



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (871050)
401 "M" St., S.W.
Washington, D.C. 20460

EPA Reg. No.
Number:

73631-2

DEC 21 2001

NOTICE OF PESTICIDE:
☒ Registration
Reregistration

under FIFRA, as amended

Term of Issuance:

Conditional

Name of Pesticide Product:

Flupro-EC

Name and Address of Registrant (include ZIP Code):

SRM Chemical, Ltd. Co.
3027 Marina Bay Drive, Suite 110
League City, Texas 77573

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.
2. Make the changes to the label that are listed below before you release the product for shipment:
 - a. Revise the EPA Registration Number to read "EPA Reg. No. 73631-2".
 - b. In the "Applicators and Other Handlers Must Wear:" section of the "PERSONAL PROTECTIVE EQUIPMENT:" section change "Coveralls over short-sleeved shirt and short pants..." to "Long-sleeved shirt and long pants...".
 - c. In the Applicators and Other Handlers Must Wear:" section of the "PERSONAL PROTECTIVE EQUIPMENT:" section, immediately following "...chemical-resistant gloves" add "made of any waterproof material".

Signature of Applicant/Registrant:

(S)

Date:

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- d. In the last sentence in the "AGRICULTURAL USE REQUIREMENTS" box, add "made of any waterproof material" immediately following "...chemical-resistant gloves".
3. Submit the Storage Stability (Guideline Requirement No. 830.6317) and Corrosion Characteristics (Guideline Requirement No. 830.6320) studies by December 31, 2002.
4. Submit one copy of your final printed label before you release this product for shipment. Refer to the A-79 Enclosure for a further description of final printed labeling.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA Section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label and of the latest Technical Review Branch Product Chemistry review are attached. If you have any questions about this letter, please contact John Bazuin at (703)305-7381.

Attachments: Product label, stamped "Accepted with Comments"
A-79 Enclosure

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Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under EPA Reg. No.

73631-2 73631-2

FLUPROTM-EC

FOR CONTROL OF SUCKERS ON TOBACCO

Net contents:

COMPOSITION

Active Ingredient: (% by weight)
flumetralin (2-chloro-N-[2,6-dinitro-4-(trifluoromethyl)phenyl]-N-ethyl-6-
fluorobenzenemethanamine) 13.7%*
Other Ingredients** 86.3%
Total: 100.0%

*contains 1.2 lb. active ingredient per gallon, or 144 grams active ingredient per liter

**contains petroleum distillate

KEEP OUT OF REACH OF CHILDREN

WARNING • AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

FIRST AID

- | | |
|----------------------------------|---|
| IF ON SKIN OR ON CLOTHING | <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. |
| IF SWALLOWED | <ul style="list-style-type: none">• Immediately call a poison control center or doctor.• Do not induce vomiting unless told to do so by a poison control center or doctor.• Do not give any liquid to the person.• Do not give anything by mouth to an unconscious person. |
| IF IN EYES | <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. |

NOTE TO PHYSICIAN: Contains petroleum distillate. Vomiting may cause aspiration pneumonia. Probable mucosal damage may contraindicate the use of gastric lavage.

EMERGENCY ASSISTANCE: Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

EMERGENCY PHONE	281-335-3646
SAFETY DATA AND INFORMATION	281-335-3646
TRANSPORTATION EMERGENCY (CHEMTREC)	800-424-9300

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS WARNING • AVISO

Causes skin irritation. Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Do not get on skin or on clothing. Avoid contact with eyes. Prolonged or repeated skin contact may cause allergic reaction in some individuals. Wash thoroughly with soap and water after handling.

PERSONAL PROTECTIVE EQUIPMENT:

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category G on an EPA chemical resistance category selection chart.

Applicators and Other Handlers Must Wear: Coveralls over short-sleeved shirt and short pants; chemical-resistant gloves, such as nitrile, butyl, Neoprene or barrier laminate; chemical-resistant footwear plus socks.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-5)], the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

ENVIRONMENTAL HAZARDS

This product is toxic to fish. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water by disposal of equipment washwaters.

Use coarse spray only, directed down tobacco stalk. Do not use fine sprays. Avoid drift to adjacent crops as injury may result.

PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame. Store at temperatures above 32°F.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read all label directions carefully before use.

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, 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 enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: long-sleeved shirt and long pants; chemical-resistant gloves, such as nitrile, butyl, Neoprene, or barrier laminate; chemical-resistant footwear plus socks; protective eyewear (goggles, face shield or safety glasses).

FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS CONTAINED IN THIS LABEL MAY RESULT IN POOR SUCKER CONTROL AND/OR CROP INJURY.

FOR USE ON TOBACCO

FLUPRO-EC Sucker Control is a plant growth regulator for control of suckers on flue-cured, burley, Maryland, and cigar tobacco.

