From:	Lloyd
To:	cbcnewsvancouver@cbc.ca; City Desk; csr@ok.bc.ca; jayson.zilkie@westkelownacity.ca; jen.zielenski@blackpress.ca; Josh@nowmediagroup.ca; okanagan@globalnews.ca; Travis. Not TV; bcassign@ctv.ca; news@castanet.net; cbrousseau@globeandmail.com; vantips@postmedia.com
Cc:	ben.stewart.MLA@leg.bc.ca; Board of Education; C C; Call To Action Cranbrook; chair@rdco.com; chodge@kelowna.ca; clderickson@wfn.ca; clouie@wfn.ca; dan.albas@parl.gc.ca; Ebata, Timothy FOR:EX; FOR.Minister@gov.bc.ca; James Shannon; jcoble@wfn.ca; lstack@kelowna.ca; Maxine DeHart; mayorandcouncil@kelowna.ca; Mayorandcouncil@lakecountry.bc.ca; mayorandcouncil@westkelownacity.ca; mayorvanminsel@peachland.ca; msingh@kelowna.ca; Premier@gov.bc.ca; Rick.G.Manwaring@gov.bc.ca; rwebber@kelowna.ca; tdyas@kelowna.ca; wayne.carson@rdco.com; Barlas, Sajid A ENV:EX; Funk, Tyson
Subject:	Press Release West Kelowna Aerial Moth Spray.
Date:	Tuesday, May 7, 2024 3:24:21 PM
Attachments:	Work.safe.aerial.spray.complaint.05.0324.docx Foray.aerial.data.sheet.docx WKB.1km.spray.map.pdf SD23.Worksafe.05.06.2.final.docx

FOR IMMEDIATE RELEASE

West Kelowna, May 7, 2024 – The West Kelowna Branch of the Kelowna Citizens Safety Association (WKB/KCSA) has formally filed a complaint with WorkSafe BC concerning the ongoing aerial BTK pesticide spray program being conducted in 13 communities across the Province. This program involves the spraying of bacterial pesticides over various residential, commercial, industrial, and park areas, including government offices and government-funded facilities such as hospitals, schools, care homes, and homeless shelters.

Lloyd Manchester, President of the WKB/KCSA, stressed the critical importance of adhering to workplace health and safety regulations, particularly in areas where essential government operations and public services are conducted. Manchester emphasized, "There must be a comprehensive plan in place for employers to protect workplaces, workers, and the public from exposure to the drift and residues of this bacterial pesticide, in accordance with WorkSafe regulations."

The WKB/KCSA has raised serious concerns about the potential health risks posed by these aerial pesticide applications to workers and the public, especially in and around sensitive facilities. Of particular concern is the lack of informed consent among the public, including pet owners and motorists passing through sprayed areas, who may be unknowingly exposed to the bacterial pesticide. Manchester also highlighted the failure to communicate necessary precautions as listed on the product label, which is essential for individuals to understand potential risks and adverse effects of exposure.

Moreover, the dual role of the Ministry of Forests, responsible for both conducting the aerial sprays and monitoring compliance, raises significant concerns about conflicts of interest and impartial oversight.

The WKB/KCSA calls for stringent enforcement of regulations that prioritize informed consent and comprehensive employer action plans for notifying workers about pesticide treatments

and potential exposure to residues. These plans should include thorough cleaning and inspection of affected facilities, testing of air quality systems, and vigilant monitoring to prevent pesticide drift into neighboring workplaces, especially in densely populated areas like Downtown Kamloops (scheduled for spraying on May 8, 2024).

Specifically, the West Kelowna aerial application raises alarm due to its proximity (within 1 kilometer) to four schools, including Constable Neil Bruce Middle School directly within the spray zone. Pesticide residues pose a significant risk to students, staff, and passerby's as they dry and enter school premises, potentially compromising air quality systems and contaminating structures.

The Pesticide Use Permit for these aerial applications mandates precautionary advice to minimize exposure to the pesticide or its residues, including remaining indoors with windows and doors closed during active spraying and for at least 1 hour thereafter, washing hands after outdoor activities, and washing fruits and vegetables before consumption. WorkSafe regulations have longer re-entry times. Manchester emphasized the importance of clearly communicating these precautions to employers, workers, and the public to raise awareness of potential exposure risks.

