



A Division of Salsbury Laboratories, Inc. A Member of the Solvay Group Montchanin, Delaware 19710

> EPA Registration No. 43382-5 EPA Est. No. 43382-FR-01 Net Contents:

> > Lot No.

Product of France

BACTOSPEINE®

FLOWABLE CONCENTRATE

INERT INGREDIENTS:90

100%

KEEP OUT OF REACH OF CHILDREN CAUTION

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS: Avoid inhalation or contact with eyes or open wounds.

ENVIRONMENTAL HAZARDS

Avoid direct application to lakes, ponds, or streams.

Do not contaminate water by cleaning of equipment or disposal of wastes.

STORAGE AND DISPOSAL

STORAGE:

Tightly reclose containers of unused Bactospeine. Store in cool place. Activity may be impaired by storage at temperatures above 90°F. Protect from freezing.

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.

DIRECTIONS FOR USE

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

Bactospeine (Bacillus thuringlensis) Flowable Concentrate provides best control when caterpillars are newly hatched (1st or 2nd inster) 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.

For armyworm control, apply to plants and thoroughly to adjacent soil when larvae are young.

To obtain a suitable mixture with water, pour the recommended amount into a 1/2 filled tank and agitate. Fill tank and maintain agitation until the mixing process is complete. Bactospeine is compatible with various insecticides, fungicides, spreaders, and stickers except those that are highly alkaline in nature. Reagitate if dilute spray is allowed to stand for more than 6 hours.

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.

Spreaders and stickers improve coverage and are recommended.

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

Aerial applications should use recommended rates in ¼ 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 2 teaspoonfuls per gallon of water to provide an application rate of 1 qt/acre in 100 gallons of water.

NOTE: Because the active ingredient, Bacillus thuringlensis, 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 Bactospeine. 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.

Pann

Crop

Field and Gre vagetables, is Broccols, Spi Cauliffower, 9 Turnips, Turn Celory, Must Cabbage, Br Chinese Cab Kohlrabs, En Tornatoes, Pt Escarole, Len Spinach, Can Melons, Squa Tobacco

To control tob tobacco unifo walls and floo

Safflower, Sur Mints, Peanut Soybeans, Sur Pastures, Smi Forage crops

Turf. Rangeland Grapes, Bluel Blackberries Raspberries Stranberries, Dewberries

Apply at first: with ground reapply at 3-5 Bactospeine ingredient - A

Crop

Peaches, Plum Chemes, Waln Almonds, Peo Fiberts, Apples, Peurs!

Forests, Shad Omamental pi

For best conti Repeat in 1 to For best con'r of the larvae t

Citrus Tropical fruit Stored Proce grain legume peanuts, 0-154 and other set

and grains
Continuously
storage birs 6
grain in a bin
water per 50)

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STORAGE AND DISPOSAL

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APPLICATION RATES FOR BACTOSPEINE® FC

Crop	Post	Querte/Acre
Field and Greenhouse vegetables, including		
Broccoli, Spinach, Collards, Cauliflower, Kale, Lettuce, Turnips, Turnip greens, Beets, Celery, Mustard greens, Beans, Cabbage, Brussel Spiouts, Peas, Chinese Cabbage, Sweet Potato, Kohlrebi, Endiye, Sweet Corn, Tomatoes, Peppers, Eggplant, Escarole, Lenbls, Potato, Spinach, Carrots, Gucumbers, Metons, Squash	Annyworms Tennete Institutorm/Com serverm/Belliperm Yarlegeted Culworm Self margh colorpiller Missee webwerm Telegoo bashworm Leegors, Molermorm, Pickleverne Diamentheck meth Imperied authogowern Green clorerworm Hormore	1 - 2 1 (every 5-7 days) 1 1/4 - 1 1/4 - 1 1/4 - 1 1/4 - 1 1/4 - 3/4 1/4 - 3/4 1/4 - 3/4
Tobacco	Tobacco Industria Leapors	1/2 - 1 1/2 - 1

To control tobacco moth during storage use 3 fluid oz or 6 tablespoonfuls in one gallon water per 400 lbs tobacco uniformly applied as a spray mist to leaf surfaces before bundling or to opened bundles and to wails and floors of storage area.

