

19713-105

8/1/2014

117



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

Ms Luz G Chan
Drexel Chemical Company
PO BOX 13327
Memphis, TN 38113-0327

AUG 01 2014

Subject: Product Name: Drexel Leven 38
EPA Reg. No. 19713-105
Submission date: 1/13/14
Resubmission dates: 7/28/14 & 7/29/14
Amendment: Add "broadcast boom" application, clarify use directions, formatting and other changes for harmonization across Drexel tobacco labels
Decision Number 487305

Dear Registrant:

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act as amended is acceptable under FIFRA 3 (c) (5).

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one (1) copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

If you have questions concerning this letter, please call Banza Djapao at 703-305-7269, or via email at djapao.banza@epa.gov or you may call me at 703-308-9443.

Sincerely,

A handwritten signature in black ink that reads "Tony Kish".

Tony Kish
Product Manager 22
Fungicide Branch
Registration Division (7504P)

2/7

clean copy

ACCEPTED
AUG 01 2014
 Under the Federal Insecticide,
 Fungicide, and Rodenticide Act,
 as amended, for the pesticide
 registered under
 EPA Reg. No. **19713-105**

Contact And
 Systemic

Drexel

Leven-38

Tobacco Sucker Control Agent

ACTIVE INGREDIENTS:

n-Decanol..... 38.3%
 Potassium salt of 6-hydroxy-3-(2H)-pyridazinone*..... 11.1%

OTHER INGREDIENTS:..... 50.6%

TOTAL:..... 100.0%

*Equivalent to 0.66 pound of Maleic hydrazide per gallon.
 This product contains 4.0 pounds of active ingredients per gallon.

KEEP OUT OF REACH OF CHILDREN
CAUTION

See **FIRST AID** Below

SHAKE WELL BEFORE USING
 (Optional: Recirculate Contents Before Use)

EPA Reg. No. 19713-105
 EPA Est. No. 19713-XX-XXX

Net Content: _____

FIRST AID
<p>IF SWALLOWED:</p> <ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything to an unconscious or convulsing person.
<p>IF IN EYES:</p> <ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15 to 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.
<p>IF ON SKIN OR CLOTHING:</p> <ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 to 20 minutes. • Call a poison control center or doctor for treatment advice.
<p>IF INHALED:</p> <ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact CHEMTREC at 800-424-9300 for emergency.</p>

105SP-0714*P

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION: Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are barrier laminate, butyl rubber, nitrile rubber, polyvinyl chloride or viton. If you want more options, follow the instructions for category C on an EPA chemical-resistance selection chart.

Mixers, loaders, applicators and other handlers must wear: Long-sleeved shirt and long pants, shoes plus socks, and chemical-resistant gloves made of any waterproof material.

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

Discard clothing and other absorbent material that have been drenched or heavily contaminated with the product's concentrate. Do not reuse them.

USER SAFETY RECOMMENDATIONS

Users should: 1) Wash hands before eating, drinking, chewing gum, using Tobacco or using the toilet. 2) Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. 3) 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.

ENVIRONMENTAL HAZARDS

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 disposing of equipment washwaters or rinsate.

SURFACE WATER ADVISORY

Under some conditions, maleic hydrazide may have a significant potential for runoff into surface water (primarily via dissolution in runoff water) for several days post-application. Conditions favoring runoff include poorly drained soils or wet soils with readily visible slopes, frequently flooded areas, areas where an intense or sustained rainfall is forecast to occur within 48 hours, areas overlying extremely shallow groundwater and areas overlying tiles drainage systems that flow to surface water.

PHYSICAL OR CHEMICAL HAZARDS

Keep away from heat or open flames.

PRODUCT INFORMATION

LEVEN-38 is a contact and systemic sucker control agent whereby one application will control small suckers on contact within one hour after application and works systemically in the Tobacco plant to control cell division and the formation of new suckers. This product is formulated exclusively for the control of Tobacco suckers and sucker buds. This product can be applied by conventional spray equipment. Use a coarse spray wetting the upper one-half of the Tobacco plant allowing the solution to run down the stalk of each plant. Use 20 to 35 pounds of pressure. Plants that are leaning must be straightened in order that the solution flows down the stalk evenly contacting each sucker and sucker bud.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product through any type of irrigation system. 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. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard (WPS), 40 CFR Part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, 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 (REI). The requirements in this box only apply to uses of this product that are covered by the WPS.

Do not enter or allow worker entry into treated areas during the REI of 24 hours.

PPE required for early entry to treated areas that is permitted under the WPS and that involves contact with anything that has been treated, such as plants, soil or water is: Coveralls, chemical-resistant gloves made of any waterproof material, and shoes plus socks.