The WKB/KCSA demands a provincial halt to the aerial BTK pesticide program and insists that the Ministry of Forests be prohibited from assuming the role of inspectors or monitors of these applications. If the Province continues to support the spraying, strict adherence to WorkSafe BC regulations is paramount, with comprehensive communication of Pesticide Use Permit conditions and label precautions to minimize exposure for all employers and the public.

For media inquiries or further information, please contact:

Lloyd Manchester

250-878-9352

www.kelownacsa.org

NoSpray_kcsa@proton.me

May 6, 2024

Mr. Tyson Funk
WorkSafeBC
Occupational Safety Officer
Prevention Field Services

Subject: Formal Complaint Regarding the BTK Aerial Bacterial Pesticide Program being conducted by the Ministry of Forests in thirteen Provincial Communities

Dear Mr. Funk,

I hope this message finds you well. I am writing on behalf of the West Kelowna Branch of the Kelowna Citizens Safety Association (WKB/KCSA) to formally file a complaint concerning the ongoing aerial bacterial pesticide program that is being conducted across 13 communities in Province, including several areas that encompass government offices and government funded facilities such as hospitals, schools, care homes, homeless shelters, government offices, etc.

The WKB/KCSA is concerned about the potential risks posed by these aerial pesticide applications to the health and safety of workers and the public within and around these facilities. Without informed consent in these areas will be exposed to a bacterial pesticide without their knowledge. There is currently an investigation into recent permit violations from the aerially spraying of Tsawwassen and Langley. It is alleged that the Ministry of Forests sprayed immediately after a rainfall and failed to adequately inform the public with signage which raises further apprehensions regarding the effectiveness and safety of this program. I mention this given that the Ministry of Forests is appointed by law to be the Inspectors monitoring these aerial sprays and also determining if infractions occurred. This is a classic case of the fox guarding the chicken coup!

In light of your regulations that prioritize informed consent and mandate employer action plans for notifying workers about pesticide treatments, we urge you to ensure that these regulations are rigorously implemented across all affected areas. It is crucial that measures are taken to inform and protect individuals who may be unknowingly exposed to pesticide residues, especially in workplaces like hospitals and schools.

Of particular concern is the potential deposition of pesticide residues on and in workplaces, structures, sitting areas, etc, which could pose health risks as they dry, remain for several day and then breakdown. Furthermore, the unknown composition of 87% of the BTK pesticide formulation comprising the active Bt bacteria and other undisclosed components adds complexity to the situation. Without comprehensive testing for contamination and potential genetic manipulation (GMO) and evaluation of these residues, the safety of those exposed to pesticide residues is unknown and potentially harmful.

The WKB/KCSA requests that your office take proactive steps to enforce these regulations including thorough cleaning and inspection of affected facilities, testing of air quality systems, and diligent monitoring of potential pesticide drift into workplaces. Areas like Downtown Kamloops, where many employers are concentrated in the epicenter of the spray zone, require special attention to ensure the safety of workers and the public. The West Kelowna aerial application potentially affects four schools in proximity of thespray drift with Constable Neil Bruce middle school being directly within the spray zone. Pesticide residues will coat and dry onto structures on the school grounds and will be tracked directly into the schools and enter through the air system if not shut off.

In conclusion, we implore you to act swiftly and decisively to safeguard the health and welfare of all individuals impacted by this bacterial urban aerial pesticide program. Your commitment to enforcing regulations and ensuring compliance across the Province is essential in mitigating the risks associated with these bacterial aerial pesticide applications and their potential health effects to workers and others that are unknowingly exposed.