Salflower, Sugar beets Mints, Peanuts, Alfalfa, Soybeans, Sunflowers, Hay, Fastures, Small grains, Forage crops	Tobasco budworm/boliwarm Loopers Selt moreh colorpillor Volvelboon colorpillor Grandon Selects	1/4 - 1 1/4 - 1 1/4 - 1 1/4 - 1 1/4 - 1 1/4 - 1/2
Turf, Range and	Attails cotorpillar Sod webwerm Rengeland cotorpillar	1/8 - 1/4 2 - 4 1/8 - 1/4
Grapes, Blueberries, Blackberries, Currants, Raspberries, Strawberries, Dewberries	Grapoloof skeletonizer Leopors, Salt march caterpiller Grapo looffelder/loofrellers Hormoonie	1/3 - 1 1/3 - 1 1/3 - 1 1/4 - 3/4
Cotton	Leapors Tebacco budinarm	1/3 - 1 1/4 - 1

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

Bactospeine at 25 to 10 quart/acre may be tank mixed with methomyl at 225 to .675 tbs. activing redient (All/acre to suppress infestations of early inster larvae

	Crop	Pest	Querts/100 Gallone (Ground Application)	Quarte/Acre (Air Application)	
	Peaches, Plums.	Cypey meth	1/2 - 2	1-2	
	Chemes, Walnuts,	Welnut cotorpiller, Langure	1/2 - 1	1/2 - 1	
	A'monds, Pecans,	Leafrellers, Green Fruitment	1/2 - 1	1/2 - 1	
	Fi-berts,	Conhermorme	1/4 - 1	1/2 - 1	
	Apples, Pears,	Tent caterpillers	1/4 - 1	1/2 - 1	. 1
	Avocedos	Redhumped cotorpiller Fell webwerm	1/4 - 1 1/2	1/2 · 1 · · · · · · · · · · · · · · · · ·	
. '	Forests, Shade trees,	Armywerms	1+2	•	
:	Omamental plants.	. Pine bullerly	1	1	
	Flowers	Spruce budworm	1-2	1-2	
	· · · · · · · · · · · · · · · · · · ·	Western spruce budworm	1	1	
		Douglee fir tweetck math	1	1	
		Dismandhack moth	1/4 - 3/4	1	
		Gypey meth	1/2 - 2	1.7	
		Elm spansorm	1/2 - 1	1/2 - 1	
		Segwerm, Saddled prominent	1/2 - 1	1/2 - 1	
		Saddeback coterpillar, Leafraiters	1/2 - 1	1/2 - 1	
		Leopers, Western tusseck math	1.'2 - 1	1/2 - 1	
		Tobacco budworm/Soffworm/Com cormorm	1/2 - 1	1/2 - 1	
		lo meth, Minese webworm	1/2 - 1	1/2 - 1	
		Jack pine budwarth	1/2 - 1	1/2 - 1	
	,	Cloender meth	1/2 - 1	1/2 - 1	
	E_{i}^{*}	Fall webwerm	1/5	1/2	
	``)	Sale Carin Series	1/4 - 1	1/4 - 1	
	· ·	Rednumped cathyller	1/4 - 1	1/4 - 1	
		Canterwarms, Oshwarms	1/4 - 1	1/4 - 1	
		Herrwormé	1/4 - 1	1/4 - 1	

For best control of Gypsy moth, apply when young languages on present and when leaf expansion is 40-50' Repeat in 1 to 3 weeks.

For best control of spruce budwirm, apply on populations below 35 tenses per till-inch branch tip and when 50% of the larvage grain the 3rd and 4th instar

Citrus	LeafroBers, Homsseme, Lospers	1/2 + 1	1/2 - 1
Tropical fruits	Orangedog	1/4 + 1/2	1/4 - 3/4
Signed Producto: grain legumes peanuts o Iseeds	indian meet moth Almond meth Mediterranean flour meth	10 quantu 10 (3 2 fluid oz/g	

Continuously agitate spray solution and spray at the rate of six pints per ten bushels to grain going into storage tuns or bags on a conveyor or auger to obtain thorough musing. Alternately, the top 4-6-nches 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 raited in