MIXING INSTRUCTIONS

The diluted emulsion is most easily prepared by adding the required amount of this product into the spray tank one-half filled with water using mild agitation. Then add sufficient water to the spray tank to total the required minimum solution.

Note: In order to minimize the possibility of injury to Tobacco plants, do not mix this product with other chemicals such as insecticides, fungicides or herbicides or apply this product to plants that have recently been treated with such chemicals.

APPLICATION RESTRICTIONS

- Do not make more than one application per season.
- Do not use on Tobacco plants grown for seed production.
- Allow at least 3 weeks after application of this product before harvest of Tobacco.

APPLICATION INSTRUCTIONS

BURLEY, DARK, FLUE-CURED, MARYLAND, AND CIGAR TOBACCO

Top Tobacco plants to be treated at 10 to 25 percent flower stage (one or more tubers per seed head), remove all suckers one-half inch or greater in length. Spray the plants promptly within 24 hours following topping. Mix 3 gallons of this product in sufficient water totaling a minimum of 50 gallons water. In order to obtain best results, it is important that the product always be added to water. Spray this product emulsion uniformly within 24 hours after topping using a minimum of 50 gallons spray solution.

Apply this product during morning hours immediately after morning dew dries and throughout the day but avoiding late afternoon or night applications. Avoid spraying during heat stress or bright noon day sun with temperatures exceeding 90°F because injury to top tender leaves may result.

Do not apply this product when wind velocity is high enough to turn or tip top leaves because injury may result from the application to the underside of the Tobacco leaf. Do not apply during rain or when leaves are wet from rainfall, dew or irrigation. The contact agent in the formulation is effective within one hour following application; however, the systemic agent in the formulation requires a minimum of 6 hours for maximum absorption and effectiveness throughout the entire plant. Rainfall in less than that period of time may reduce effectiveness. If applied during drought, the contact portion of the formulation continues to function normally, however the systemic sucker control action may be reduced due to diminished absorption capabilities under drought conditions.

Make sure the contents of this product are shaken well before using.

METHODS OF APPLICATION

Hand Application

This product may also be applied with hand-held equipment or backpack sprayer. Apply a coarse spray directed downward at the top of the stalk from 6 to 8 inches above the top leaves. Low tank pressure is required, and in no case should more than 20 pounds per square inch (psi) be used.

Powered Spray Equipment

Broadcast Application: When applying as a broadcast spray or straight boom application, use one nozzle directed over the center of the row and one nozzle directed over the center of the row- middle (TG-3, TG-5 full cone tips or equivalent) spraying one or more rows at a time, wetting upper one-third or one-half of each plant. Maintain a coarse spray using 25 to 35 psi boom pressure. By using TG-3 spray tips, spraying at 25 to 35 psi pressure and operating at a speed of 1.5 to 3 mph, apply in a minimum of 50 gallons of diluted emulsion per acre of Tobacco. By using TG-5 spray tips, spraying at 25 to 35 psi pressure and operating at a speed of 3 to 5 mph, apply in approximately 50 to 60 gallons of diluted emulsion per acre of Tobacco. Apply the diluted product to Tobacco as a coarse spray from a height of 12 to 16 inches above the top of the stalk.

Directed Application (3 Nozzles): When applying as a directed spray, use three nozzles per row (TG-3, TG-5 full cone tips or equivalent) spraying one or more rows at a time, wetting upper one-third or one-half of each plant. Direct one TG-5 nozzle downward over the center of the row and TG-3 nozzles (9 inches on each side) directed at or slightly above the top of the stalk. Keep boom pressure at 20 to 25 psi and never to exceed 30 psi. By using TG-3, TG-5 spray tips, spraying at 20 to 25 psi pressure and operating at a speed of 2.5 to 3 mph, apply a minimum of 50 gallons of diluted emulsion per acre of Tobacco. Apply the diluted product to Tobacco as a coarse spray from a height of 12 to 16 inches above the top of the stalk.

Use Precautions

If allowed to stand for extended periods of time, the diluted emulsion may separate. Always remember to mix well immediately before using and maintain agitation during application. Equip all sprayers with a pressure regulator and a pressure gauge.

ADDITIONAL TREATMENT PROGRAMS

Tank Mixture with Products Containing Flumetralin such as Drexalin® Plus

DREXALIN® PLUS is a product containing flumetralin as the active ingredient. Other products containing flumetralin approved for use on Tobacco by EPA can also be tank-mixed with this product. Follow precautions and label restrictions on those product labels and the label of this product. Follow the label, and all label restrictions when applying tank-mixtures.

