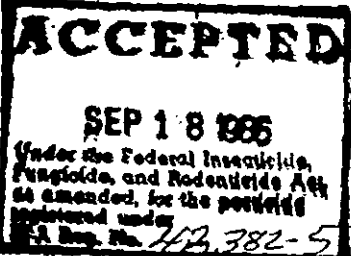


BACTOSPEINE[®]

FLOWABLE CONCENTRATE



DIRECTIONS FOR USE

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

Bactospeine (*Bacillus thuringiensis*) Flowable Concentrate 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.

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 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 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 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 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.

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FLOWABLE CONCENTRATE

ACTIVE INGREDIENT: <i>Bacillus thuringiensis</i> Berliner, var. <i>kurstaki</i> , fermentation solids: *	10%
INERT INGREDIENTS:	90%
	100%

*Bactospeine FC contains 8800 International Units per milligram which is equivalent to 35 billion International Units per gallon

CAUTION: KEEP OUT OF REACH OF CHILDREN

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

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.



Biochem Products

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 A Member of
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 Montchanin, Delaware 19710

BACTOSPEINE®

FLOWABLE CONCENTRATE

EPA Registration No.
43382-5

EPA Est. No.
6218-MD-2

Net Contents

Net Weight:
9.16 lb./gal.

Lot. No.

APPLICATION RATES FOR BACTOSPEINE® FC

Crop	Pest	Quarts/Acre
Field and Greenhouse vegetables, including:		
Broccoli, Collards,	Armyworms	1-2
Cauliflower, Kale, Lettuce,	Tomato fruitworm/Corn earworm/Bollworm	1 (every 5-7 days)
Rapini, Artichokes, Th.	Variegated cutworm	1
Turnips, Turnip greens, Beets,	Salt marsh caterpillar	1/4-1
Celery, Mustard greens, Beans,	Mimosa webworm	1/4-1
Cabbage, Brussels Sprouts, Peas,	Tobacco budworm	1/4-1
Chinese Cabbage, Sweet Potato,	Loopers, Melonworm, Pickleworm	1/4-1
Kohlrabi, Endive, Sweet Corn,	Diamondback moth	1/4-1/2
Tomatoes, Peppers, Eggplant,	Imported cabbageworm	1/4-1/2
Escarole, Lentils, Potato,	Green cloverworm	1/4-1/2
Spinach, Carrots, Cucumbers,	Hornworm, Artichoke plume moth	1/4-1/2
Melons, Squash, Watercress		
Tobacco	Tobacco budworm,	1/2-1
	Loopers	1/2-1
	Hornworms	1/4-1/2
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 surface before bundling or to opened bundles and to walls and floors of storage area.		
Safflower, Sugar beets,	Armyworms	1-2
Mints, Peanuts, Alfalfa,	Tobacco budworm/bollworm	1/4-1
Soybeans, Sunflowers, Hay,	Loopers, Sunflower moth	1/4-1
Pastures, Small grains,	Salt marsh caterpillar	1/4-1
Forage crops, Grain Sorghum,	Velvetbean caterpillar	1/4-1
Rice, Wild Rice	Green cloverworm, Sorghum headworm, Hornworms	1/4-1
	Skippers	1/4-1/2
	Alfalfa caterpillar	1/4-1/2
Turf,	Sod webworm	2-4
Rangeland	Rangeland caterpillar	1/4-1/2
Grapes, Blueberries,	Grapeleaf skeletonizer	1/4-1
Blackberries, Currants,	Loopers, Salt marsh caterpillar	1/4-1
Raspberries, Hops,	Grape leafroller/leafrollers	1/4-1
Strawberries,	Hornworms	1/4-1
Dewberries		
Cotton	Loopers	1/4-1
	Tobacco budworm	1/4-1
	Bollworm	1/4-1

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 the scouting report recommendations. Bactospeine at 25 to 1.0 quart/acre may be mixed with methomyl at .225 to .675 lbs. active ingredients (AI)/acre to suppress in: tations of early instar larvae.

Crop	Pest	Quarts/100 Gallons (Ground Application)	Quarts/Acre (Air Application)
Peaches, Plums,	Gypsy moth	1/2-2 1/2	1-2 1/2
Cherries, Walnuts,	Walnut caterpillar, Loopers	1/4-1	1/2-1
Almonds, Pecans,	Leafrollers, Green fruitworm	1/4-1	1/2-1
Filberts, Prunes,	Cankerworms	1/4-1	1/2-1
Apples, Pears,	Tent caterpillars	1/4-1	1/2-1
Avocados, Kiwis	Redhumped caterpillar	1/4-1	1/2-1
	Fall webworm	1/2	1/2
Forests, Shade trees,	Armyworms	1	-
Ornamental plants,	Pine butterfly	1	1
Flowers, Shrubs	Spruce budworm	1-2	1-2
	Western spruce budworm	1-2	1-2
	Douglas fir tussock moth	1-2	1-2
	Diamondback moth	1/4-1/2	1
	Gypsy moth	1/2-2 1/2	1-2 1/2
	Elm spanworm	1/2-1	1/2-1
	Bagworm, Saddle prominent	1/4-1	1/4-1
	Saddleback caterpillar, Leafrollers	1/4-1	1/4-1
	Loopers, Western tussock moth	1/4-1	1/4-1
	Tobacco budworm/Bollworm/		
	Corn earworm	1/4-1	1/4-1
	Io moth, Mimosa webworm	1/4-1	1/4-1
	Jack pine budworm	1/4-1	1/4-1
	Oleander moth	1/4-1	1/4-1
	Fall webworm	1/2	1/2
	Tent caterpillars	1/4-1	1/4-1
	Redhumped caterpillar	1/4-1	1/4-1
	Cankerworms, Oakworms	1/4-1	1/4-1
	Hornworms	1/4-1	1/4-1

For best control of Gypsy moth, apply when young larvae are present and when 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, Loopers	1/4-1	1/4-1
Tropical fruits	Orangedog	1/4-1/2	1/4-1/2
Stored Products:	Indian meal moth	10 quarts/100 gallons	
grain legumes,	Almond moth	(3.2 fluid oz/gallon)	
peanuts, oilseeds,	Mediterranean flour moth		
and other seeds			
and grains			

Continuously agitate spray solution and spray at the rate of six pints per ten bushels to grain going into storage bins or bags on a conveyor or auger to obtain thorough mixing. Alternately, the 4-6 inches of grain in a bin may be treated during the bin filling process or after filling with 1 quart in ten gallons water per 500 square feet surface area and raked in.