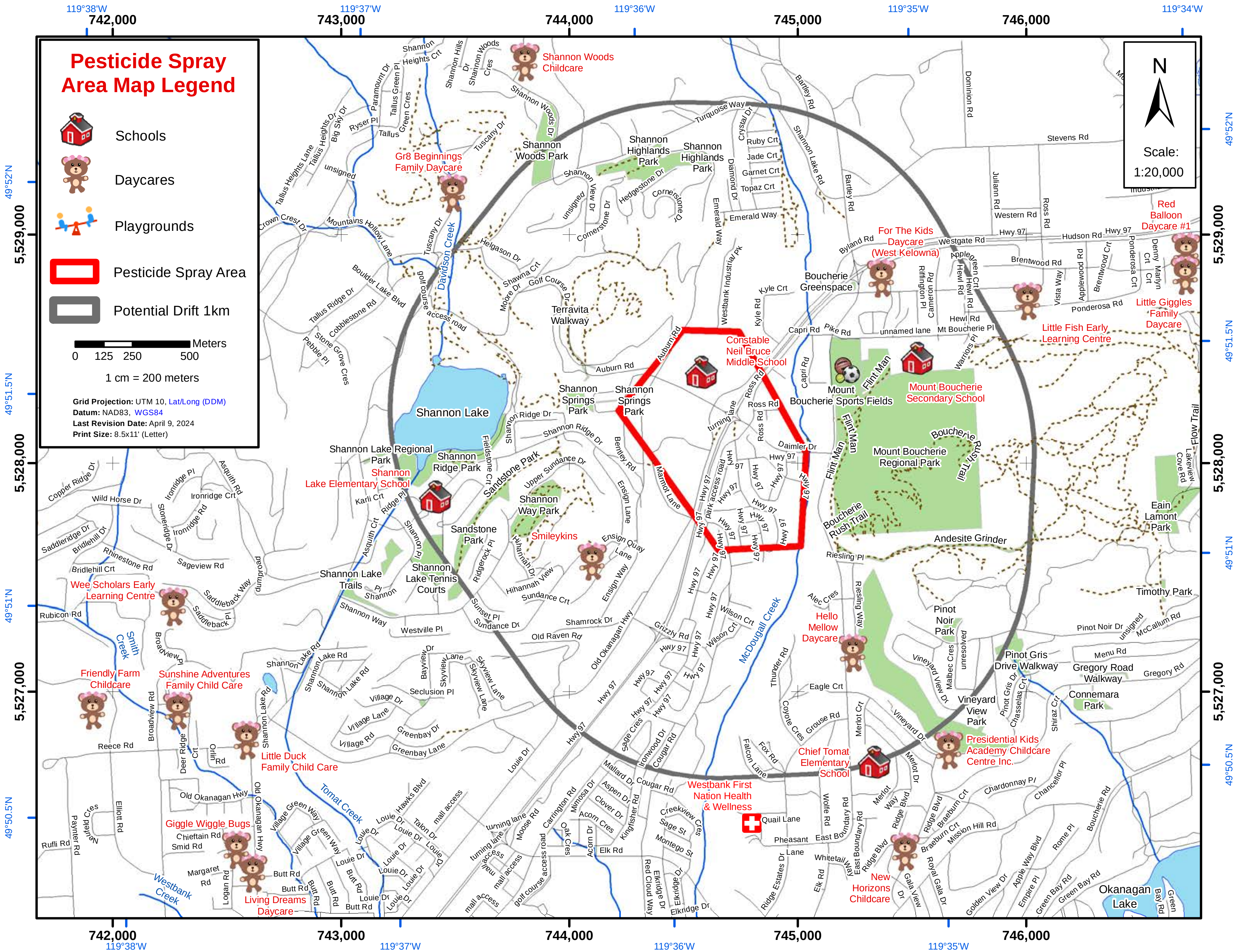
Thank you for your attention to this matter. We look forward to your prompt response and action on this urgent issue.

Sincerely,

On behalf of the West Kelowna Branch of the Kelowna Citizens Safety Association

Lloyd Manchester
President
250-878-9352

Cc: Premier Eby
Cc: Minister of Forests
Cc: Deputy Minister of Forests
Cc: West Kelowna City Council
Cc School District #23 Chair and Board of Education
Cc: Regional District of Central Okanagan Directors