Flue Cured Tobacco

Remove all suckers over one-half inch in length. Spray the plants within 24 hours and before Tobacco suckers reach one inch in length. Following two applications of a contact fatty alcohol sucker control agent such as Sucker-Plucker®, and 5 to 7 days after the second contact fatty alcohol application, apply 3 gallons of this product plus 2 quarts of Drexalin Plus in sufficient water totaling a minimum of 50 gallons of water per acre.

Burley, Dark, Maryland, and Cigar Tobacco

Remove all suckers over one-half inch in length. Spray the plants within 24 hours after topping and before suckers reach one inch in length. At the early button stage and 5 to 7 days after application of a contact fatty alcohol sucker control agent such as Sucker-Plucker, apply 3 gallons of this product plus 2 quarts of Drexalin Plus in sufficient water totaling a minimum of 50 gallons per acre.

For compressed air shoulder sprayers, use 23 fluid ounces of this product and 3.75 fluid ounces of Drexalin Plus per 3 gallons of water. Agitate the emulsion well before spraying. Apply at a rate of 3 gallons of diluted emulsion per 667 plants, carefully shaking and agitating the solution from time to time during spraying.

USE PRECAUTION

Do not use contact fatty alcohols, maleic hydrazide or any products unless they are EPA registered and labeled for Tobacco sucker control.

Make sure the content of this product is well-mixed and shaken before measuring.

NOTES:

1. Mix well prior to use and, if allowed to stand during the use, mix again before applying since the diluted emulsion may separate on standing.
2. Do not apply on Burley tobacco during peak temperatures or under conditions that favor the spread of hollow stalk or stem rot diseases.
3. Be sure that all spray equipment has been carefully cleaned prior to using. Do not contaminate water by cleaning of equipment or disposal of wastes.
4. Do not allow drift to nearby crops.
5. Usage according to outlined directions has resulted in excellent sucker control. Application not in compliance with directions may lead to crop injury or insufficient sucker control.
6. Closely hand-suckered or Tobacco treated with this product will not ripen as rapidly as poorly suckered Tobacco. Also, under some conditions, tips treated with this product have a tendency to turn yellow prematurely. This is not harmful and does not mean that your Tobacco is ripe. Therefore, do not harvest Tobacco treated with this product by using time and color of the leaves as your only guide to ripeness. Use other characteristics indicative of ripeness such as (a) fading of color from midrib, and (b) change in apparent leaf texture.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

STORAGE: Storage should be under lock and key in a ventilated room and secure from access by unauthorized persons and children. Storage should be in a cool, dry area away from any heat or ignition source. Do not stack containers over 2 pallets high. Move containers by handles or cases. Do not move containers from one area to another unless they are securely sealed. Keep containers tightly sealed when not in use. Keep away from any puncture source. Avoid storage near water supplies, food, feed and fertilizer to avoid contamination. Avoid contamination with oxidizing materials. Store in original containers only. If the contents are leaking or material is spilled, follow these steps:

1. Contain spill. Absorb with a material such as sawdust, clay granules or dirt.
2. Collect and place in suitable containers for disposal.
3. Wash area with soap and water to remove remaining pesticide.
4. Follow washing with clean water rinse.
5. Place a leaking container in plastic tub and transfer contents, as soon as possible, to an empty, original container.
6. Do not allow runoff to enter sewer or contaminate water supplies.
7. Dispose of waste as indicated below:

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

(Continued)

(Continuation)

Refillable Co CONTAINER HANDLING:

Nonrefillable Container (rigid material; less than 5 gallons): Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container 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 one-fourth 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. Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

Nonrefillable Container (rigid material; 5 gallons up to < 250 gallons): Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container one-fourth full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Dispose of empty container in a sanitary landfill or by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

ntainer (≥ 250 Gals. & Bulk): Refillable container. Refill this container with pesticide only. Do not reuse 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% full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

WARRANTY—CONDITIONS OF SALE

OUR DIRECTIONS FOR USE of this product are based upon tests believed reliable. Follow directions carefully. Timing and method of application, weather and crop conditions, mixtures with other chemicals not specifically recommended and other influencing factors in the use of this product are beyond the control of the Seller. To the extent consistent with applicable law, Buyer assumes all risks of use, storage and handling of this material not in strict accordance with directions given herewith. To the extent consistent with applicable law, in no case shall the Manufacturer or the Seller be liable for consequential, special or indirect damages resulting from the use or handling of this product when such use and/or handling is not in strict accordance with directions given herewith. The foregoing is a condition of sale by the Seller and is accepted as such by the Buyer.

Manufactured By:



Drexel Chemical Company

P.O. BOX 13327, MEMPHIS, TN 38113-0327

SINCE 1972

LEVEN-38, SUCKER-PLUCKER, DREXALIN and the Drexel logo are registered trademarks of Drexel Chemical Company.