# BACTOSPEINE

### FLOWABLE CONCENTRATE

100%

# KEEP OUT OF REACH OF CHILDREN CAUTION

1: AUG 2

#### PRECAUTIONARY STATEMENTS

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

#### **ENVIRONMENTAL HAZARDS**

Keep out of 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:

Do not reuse empty container. Perforate or crush and discard container according to least trash dispassal regulations and up a safe place.

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 (Bacilius thuringiensis) Fiowable 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.

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. Dilute sprays should not be allowed to stand for more than 12 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 glalons of water per acre.

Spreaders and stickers improve coverage and are recommended.

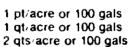
For vine, pome, citrus and tropical fruits, use recommended amount per 100 gallons water and apply 100 to 500 gallons of spray dilution per acre.

Aerial application should use recommended rates in 1/2 to 10 gallons of water per acre during early morning or evening hours when winds are low. Spray systems which produce a 200-300 micron droplet size are preferable.

#### Small Quantity Use Rates

#### Recommended Rate

Teaspoonfuls per Gallon



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

Manufactured by:

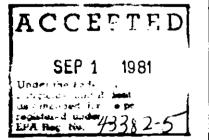
Biochem Products

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

#### **APPLICATIO**I

Crop

Field and Greenhouse vegetables including Broccoli Spinach Conards Caulifowir Kale Lettuce Turnips Turnips Turnips Turnips Beans Genty Mustand greens Beans Catholie Brussel Spinurs Plats Chinise Cit bage. Sweet Plats Kohratt - Endiver Sweet Chin

Tomaties Peppers Eggplant Estats in cents. Plata Spirach Carists Cucuntin Melons Squast

TODALCO

The netrol tobaccoin oth during totals columiformly applied as a waits and Februs of storage area.

haff ower. Sugar beets Mints: Peanuts: Alfalfa Soybeans: Sunflowers: Hay Pastures: Small grains Forage crops

Rangeland

Grapes Brueberries Brackberries Currants

Raspherries Curre Strawberries Dewberries

Cotton

Apply at first sign of 1st and 2nd with ground equipment or 2-5 reapply at 3.5 day intervals or u

Bactospeine at 25 to 1.0 quaringredient (Al) acre to suppres-

#### Crop Pest

Peacnes Plums
Cherries Walnuts
A monds Pecans
Filberts
Apples Pears

Gypsy mc Walnut ca Leafroiler Cankerwc Tent cate Redhump Fall webw

> Armywore Pine butte

Forests Shade trees Ornamental plants Flowers

Spruce bi Western s Douglas i Diamondi Gypsy mc Elm span Bagworm Saddleba Loopers. Tobaccoio moth, i Jack pine Oleander Fall webu Tent cate Redhump Cankerwic Horswor-

Leafroller

Orangedo

Indian me

For best control of Gypsy moth in Repeat in 1 to 3 weeks.
Use against spruce budworm p

Use against spruce budworn

Citrus Tropical fruits Stored Products: grain legumes

pean its oilseeds Modificand other seeds and grains Continuously agitate spray's

Continuously agriate spray sofitistorage hims or hags on a convertigation in a biology be treated diswater per 500 square feet surfa-

# OSPEINE

### BLE CONCENTRATE

ringiensis Berliner, var. kurstaki, primary powder fermentation onal Units per milligram of product (equivalent to 35 billion Inter-

......90%

100%

## OF REACH OF CHILDREN **CAUTION**

#### ECAUTIONARY STATEMENTS

Avoid inhalation or contact with eyes or open wounds.

#### INVIRONMENTAL HAZARDS

ep out of lakes, ponds, or streams. rater by cleaning of equipment or disposal of wastes.

#### STORAGE AND DISPOSAL

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

mpty container. Perforate or crush and discard container according sposal regulations and in a safe place.

#### **DIRECTIONS FOR USE**

e this product in a manner inconsistent with its labeling

Flowable Concentrate provides best control when caterpillars are nd most susceptible to the product which must be eaten. Good leaf fective insect control. Higher rates are generally necessary when is dense.

ents and thoroughly to adjacent soil when larvae are young

ater, pour the recommended amount into a 1/2 filled tank and agitate the mixing process is complete. Bactospeine is compatible with breaders, and stickers except those that are highly alkaline in nature. ed to stand for more than 12 hours.

o amount of product may be applied by high pressure hydraulic per acre. Cover foliage thoroughly, but avoid runoff. Mist blower ∮s of witer per acre.

