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| GROUP | 4 | INSECTICIDE |
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VAULT 50 FS INSECTICIDE SEED TREATMENT

For the control of Flea Beetles in Canola and Yellow and Brown Mustard
as well as Oriental Mustard (condiment and oilseed types)

Contains Acetamiprid

AGRICULTURAL

Suspension

GUARANTEE: Acetamiprid.....500 g /L

REGISTRATION No. 28119

PEST CONTROL PRODUCTS ACT

CAUTION



POISON
EYE IRRITANT

READ THE LABEL BEFORE USING

KEEP OUT OF REACH OF CHILDREN

SPECIAL USE RESTRICTION:

For commercial seed treatment only. Do not use in hopper box, planter box, slurry box or other seed treatment equipment applications at, or immediately before, planting. All seed treated with this product must be conspicuously coloured at the time of treatment.

Nippon Soda Co., Ltd.
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Chiyoda-ku, Tokyo 100-8165
Japan

D. W. Latter & Associates.
44 Tamarack Circle
Toronto, ON
M9P 3T9
416 614-6769

IN CASE OF SPILLS, POISONING OR FIRE TELEPHONE EMERGENCY
RESPONSE NUMBER 800-424-9300 (24 HOURS A DAY).

NET CONTENTS: 45-225 Litres

PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN. Keep out of reach of domestic animals. Do not store VAULT 50 FS Insecticide Seed Treatment near feed or foodstuffs. Do not contaminate feed or foodstuffs. Do not graze crop from treated seed.

Harmful if inhaled, swallowed or absorbed through the skin. Avoid breathing vapors or spray mist. Avoid contact with eyes, skin or clothing. All workers must wear chemical-resistant coveralls over long-sleeved shirt and long pants, chemical-resistant gloves, socks and shoes. In addition, mixer, loader, and treaters must wear a respirator with either a NIOSH/MSHA/BHSE approved organic-vapour-removing cartridge with a prefilter approved for pesticides, OR a NIOSH/MSHA/BHSE approved canister approved for pesticides. Wear a dust filtering half-face respirator (NIOSH/MSHA approval number prefix TC-21C), OR a NIOSH approved respirator with any N, R, P or HE filter, when bagging or sewing bags of treated seed or when transferring seed to a storage bin or to a hopper, tending planting equipment containing treated seed, and for clean-up and repair.

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/maintaining Personal Protective Equipment (PPE). If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

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. Remove personal protective equipment immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

As this product is not registered for the control of pests in aquatic systems, DO NOT use to control aquatic pests.

Do not contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

If this product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's website at www.croplife.ca

ENVIRONMENTAL HAZARDS:

TOXIC to aquatic organisms and to non-target terrestrial plants.

TOXIC to bees exposed to direct treatment, drift, or residues on flowering crops or weeds.

This product is toxic to birds when used as a seed treatment. Do not expose treated seeds on soil surface. Any spilled or exposed seeds should be incorporated into the soil or otherwise cleaned up from the soil surface.

FIRST AID:

Contact a physician immediately in all cases of suspected poisoning. Transport patient to a physician or hospital immediately taking the container label or product name and Pest Control Product Registration Number with you when seeking medical attention.

IF SWALLOWED: Call a poison control centre 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 centre or doctor. Do not give anything by mouth to an unconscious person.

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 centre or doctor for treatment advice.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 minutes. Call a poison control centre or doctor for treatment advice.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

TOXICOLOGICAL INFORMATION:

There is no specific antidote. All treatment should be based on observed signs and symptoms of distress in the patient.

STORAGE CONDITIONS:

Do not store in or around the home. Store unused product in a cool, ventilated, dry, locked area. Do not allow prolonged storage in areas where temperatures frequently exceed 46°C (115°F). Never transfer this product to another container for storage. To prevent contamination store this product away from food or feed.

DISPOSAL:

For recyclable containers

DO NOT reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or

municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

For returnable containers

DO NOT reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

For containers that can be refilled for the user by the distributor/dealer

For disposal, this container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. Do not reuse this container for any other purpose.

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

DIRECTIONS FOR USE:

VAULT 50 FS Insecticide Seed Treatment is a systemic seed treatment insecticide for the protection of canola and mustard seedlings [Yellow and Brown Mustard as well as Oriental Mustard (condiment and oilseed types)] against flea beetles.

APPLICATION RATE:

For early season control of flea beetles, apply VAULT 50 FS Insecticide Seed Treatment to canola and mustard seed at rates of 5 to 10 mL product per kg of seed (2.5 to 5 g ai/kg seed).

For high pest pressure where extended protection from flea beetles is required, use the higher rate.

A maximum volume of 80 L of product, per person, per day, may be used to treat seed in a commercial seed treatment facility.

METHOD OF APPLICATION:

VAULT 50 FS Insecticide Seed Treatment is to be used only in commercial seed treatment facilities with closed transfer, including closed mixing, loading, calibrating, and closed treatment equipment. Seed should be well-conditioned and free of chaff before treating with VAULT 50 FS Insecticide Seed Treatment. Apply VAULT 50 FS Insecticide Seed Treatment to seed slowly in a calibrated seed treating equipment system to ensure proper rates. Thorough seed coverage is required. Compatibility with seed treatment polymers and additional seed colourants should be determined with VAULT 50 FS Insecticide Seed Treatment prior to application.

VAULT 50 FS Insecticide Seed Treatment can be used alone or with Foundation Lite fungicide seed treatment on canola and mustard.

The two products can be applied in one of the following ways:

1. Each product is delivered separately to the seed treatment application chamber and applied separately and then mixed with the seed.
2. The products are slurried together in a pre treatment tank – no additional water is required.
3. The products can be applied individually in two separate application processes.