Pesticide Spray Area Map Legend
Schools
Daycares
Playgrounds
Pesticide Spray Area
Potential Drift 1km
Meters
0 125 250 500
1 cm = 200 meters
Grid Projection: UTM 10, Lat/Long (DDM)
Datum: NAD83, WGS84
Last Revision Date: April 9, 2024
Print Size: 8.5x11' (Letter)
N
Scale:
1:20,000
Shannon Woods Childcare
Gr8 Beginnings Family Daycare
Constable Neil Bruce Middle School
Mount Boucherie Secondary School
For The Kids Daycare (West Kelowna)
Red Balloon Daycare #1
Little Giggles Family Daycare
Little Fish Early Learning Centre
Shannon Lake Elementary School
Smileykins
Wee Scholars Early Learning Centre
Hello Mellow Daycare
Friendly Farm Childcare
Sunshine Adventures Family Child Care
Little Duck Family Child Care
Giggle Wiggle Bugs
Living Dreams Daycare
Westbank First Nation Health & Wellness
Chief Tomat Elementary School
Presidential Kids Academy Childcare Centre Inc.
New Horizons Childcare
Shannon Lake
Shannon Lake Regional Park
Shannon Ridge Park
Shannon Woods Park
Shannon Highlands Park
Shannon Springs Park
Terravita Walkway
Sandstone Park
Shannon Way Park
Shannon Lake Tennis Courts
Shannon Lake Trails
Boucherie Greenspace
Mount Boucherie Sports Fields
Mount Boucherie Regional Park
Boucherie Rush Trail
Andesite Grinder
Eain Lamont Park
Timothy Park
Pinot Noir Park
Pinot Gris Drive Walkway
Gregory Road Walkway
Connemara Park
Vineyard View Park
Okanagan Lake
Davidson Creek
McDougall Creek
Smith Creek
Tomat Creek
Westbank Creek
Hwy 97
742,000
743,000
744,000
745,000
746,000
5,527,000
5,528,000
5,529,000
119°38'W
119°37'W
119°36'W
119°35'W
119°34'W
49°52'N
49°51.5'N
49°51'N
49°50.5'N

May 6, 2024

Lee-Ann Tiede, Chair
Board of Education
School District No. 23 (Central Okanagan)
1040 Hollywood Rd S.
Kelowna, B.C. V1X 4N2

Re; WorkSafe BC regulations regarding Aerial Spraying and residues of BTK in and on West Kelowna Schools

Dear Lee-Ann Tiede, Chair and Members of the Board of Education,

The West Kelowna Branch of the Kelowna Citizens Safety Association (WKB/KCSA) wrote a letter to you and the Board of Education on April 25, 2024 regarding the imminent aerial spraying of the bacterial pesticide BTK Foray 48B, over West Kelowna, including 4 schools within 1 km of the spray zone. (Map attached). We encouraged you and the Board to implement a plan to protect your staff, students and the public. Many of our recommendations in our April 25th letter should be incorporated given they are mentioned in the WorkSafe BC regulations, such as cleaning up the bacterial pesticide residues,

Please be advised that the WKB/KCSA believes that you are required under WorkSafe BC regulations to notify your employees, students and staff that several aerial pesticide applications will be taking placed in and around West Kelowna schools. (map attached regarding a 1 km spray drift zone) All schools are within the one kilometer spray drift zone.

As per the WorkSafe BC Occupational Health and Safety regulations you will need to determine whether pesticide drift onto or will enter these four schools. We are prepared to supply the Board of Education with Kromekote pesticide spray drift cards if you want to
ensure that a pesticide mitigation plan is in place and should the pesticide drift land on school properties you will know.

Section 6.76 of the WorkSafe BC regulations requires you as an employer to notify staff and students of this imminent aerial pesticide application that will be landing on and in your schools. These regulations speak to the deposition of pesticides on school property, and the health and safety precautions that must be followed which includes Informed consent and the need for employers to create a plan to mitigate exposure to this bacterial insecticide and the resulting residues of unknown toxicity. Please bear in mind that the residues will contain the active bacteria comprised of spores and insecticidal toxins and the 87% of unknown ingredients.

The regulations also speak to the cleanup of residues which will occur even though the Ministry of Forests states that this product causes no harm to humans or pets. If this was truly the case, why are their label precautions as to the adverse effects that may result from the pesticide exposure. (BTK aerially spraying label attached. Please not the precautions).

We urge School District 23 to prioritize the well-being of students, teachers, and staff by creating and implementing a bacterial pesticide mitigation plan that will protect and mitigate exposure to this bacterial pesticide with 87% of the formulation unknown. Please advise the WKB/KCSA if you intend to follow the WorkSafe BC regulations and implement a bacterial pesticide mitigation plan to protect workers, staff and the public.

