



February 7, 1984

T-1-242

FOOD PRODUCTION AND
INSPECTION BRANCH

DIRECTION GENERALE,
PRODUCTION ET INSPECTION
DES ALIMENTS

SECTION
PESTICIDES

TRADE MEMORANDUM

RE: RATES AND LABELLING REQUIREMENTS FOR METERED PYRETHRIN PRODUCTS

Pyrethrin products designed for use in Automatic (Timed) metered dispensers have recently undergone a special review. The purpose of this memorandum is to inform registrants of the approved rates and labelling requirements for this type of product.

The original metered products were formulated with fluorocarbons as propellants. They had a delivery rate of 100 mg of formulation/15 minute interval and were designed to deliver at least 3000 metered sprays.

Hydrocarbon formulations which have a lower specific gravity are now being introduced. The basic mechanics of the devices have not changed significantly, the volume of formulation released is the same; but the weight is lower to maintain the (accepted) amount of active released per emission and the number of sprays, the concentration of pyrethrins has been increased.

A number of formulations (pyrethrins, piperonyl butoxide, NCK 264) at specific application rates (see below) are adequately supported by safety and efficacy data to permit use of metered devices in various locations including food processing plants and food service establishments while they are in operation.

The following are accepted formulation and rates of application:

| PROPELLANT | PYR | PBU | MCK | RATE |
|-----------------|------|------|-----|---|
| a) Fluorocarbon | 0.9% | 9.0 | - | 100 mg/15 min (=50 mg/7.5 min) |
| b) Fluorocarbon | 0.9% | 1.8 | 3.2 | 100 mg/15 min. |
| c) Hydrocarbon | 1.8% | 10.0 | - | 50-55 mg/15 min (=25-27.5 mg/7.5 min.) |
| d) Hydrocarbon | 1.8% | 3.6 | 6.0 | 50-55 mg/15 min. |

The following restrictions and labelling requirements apply:

All metered sprays are COMMERCIAL class products. Metered products which conform to the above rates may be used in food processing plants while they are operating. However, if use in meat packing or meat processing plants is desired the standard precautionary statements (see following) are required:

"In meat packing plants, spray only when the plant is not in operation. No exposed meat products, ingredients or packaging materials may be kept in the room. Cover food handling equipment. Any treated surfaces that may contact meat food products should be washed and rinsed thoroughly with potable water after spraying and before re-use for meat processing."

Products are designed to treat areas of 170 cubic metres of free-flow air space. This must be stated in the directions when describing use areas.

Use in schools or homes is not permitted.

Hospital use claim is acceptable providing the standard caution, "Do not use in nurseries or rooms where infants ill or aged persons are confined", is included.

The front panel of the label must include the pests to be controlled and the use areas "To control... For use in ". If use areas cannot be detailed on the front panel, reference shall be made to the use areas being outlined under "Directions" on the side panel.

Metered products are either aerosols or pressurized sprays and must be identified as such on the front panel. The proper warning labels and the cautionary statement:

Contents under Pressure: Container may explode if heated. Do not expose to temperatures above 50 degrees C. Do not puncture or incinerate must be included.

The number of sprays per can or the number of days of protection guaranteed should be detailed on the label.

Under Directions, the standard instructions are "Remove protective cap from top of can and insert can in special automatic dispenser. Place dispenser/actuator 2-3 meters above floor at point where air circulation will carry particles throughout the area."

The specific gravity of the formulation, the type of propellant and/or the metered chamber and/or nozzle size are important for the release of the dose. We will require technical information on your metered device, especially concerning the operation of the nozzle or metered chamber.

Consult draft label attached for generalized format and additional cautionary statements etc.

S.W. Ormrod
Director
Pesticides Division
Distribution RG (b) (c), KP, KR, PP, PW, PX
Provincial Ministers of Health and Welfare

Metered Pressurizes Spray

PRIMARY PANEL

Product Name

COMMERCIAL

Metered Pressurized Spray

Use Areas (name areas) (May refer to Side Panel)

To Control...(name Pests)

READ THE LABEL BEFORE USING

GUARANTEE: PYRETHRINS X%
IPERONYL BUTOXIDE X%
(MGK 264 X%)

REGISTRATION NO. _____ PEST CONTROL PRODUCT ACT

SYMBOLS AND PRECAUTIONARY WORDING

NET CONTENTS

Company Name and Postal Address

SECONDARY PANEL

Product x is designed for use in automatic dispensers (can name a specific kind). The automatic dispenser releases a metered dose of x mg of insecticide at x minute intervals. For control of ... (name pests)... in (name use areas). Each can contains enough product to protect an area of at least 170 m³ of free air space for up to 30 hours.

DIRECTIONS: Remove protective cap from top of can and insert can into special automatic dispenser. Place dispenser 2-3 metres above floor at a point where air flow will carry insecticide throughout the area. Do not install directly over food or food packaging surfaces.

PRECAUTIONS: In meat packing plants, spray only when plant is not in operation. No exposed meat products ingredients or packaging materials may be left in the room. Cover food handling equipment. Any treated surface that may contact meat products should be washed and rinsed thoroughly with potable water after spraying and before re-use for meat processing. Contents under pressure. Container may explode if heated. Do not expose to temperatures above 50 degrees C. Do not puncture or incinerate. KEEP OUT OF REACH OF CHILDREN. Avoid contact with skin and inhalation of spray mist. Wash after using. Contents toxic to fish and birds. Do not contaminate food, feed or water. Do not install directly over polished plastic or varnished surfaces (Additional cautionary statements may be required depending on use areas). Dispose of empty container with regular garbage.

FIRST AID: In case of contact with eyes or skin, flush with water. If irritation persists, seek medical attention. If accidentally swallowed, seek medical attention at once

NOTICE TO USER: (standard statement)

LIMITATION OF WARRANTY: (Optional - use standard statement)

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