The application rate for Foundation Lite Canola and Mustard Seed Treatment is 22.5 mL/kg of seed. Refer to the Foundation Lite Canola and Mustard Seed Treatment label for additional use instructions and precautions and follow the more stringent of the two.

Do not use in hopper box, planter box, slurry box or other seed treatment equipment applications at, or immediately before, planting.

COMPATIBILITY:

It is recommended that compatibility of seed treatment polymers and additional seed colourants be verified by mixing all premix components (pre-measured at or near planned application rates) into a small jar prior to mixing larger quantities in commercial applicator equipment. After shaking or mixing the contents, the contents should be homogenous and there should be no signs of agglomeration, separation, or other obvious indication of incompatibility.

SEED COLORATION:

Users are responsible for ensuring that the treated seed, when dried and ready for bagging, has an unnatural color. If the pigment contained in the formulation does not adequately color the seed, additional colorant must be added to the slurry mixture while treating the seed. Regulations pertaining to coloration of treated seed enforced under the *Seeds Act (Section 16)* must be strictly adhered to when using this product.

SEED LABELING:

All bags containing treated seed must be labeled or tagged as follows:

- This seed has been treated with VAULT 50 FS Insecticide Seed Treatment containing acetamiprid.
- Planters and others handling treated seed must wear coveralls over long-sleeved shirt, long pants, socks and shoes, and chemical-resistant gloves. In addition, wear a dust filtering half-face respirator (NIOSH/MSHA approval number prefix TC-21C), or a NIOSH approved respirator with any N, R, P or HE filter, when transferring seed to a storage bin or to a hopper, tending planting equipment filled with treated seed, and for clean-up and repair. During planting, chemical-resistant gloves and NIOSH/MSHA approved dust-filtering mask must be available.
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- • The amount of treated seed planted per day is restricted to:
 - 1200 kg seed at the application rate of 2.5 g acetamiprid / kg seed; or
 - 600 kg seed at the application rate of 5.0 g acetamiprid / kg seed.
- Thoroughly clean auger after handling treated seed before using the same auger for handling commercial or feed grains.
- DO NOT use for food, feed or oil processing.
- Store away from food and feed.
- Unused or leftover treated seed should not be stored where there is a chance of it becoming mixed with untreated seed.
- Unused or leftover treated seed which is intended to be stored and used in the following season should have the germination and seedling vigor confirmed prior to planting.
- Date of treatment: _____

RESISTANCE MANAGEMENT RECOMMENDATIONS:

For resistance management, please note that VAULT 50 FS Insecticide Seed Treatment contains a Group 4 insecticide. Any insect population may contain individuals naturally resistant to this product and other Group 4 insecticides. The resistant individuals may dominate the insect population if this group of insecticides is used repeatedly in the same fields. Other resistance mechanisms that are not linked to site of action, but are specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance management strategies should be followed.

To delay insecticide resistance:

- Where possible, rotate the use of VAULT 50 FS Insecticide Seed Treatment or other Group 4 insecticides with different groups that control the same pests in a field.
- Use tank mixtures with insecticides from a different group when such use is permitted.
- Insecticide use should be based on an integrated pest management (IPM) program that includes scouting and record keeping and considers cultural, biological, and other chemical control practices;
- Monitor treated pest populations for resistance development.

- Contact the local extension specialist or certified crop advisors for any additional pesticide resistance-management and IPM recommendations for the specific site and pest problems in the area.
- For further information or to report suspected resistance, contact Nippon Soda Co., Ltd. c/o Nisso America Inc. at 212-490-0350.

USE RESTRICTIONS AND PRECAUTIONS:

- This product may be toxic to birds when used as a seed treatment. Do not expose treated seeds on soil surface.
- Thoroughly clean auger after handling treated seed before using same auger for handling commercial or feed grains.
- Store treated seed in cool, dry conditions.
- Unused or leftover treated seed should not be stored where there is a chance of it becoming mixed with untreated seed.
- Unused or leftover treated seed that is intended to be stored and used in the following season should have the germination and seedling vigor confirmed prior to planting.

NOTICE TO USER: This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

[Seed Bag Labeling]

This seed is treated with

Vault 50 FS
Insecticide Seed Treatment
Suspension

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AGRICULTURAL

READ THE LABEL BEFORE USING
KEEP OUT OF THE REACH OF CHILDREN

GUARANTEE: Acetamiprid 500 g/L

For the Control of Flea Beetles in
Canola and Mustard

CAUTION



POISON
EYE IRRITANT

NET CONTENTS: 45-225 L

- Planters and others handling treated seed must wear coveralls over long-sleeved shirt, long pants, socks and shoes, and chemical-resistant gloves, and a dust filtering half-face respirator (NIOSH/MSHA approval number prefix TC-21C), or a NIOSH approved respirator with any N, R, P or HE filter, when transferring seed to a storage bin or to a hopper, tending planting equipment filled with treated seed, and for clean-up and repair. While driving planting equipment, chemical-resistant gloves and respirator must be available.
- Thoroughly clean auger before using the same auger for handling commercial or feed grains.
- **DO NOT USE FOR FOOD, FEED OR OIL PROCESSING.**
- Store away from food and feed.
- Unused or leftover treated seed should not be stored where there is a chance of it becoming mixed with untreated seed.
- Unused or leftover treated seed which is intended to be stored and used in the following season should have the germination and seedling vigor confirmed prior to planting.

The amount of treated seed planted per day is restricted to:
1200 kg seed at the application rate of 2.5 g acetamiprid / kg seed; or
600 kg seed at the application rate of 5.0 g acetamiprid / kg seed

Date of Treatment: _____

REGISTRATION NO. 28119
PEST CONTROL PRODUCTS ACT

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