Sincerely yours,

On behalf of the West Kelowna Branch of the Kelowna Citizens Safety Association

Lloyd Manchester
President
250-878-9352
www.kelownacsa.org

Cc: Premier Eby
Cc: Minister of Forests
Cc: Deputy Minister of Forests
Cc: West Kelowna City Council
Cc: Regional District of Central Okanagan Directors

Foray® 48B

BIOLOGICAL INSECTICIDE

FLOWABLE CONCENTRATE

For Commercial Forestry and Wide-Area
Pest Treatment—Aerial Application Only

FOR ORGANIC PRODUCTION

ACTIVE INGREDIENT:

Bacillus thuringiensis, subsp. kurstaki, strain ABTS-351, fermentation solids, spores and insecticidal toxins 12.65%

OTHER INGREDIENTS 87.35%

TOTAL. 100.00%

Potency: 10,600 Cabbage Looper Units (CLU) per mg of product (equivalent to 48 billion CLU per gallon).

The percent active ingredient does not indicate product performance and potency measurements are not federally standardized.

EPA Reg. No. 73049-427

EPA Est. No. 33762-IA-OOI List No. 60181

INDEX:

KEEP OUT OF REACH OF CHILDREN

CAUTION

FIRST AID	
If in eyes	• Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-877-315-9819 (24 hours) for emergency medical treatment and/or transport emergency information. For all other information, call 1-800-323-9597.	

2.0 PRECAUTIONARY STATEMENTS

2.1 HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

2.2 Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water, Keep and wash PPE separately from other laundry.

2.3 Agricultural Use Requirements

Mixers/loaders and applicators must wear a NIOSHapproved particulate respirator with any R or P filter with NIOSH approval number prefix TC-84A; or a NIOSH approved powered air purifying respirator with an HE filter with NIOSH approval number prefix TC-21C. Repeated exposure to high concentrations of microbial proteins can cause allergic sensitization.

2.4 Engineering Controls

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Recommendations

Users should:

- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

2.6

2.7 Environmental Hazards

Except under the forest canopy, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

This product must not be applied aerially within 1/4 mile of any habitats of threatened or endangered Lepidoptera.

IMPORTANT: When reduced PPE is worn because a closed system is being used, handlers must provide all PPE specified above for "applicators and other handlers" and have such PPE immediately available for use in an emergency, such as spill or equipment breakdown.

2.5 Non-agricultural Use Requirements

Mixers/loaders and applicators must wear a NIOSHapproved particulate respirator with any R or P filter with NIOSH approval number prefix TC-84A; or a NIOSHapproved powered air purifying respirator with a HE filter with NIOSH approval number prefix TC-21C. Repeated exposure to high concentrations ot microbial proteins can cause allergic sensitization.

CONTINUED

7.0 DIRECTIONS FOR USE BOOKLET

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.

Apply this product only through aerial application.

6.0 WARRANTY AND DISCLAIMER

To the extent permitted by applicable law, seller makes no warranty, express or implied, of merchantability, fitness or otherwise concerning the use of this product other than as indicated on the label. User assumes all risks of use, storage or handling not in strict accordance with accompanying directions.

3.0 DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. For any requirements specific to your

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to supplemental labeling under "Agricultural Use Requirements" in the Directions For Use section for information about this standard.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Pesticide Storage: Store in a cool, dry place. Keep containers tightly closed when not in use. Store in temperatures above freezing and below 32 degrees C (90 degrees F).

Pesticide Disposal: To avoid wastes, use all material in this container by application according to label directions. If wastes can not be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry).

Container Disposal: Nonrefi'lable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for

10 seconds after the flow begins to drip. Repeat this procedure two more times. Offer for recycling if available. Offer for reconditioning, if appropriate.

Refillable Container: Refill this container with pesticide only. Do not use this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Offer for recycling is available. Offer for reconditioning. if appropriate.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 4 hours.

PPE required for early entry to treated areas that is perinitted under the Worker Protection Standard (that involves contact with anything that has been treated, such as plants, soil, or water) is:

- Coveralls
- Waterproof gloves
- Shoes plus socks

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries or greenhouses.

State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.

Refer to the Directions For Use (below) for further directions.