Read this label carefully and observe all directions and precautions. FLUPRO-EC mixes readily with water to form a yellow, creamy emulsion. If a spray mixture is allowed to stand several hours, agitate thoroughly before resuming treatments.

Note: Do not mix FLUPRO-EC with insecticides or fungicides.

See APPLICATION NOTES for additional important information.

APPLICATION EQUIPMENT

FLUPRO-EC may be applied with motorized field sprayers (high-clearance or tractor-mounted) equipped with solid-cone nozzles that deliver a coarse spray. For example, a three solid-cone nozzle arrangement directed over the row, operating at 20 to 25 pounds per square inch (psi), delivers a coarse spray that runs down the stalk and wets suckers in the leaf axils.

This product may also be applied to individual plants by using a hand-held dropline, a knapsack sprayer, or jug application.

All sprayers should be equipped with a pressure regulator and pressure gauge.

TIMING OF APPLICATION

ON FLUE-CURED TOBACCO, apply FLUPRO-EC 5 to 7 days after the last fatty alcohol contact treatment.

ON AIR-CURED (BURLEY, MARYLAND, CIGAR) TOBACCO, FLUPRO-EC may be applied just before or immediately after topping. If this product is applied after topping, apply within 24 hours of topping.

Top leaves to be harvested should be at least 8 inches long at treatment time. All suckers greater than 1 inch long should be removed by hand prior to treating with this product. Any suckers that were shielded and escaped treatment should be removed by hand two to three weeks after treatment.

Sucker control may not be consistent within a field if tobacco plants are not uniform when treated. In fields where a contact material (fatty alcohol) has not been used and a wide range of flowering exists, early flowering plants should be topped and suckers removed by hand. Then, when most plants are in the elongated button to early flower stage, remove all suckers one inch or longer from all plants, and then apply FLUPRO-EC. If this product is applied using precision hand application, early flowering plants can be topped and treated selectively; later flowering plants can be topped and treated as they reach the proper treatment stage; and a contact may not be needed.

METHOD AND RATE OF APPLICATION

Apply this product alone or in a tank mix with ROYAL MH-30[®] or other maleic hydrazide product. Consult with your local Extension Service tobacco specialist for recommended treatment in your area. For all application methods, excess mixture should not be allowed to reach the ground line and puddle around the base of each plant.

A. TANK MIXES WITH ROYAL MH-30 or other maleic hydrazide product.

Before using any tank mix combination, carefully read and follow the label directions of all products used.

Mix 2 quarts of FLUPRO-EC with 1/2 to full rate of ROYAL MH-30 (or other maleic hydrazide product), in sufficient water to total 50 gallons. Remove all suckers one inch long or longer and apply at the recommended time for application of maleic hydrazide. Apply the mixture as a coarse spray at a volume of 50 gallons/A with a spray pressure maintained at 20 to 25 psi. For best results, follow precautions and restrictions on the FLUPRO-EC and maleic hydrazide labels.

Application sequence: (1) Apply contact material according to its label directions. (2) After removing all suckers one inch long or longer, apply the tank mix of FLUPRO-EC and maleic hydrazide at the timing suggested on the maleic hydrazide product label. (3) Make only one application of the tank mixture of FLUPRO-EC plus maleic hydrazide per tobacco crop.

B. SEQUENTIAL TREATMENT PROGRAMS

WHEN APPLIED BEFORE MALEIC HYDRAZIDE TREATMENT:

Apply 2 quarts of this product in 49.5 gallons of water per acre at the elongated button to early flower growth stage. Apply as a coarse spray. Top leaves to be harvested should be at least 8 inches long at treatment time. Five to seven days later, apply ROYAL MH-30 or other maleic hydrazide product according to label directions, precautions and restrictions.

WHEN APPLIED AFTER MALEIC HYDRAZIDE TREATMENT:

Apply the regular schedule of contact sucker chemicals. Follow with ROYAL MH-30 or other maleic hydrazide product according to label directions, precautions and restrictions. About 3 weeks later, remove all suckers one inch long or longer and apply FLUPRO-EC at 2 quarts in 49.5 gallons of water per acre. Apply as a coarse spray to get rundown on the stalk. To increase effectiveness for extended control, you may add a commercial non-ionic surfactant similar to X-77® or R-11® at the rate of 1 quart per 100 gallons of spray solution (0.25%). The commercial surfactant must be cleared for application to growing crops.

®X-77 is a registered trademark of Loveland Industries, Inc.

®R-11 is a registered trademark of Wilbur-Ellis Company

C. USED ALONE

One application of FLUPRO-EC will provide full season control of excessive sucker development in tobacco. Remove all suckers one inch long or longer before application.