Everage and are recommended.

fruits, use recommended amount per 100 gallons water and apply 100

cmmended rates in 1/2 to 10 gallons of water per acre during early inds are low. Spray systems which produce a 200-300 micron droplet

#### Small Quantity Use Rates

Teaspoonfuls per Gailon

; ent. Bacillus thuringiensis, is exempt from tolerance requirements. c the day of harvest and in storage.

ffect the use of Bactospeine. Consult State Agricultural Extension of r specific recommendations related to local crop protection problems rranty, express or implied, including the warranties of commercially for any particular purpose concerning this material, other than those

# APPLICATION RATES FOR BACTOSPEINE® FC

Crop	Pesi	Quarts/Acre
Field and Greenhouse vegetables including		-
Brocchi, Spinach, Chilards	Armyworms	1 2
Caudiower Kie Lettuce	Tomato fruitworm Corn earwarm Bollworm	Tievery 5-7 days)
Turnit's Turnip greens Beets	Variegated cutworm	1
Celery Mustard greens Beans	Salt march caterpillar.	• 4 1
Carbage Brusse Spic as Peac	Mimosa webworm.	14 1
Chilese Cabbage, Sweet Potato	Tobacco budworm.	1 1 1
Kor rate Endive Sweet Con	Loopers, Melonworm, Pickleworm	14 1
Timatoes Perpers Eggnant	Diamondback moth	14 34
En ar in corret s, for tall	Imported cabbageworm.	14 34
St nach Carrots Cucumters	Green cloverworm.	14 34
the uns siquast	Hornworm	14 34
Tobacco	Tobacco budworm.	12 1
	Loopers	12-1

flolognis, it to be compute it using storage liser at wid by a fiftable spillonfuls, in one gallon water per 400 ibs tobaccipien formly applied as agray mist toleaf surfaces before rundling or thiopened bundles and to lear single and to lear single area.

Hornworms

Saff-ower Sugar heets	Tobacco budworm-bollworm	1.4 - 1
Mints Peanuts Affaifa	Loopers.	14-1
Soybeans Sinfowers Hay	Salt marsh caterpillar,	14-1
Pastures Small grains	Velvetbean caterpillar,	14-1
Forage crops	Gre- 1 cloverworm	1 4 - 1
	Skippers	14-12
	Allatia caterpillar	18-14
Turf	Sod webworm	2 - 4
Range and	Rangeland calerpillar	18-14
Grasmis Bluntanrins		
Biai Aterres Currants	Grapelesi skeletonizer.	131
Rast berries	Loopers, Salt marsh caterpillar,	13-1
511d#E+11 #5	Grape leaffolder/leafrollers	131
[ endetwork en	Hornworms	14-34
Catton	Loopers	13-1
	Tobacco budworm.	14-1

Augustaf first sign of 1st and 2rid ir star budworm or bollworm farvae. Usc at least 7 gallions total spray with \_\_\_\_\_\_ indicated pment or 2 migal instaction with aerial equipment. To continue worm suppression maccolor of 3 midal intervals or use scouting report recommendations.

Halltospecies at 12th 100 quartiacre may be tank mixed with methomy, at 225 to 675 lbs, active gregient. All a rivin is appress infestation, of early instaniaryae

Сгор	Pest	Quarts/100 Gallons (Ground Application)	Quarts/Acre (Air Application)
Pearly F. Ts	Gypsy moth	12-1	+
Chernes Walnuts	Walnut caterpillar.	12.1	12 1
Ain in the Pecans	Leafrollers	12 1	1 2 1
f it 4-75	Cankerworms.	* 4 - 1	12.1
A, ples Pears	Tent caterpliars,	14-1	1 2 - 1
	Redhumped caterpillar	14 '	12 1
	Fall webworm	٠ 2	. 5
Forests Shade trees	Armyworms	1.2	
Ornamental plants	Pine butterfly,	1	1
Flowers	Spruce budworm	•	1
	Weslern spruce budworm	1	•
	Douglas fir tussock moth	1	1
	Diamondback moth	14-34	•
	Gypsy moth	12 1	•
	Elm spanworm,	12-1	12 1
	Bagworm, Saddled prominent,	12 1	12.1
	Saddleback caterpillar, Leafrollers.	12 1	12.1
	Loopers, Western tussock moth,	12 1	12-1
	Tobacco budworm/Bollworm/Corn earworm	.1 2 - 1	12.1
	lo moth, Mimosa webworm.	12.1	12 1
	Jack pine budworm,	12-1	12-1
	Oleander moth	12-1	12 1
	Fall webworm	1 2	1.2
	Tent caterpillars,	14 1	14-1
	Redhumped calerpikar.	14 1	14 - 1
	Cankerworms, Oakworms,	14 1	14 1
	Hornworms	14 1	14 1

or Lest control of Gypsy moth, apply when young larvae are present and when leaf expansion is 40-50%

Use against spruce budworm populations below 35, areae per 18 inch branch tip

s id grains

Citrus Tropical fruits	Leafrollers, Hornworms, Loopers Orangedog	12 1	12 1
Stored Preducts	Indian meal moth.	10 Quarts 100 gallons	
grain + jumes	Almond moth	72 % 3 4 4	G.e.⇔n
peacuts orseeds	Mediterranean flour moth		

Continues agreement spray could be an dispray after the first of superiter trushers from a ging into storage birship tags on a consequence of audient cobtain thorough mixing. Alternately, the top 4.6 runes of grain in a birn may be treated during the bird on gor kiess or after thing with the guard of the garons water per 50% square feet softals larea and have during the periods.