APPLICATION

Apply Foray 48B Biological Insecticide Fiowable Concentrate (hereafter referred to as Foray 48B) undiluted or with quantities of water sufficient to provide thorough coverage of plant parts to be protected, only by aerial equipment. The amount of water needed per acre will depend upon crop size, weather, spray equipment, and local experience. Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment-andweather-related factors determine the potential for spray drift. The applicator and the grower/treatment coordinator are responsible for considering all of these factors when making decisions,

11.0 HANDLING AND MIXING

Repeat applications every 3 to 14 days to maintain control and protect new plant growth. Factors affecting spray If Foray 48B is applied undiluted, the operator must ensure interval include rate of plant growth, weather conditions, that the bulk quantity is well agitated and homogenous. and reinfestation. Monitor populations of pests and beneficials to determine proper timing of applications.

When Foray 48B is shipped by bulk tankers and Under conditions of heaw pest pressures or when large worms transferred via a closed-loop mixing/loading system, the are present use the higher rate, shorten the application material is measured by passing through in-line flow interval, and/or improve spray coverage to enhance control. meters directly into the aircraft, minimizing exposure to When these conditions are present, consider use of ground handling personnel. contact insecticide to enhance control.

In a also to be used with a closed-loop mixing/loading system to minimize the potential for accidental spills and exposure of ground handling personnel.

If dilution with water is needed for full coverage, fill tank with approximately 3/4 of the water required for dilution.

Begin agitation and pump Foray 48B into the water while maintaining continuous agitation. Agitate as necessary to maintain suspension. Do not allow diluted mixture to remain in the tank for more than 72 hours.

When applying a diluted spray mixture, the use of a spreader-sticker will improve the weatherfastness of the spray deposits. Add the spray adjuvant to the tank after the Foray 48B is added, and before the final volume of water is added to complete the mixture. Reduce or momentarily halt tank agitation and then add the required amount of adjuvant to the diluted mix. Use a closed-loop system to siphon the required quantity of adjuvant or pour the adjuvant into the top hatch of the tank.

Crop Group	Pests	Ratel (fl. ozJAcre)
Forests, Shade Trees, Ornamentals, Shrubs, Sugar Maple Trees,	Gypsy Moth & Asian Gypsy Moth Elm S anworm, Spruce Budworm, Browntail Moth, Douglas Fir Tussock Moth Coneworm Buck Moth	21 - 107
Seed Orchards, Non-Bearing Ornamental	Tussock Moths, Pine Butterfly, Bagworm, Leafrollers, Tortrix, Mimosa Webworm, Tent	16 - 43
Fruit, Nut and Citrus Trees	Caterpillar, Jackpine Budworm, Blackheaded Budworm, Saddled Prominent, Saddleback Caterpillar, Eastern and Western Hemlock Looper, Orangestriped Oakworm Satin Moth	21 - 80
Redhumped Caterpillars, Spring and Fall Cankerworm, California		11 - 31

of are similar manner, smaller containers Foray 48B Thorough coverage is essential for optimum performance.

Once added, close Oakworm, Fall Webworm tank opening, and resume agitation; add the rest of the Special Instructions:

water to complete the spray mix. [1] Use the higher rates on advanced larval stages or under high density Combinations with commonly used tank spray adjuvants larval populations.

Use and mix this product with other pesticides only in accordance are generally not deleterious to Foray 48B, if the mix is with the most restrictive of label limitations and precautions. Do not used promptly. Before mixing in the spray tank, identify mix this product with any product containing a label prohibition possible problems with physical compatibility by mixing all against such mixing. Do not exceed label dosage rates. components in a small container in proportionate quantities.

Check with an adjuvant supplier for advice on spray 14.0 GENERAL NON-AGRICULTURAL USE INSTRUCTIONS adjuvants that are compatible with biological pesticides such as Foray 48B to help avoid incompatibilities. Not for use on plants being grown for sale or other commercial use, or for commercial seed production, or for 12.0 SPRAY VOLUMES research purposes. For use on plants intended for aesthetic purposes or climatic modification and being grown in Aerial Application: Use appropriate amount of Foray 48B, ornamental gardens or parks, or on golf courses or lawns as indicated in the tables that follow, in aerial equipment and grounds.