WHEN USING MOTORIZED SPRAYERS OR HAND-HELD DROPLINES, mix 1 gallon FLUPRO-EC in 49 gallons of water and apply at a rate of 30 to 50 gallons spray volume per acre. Use the higher spray volume in tall types of tobacco, such as flue-cured, burley, Maryland, and cigar. Use the lower spray volume only in short types of tobacco, such as dark. Apply only once per season. Spray volume should be sufficient to run down the stalk, contacting each leaf axil and just reach the ground line. Excessive spray volume beyond the point of runoff to the soil may result in carryover injury to rotational crops.

Apply FLUPRO-EC as a coarse spray directed downward to the top of the tobacco stalk. With motorized sprayers, this is best accomplished with 3 full cone nozzles per row; one nozzle directed downward over the center of the row and one 7 to 9 inches to each side of the center, directed at the top of the stalk. Maintain nozzles at a height of 12 to 18 inches above the top of the stalk during application. Maintain boom pressure at 20 to 25 psi, not exceeding 30 psi.

WHEN APPLYING THIS PRODUCT USING THE KNAPSACK SPRAYER OR JUG METHOD, mix 2.5 fluid ounces of FLUPRO-EC per gallon of water and apply about one-half fluid ounce of spray mixture per plant. Apply the spray mixture at a rate sufficient to run the stalk, contacting each leaf axil and just reach the ground line. Excessive spray volume may result in carryover injury to rotational crops. Do not exceed 30 gallons spray volume per acre when using hand application methods. One gallon of spray mixture should treat about 250 plants.

APPLICATION NOTES

1. Apply FLUPRO-EC only once per tobacco crop, whether in tank-mix combination, in sequence, or alone. Do not mix with insecticides or fungicides.
2. Carefully follow the use rates and spray volume recommended, and spray field uniformly. Volume should be sufficient to run down the stalk, contact the leaf axil, and just reach the ground line.
3. This product is most effective when the spray contacts the sucker buds directly. In fields where tobacco plants are lodged or leaning, plants should be straightened prior to treatments, so spray mixture runs down the stalk evenly and contacts all sucker buds. FLUPRO-EC will not control large suckers. **All suckers one inch or longer on all plants must be removed before application.** Suckers that escape treatment should be removed by hand about two to three weeks after application.
4. Timing is important. For best results, applications should be made at timing described above. Applications made before the elongated button stage of growth may result in chemical topping or distortion of leaves that were too immature at time of application. Immature leaves that are less than 8 inches long at the time of treatment with this product may develop cupped or curled appearance. Spraying too late may result in poor sucker control.
5. Rain occurring more than **two hours** after FLUPRO-EC treatments should not affect the effectiveness of this product. Refer to labels of tank mix partner products for any additional rain-free precautions.
6. Applying treatments to wet plants immediately after heavy rain or when there is heavy dew is not recommended.
7. Plants that are under drought stress when treated may not respond to sucker control products properly.
8. Applying treatments on windy days is not recommended, as sprays may not be deposited uniformly on the leaf axils and sucker buds.

IMPORTANT PRECAUTIONS

To avoid illegal residues and possible injury to rotational crops planted in the autumn or following spring, do not apply excessive spray volume to the point of runoff onto the soil. FLUPRO-EC residues in the soil may interact with dinitroaniline herbicides (such as Trellan®, Prowl®, Paarlant®, or Balan®) to increase early season stunting. Thorough disking and deep tillage in the autumn are recommended where an excessive amount of FLUPRO-EC may have reached the soil.

When tobacco is in a state of very rapid, succulent growth, due to high nitrogen and rainfall, FLUPRO-EC may cause crop injury. Under these conditions, use only by hand application (e.g., hand-held dropline, knapsack sprayer, or jug application), and avoid contacting the leaves with the spray solution.

Balan®, Paarlant®, and Trellan® are registered trademarks of Dow AgroSciences
Prowl® is a registered trademark of BASF Agro-Research

STORAGE AND DISPOSAL

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

STORAGE: Do not store near fertilizers, seeds, insecticides or fungicides. Store in original container only. After partial use, replace lid and close tightly. Store in a secure place that is temperate and dry. Store at temperatures above 32°F.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Plastic Containers: Triple rinse (or equivalent). Pressure rinse is preferred. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

For minor spills, leaks, etc., follow all precautions provided in this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup and disposal of wastes. In the event of a major spill, fire, or other emergency, call 1 (281) 335-3646.

IMPORTANT NOTICE—Seller warrants that this product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with the directions and instructions specified on the label under normal conditions of use, but neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use of this product, contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of any such use.

™FLUPRO is a trademark of SRM Chemical Ltd. Co.

®MH-30 is a Registered Trademark of Uniroyal Chemical Company, Inc.

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U.S. Patent Nos. 6,018, 079 and 6,137,009