulations and in a safe place.

3



EFA Registration No. 43382-

EPA Est. No. G218 - M10 -2-Ne: Contents:

Lot No.

Net weight:

10.0 lb./gal.

APPLICATION RATES FOR FUTURAGE			
Cro.	Pest	Fl. Oz./Acre	
Field and Greenhouse vegetables, including:			
Broccoli, Collards,	Armyworms	21-41	
Cauliflower, Kale, Lettuce,	Tomato fruitworm/Corn earworm/	24 /	
Turnips, Turnip greens, Beets,	Bollworm	21 (every 5-7 days) 21	
Celery, Mustard greens, Beans, Cabbage, Brussel Sprouts, Peas,	Variegated cutworm Salt marsh caterpillar	21 5-21	
Chinese Cabbage, Sweet Potato,	Mimosa webworm	5-21	
Kohlrabi, Endive, Sweet Corn.	Tobacco budworm	5-21	
Tomatoes, Peppers, Eggplant,	Loopers, Melonworm, Picklews vm		
Escarole, Lentils, Potato,	Diamondback moth	5-16	
Spinech, Carrots, Cucumbers,	Imported cabbageworm	5-16	
Melons, Squash, profeseress	Green cloverworm	5-16	
Rappini, Actionses, Ti	Homworm, Arthurate force moth	5-16	
Tobacco	Tobacco budworm	10-21	
	Loopers	10-21	
	Homworms	5-16	
	prage use 2 fluid oz or 4 tablespoonfuls lied as a spray mist to leaf surfaces be floors of storage area.		
Safflower, Sugar beets,	Tobacco budworm/bollworm	3 21	
Mints, Peanuts, Alfalfa,	Loopers. Sua Hower mate	5-21	
Soybeans, Sunflowers, Hay,	Sait marsh caterpillar	5-21	
Pastures, Small grains,	Velvethean caterpillar	5-21	
Forage crops , Croin Services	Green cloverworm, Sorghum header		
Rice, wild Rice	Skippers Hernmens	/5-10 **Ce	
<u> </u>	Alialia caterpiliar	3-5	
Turf,	Sod webworm	41-83	
Rangeland	Rangeland caterpillar	3-5	
Grapes, Blueberries,			
Blackberries, Currants,		<i>197</i> -21	
Raspberries Heps,		1+7:21	
Strawberries,		107.21	
Dewberries	Hornworms	5.1621	
Cotton	2008010	107-21	
<b>i</b>	Tobacco budworm	5-21	
1	Bollworm	5-21	

Apply at first sign of 1st and 2nd instar budworm or bollworm larvae. Use at least 7 gallons total spray with ground equipment or 2-5 gallons/acre with aerial equipment. To continue worm suppression reapply at 3-5 day intervals or use scouting report recommendations.

Futura at 5-21 fl. oz./acre may be tank mixed with methomyl at .225 to .675 lbs. active ingredient (Al)/acre to suppress infestations of early instar larvae.

	Стор		F1. Oz./100 Gallons Carovad Application	FI. 02 1/4 (Air ANGCation
	Peaches, Plums,	Gypsy moth	1027-41 \$1	21-51
	Cherries, Walnuts,	Walnut caterpillar, Loopers	10-21	IC-21
1	Almonds, Pecans.	Leafrollers, Green fruitworm	10-21	10-21
- 1	Filberts, Prones	Cankerwom	5 18-21	10-24
	Apples, Pears,	Tent carpillars	518-21	10-21
s)	Avocados , kiwis	Redhumped caterpillar	5 10-21	10-21
	• • •	Fall webworm	10	10
	Forests, Shade trees,	Armyworms	21-41	-
	Omamental plants,	Pine butterfly	21	21
	Flowers , Should	Spruce budworm	21-41	21-41
	,	Western spruce budworm	21-41	21-41
		Douglas fir tussock moth	21-4/	21-41
		Diamondback moth	521-16	21
		Gypsy moth	1021-2151	21-51
-		Elm spanworm	10-21	10-21
		Bagworm, Saddled prominent	10-21	10-21
		Saddleback caterpillar, Leafroll	ers 10-21	10-21
er -		Loopers, Western russock moth Tobacco budworm/Bollworm/	10-21	10-21
0		Com earworm	10-21	10-21
		Io moth, Mimosa webworm	10-21	10-21
_		Jack pine budworm	10-21	:0-11
	į	Oleander moth	10-21	10-21
	}	Fall webworm	10	10
		Tent caterpillars	5-21	5-21
	1	Redhumped caterpillar	5-21	\$-21
		Cankerworms, Oakworms	5⋅21	5-31
٩	l	Hornworms	5-21	5-21
-`	For best control of Gypsy moth,		resent and w	ten leaf

expansion is 40-50%. Repeat in 1 to 3 weeks.

For best control of spruce budworm, apply on populations below 35 larvae per 18-inch branch tip and when 50% of the larvae are in the 3rd and 4th instar.

Citrus,	Leafrollers, Hornworms, Looper	10-21	10-21
Tropical fruits	Orangedog	5- <b>18/</b> 0	5-16
Stored Products: grain legumes, peanuts, oilseeds, and other seeds and grains		uarts/100 gallon) luid oz/gallon)	ıs

Continuously agitate spray solution and spray at the rate of spints per ten bushels to grain going into storage bins or bags on a conveyor or auger to obtain thorough mixing. Alternately, the top 4-6 inches of grain in a bin may be treated during the bin filling process or after filling with one quart in ten gallons water per 500 square feet surface area and raked in.

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