undiluted or with quantities of water sufficient to provide Not for use on trees being grown for sale or other commercial thorough coverage of plant parts to be protected. In the use, or for commercial seed production, or for the production western U.S., use a normal minimum of 5-10 gallons per of timber or wood products, or for research purposes except acre; in the eastern regions, use a normal minimum of wide-area public pest control programs sponsored by 2-3 gallons. The minimum amount of water needed per government entities, such as mosquito abatement, Gypsy acre will depend upon crop size, weather conditions, spray Moth control, and Mediterranean Fruit Fly eradication.

equipment used and local experience. Foray 48B contains the spores and endotoxin crystals of Bacillus thuringiensis kurstaki. Foray 48B is a stomach

13.0 GENERAL AGRICULTURAL USE INSTRUCTIONS poison and is effective against lepidopterous larvae. After

Foray

lepidopterous 48B of Bacillus is larvae. a biological thuringiensis It contains insecticide the kurstaki. spores for Foray the and control 48B endotoxinmustofingestion, days instar later. larvae. larvae Maximum Apply stop Foray activity feeding 48B only is within exhibited by hours aerial against application.and die early2-5

crystals be ingested by the larvae to be effective. For consistent Use Foray 48B with a closed-loop mixing/loading system control, apply at first sign of newly hatched larvae (1st and that will minimize the potential for accidental spills and 2nd instar larvae). Susceptible larvae that ingest Foray 48B exposure of ground handling personnel.

cease feeding within a few hours and die within 2-5 days. If dilution with water is needed for full coverage, fill tank Foray 48B may be applied up to and on the day of han./est. with approximately 3/4 of the water required for dilution. For maximum effectiveness, follow the instructions listed Begin agitation and pump Foray 48B into the water while below: maintaining continuous agitation. Agitate as necessary to maintain suspension. Do not allow diluted mixture to Monitor fields to detect early infestations. remain in the tank for more than 72 hours. Apply Foray 48B when eggs start hatching and larvae are Monitor to detect early infestations. small (early instars) and before significant damage occurs. Larvae must be actively feeding to be affected.

		Ratel
Shade Trees, Ornamentals, Shrubs, Sugar	Moth, Elm Spanworm	
	Spruce Budworm Browntail Moth, Douglas Fir Tussock Moth, Coneworm, Buck Moth	21 - 80
Maple Trees, Seed Orchards, Non-Bearing Ornamental Fruit, Nut and Citrus Trees	Tussock Moths, Pine Butterfly, Bagworm, Leafrollers, Tortrix, Mimosa Webworm, Tent Caterpillar. Jackpine Budworm, Blackheaded Budworm, Saddled Prominent, Saddleback Caterpillar, Eastern & Western Hemlock Looper, Orangestriped Oakworm Satin Moth	16 - 43
	Redhumped Caterpillars, Spring and Fall Cankemorm, California Oakworm Fall Webworm	11 - 31

Crop	Pests	(fl. oz./Acre)
Forests,	Gypsy Moth & Asian Gypsy	21 - 107

Special Instructions:

[1] Use the higher rates on advanced larval stages or under high density larval populations.

Use and mix this product with other pesticides only in accordance with the most restrictive of label limitations and precautions. Do not mix this product with any product containing a label prohibition against such mixing. Do not exceed label dosage rates.

Aerial Application

Apply Foray 48B, either alone or diluted with water, aerially at the rates per acre shown in the application rates table. Spray volumes of 32-107 fluid ounces of product per acre give optimum coverage. Best results are expected when Foray 48B is applied to dry foliage.

For smaller spray volumes, mix the proper number of teaspoons of Foray 48B from the following chart to attain the desired rates:

If the rate is:	Add this amount per gallon of mix:
. oz. (0.5 pt.)/acre	1/2 teaspoon
16 fl. oz. (1.0 pts.)/acre	1 teaspoon
24 fl. oz. (1.5 pts.)/acre	1-1/2 teaspoons
32 fl. oz. (2.0 pts.)/acre	2 teaspoons
48 fl. oz. (3.0 pts.)/acre	3 teaspoons 64 fl. oz.
(4.0 pts.)/acre	4 teaspoons

44-1009/R3 (Pkg: 04-9433/R7)

VALENTBiOSClENCES
Valent Biosciences LIC 1910 Innovation way,
Suite 100 Libertyville, IL 60048, U.S.A.
1-800-323-9597