

88.03.17

FOLITHION

LIQUID CONCENTRATE

INSECTICIDE

Contains fenitrothion

RESTRICTED

FOR USE IN FORESTS, WOOD LOTS, TREE NURSERIES AND CHRISTMAS TREE PLANTATIONS FOLLOWING CONSULTATIONS WITH FEDERAL AND PROVINCIAL FORESTRY REGULATORY OFFICIALS AND IN ACCORDANCE WITH THEIR DIRECTIONS.

GUARANTEE: Fenitrothion ... 1.25 kg/L

REGISTRATION NO: 10,776
PEST CONTROL PRODUCTS ACT

DANGER

POISON

KEEP OUT OF REACH OF CHILDREN

(See rear panel for first aid and additional precautions)

READ THE LABEL BEFORE USING

IF PROLONGED STORAGE IS ANTICIPATED CONTAINER SHOULD BE PROTECTED FROM RAIN AND SNOW, HOWEVER, THE PRODUCT DOES NOT NEED TO BE PROTECTED FROM FREEZING TEMPERATURES.

NET CONTENTS 188 LITRES
NET WEIGHT 250 KILOGRAMS

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Mississauga, Ontario, Canada L4Z 1S6

NOTICE TO USER: This control product is to be used only in accordance with the directions on this label. It is an offence under the PEST CONTROL PRODUCTS ACT to use a control product under unsafe conditions.

RESTRICTED USES

NATURE OF RESTRICTION: This product is to be used only in the manner authorized. Consult local pesticide regulatory authorities about use permits which may be required. FOR USE ONLY IN FORESTRY FOLLOWING CONSULTATION WITH FEDERAL AND PROVINCIAL FORESTRY REGULATORY OFFICIALS AND IN ACCORDANCE WITH THEIR DIRECTIONS.

DIRECTIONS FOR USE

FOLITHION Liquid Concentrate Insecticide provides control of the larval stages of spruce budworm, eastern hemlock looper, western hemlock looper, sawflies, cankerworm and jackpine budworm infesting forests, wood lots, tree nurseries and Christmas tree plantations.

RECOMMENDED APPLICATIONS

DOSAGE: Apply FOLITHION Liquid Concentrate at the rate of 111 to 222 mL of product (140 to 280 g active) per hectare. Use no more than 222 mL product (280 g active)/ha for any one application and a total of 333 mL product (420 g active)/ha if applied in two treatments. Where two applications are made, there should be an interval of at least 5 days between applications. Under special local conditions such as rapid larval development, a 3 day interval may be considered by provincial regulatory authorities.

Spruce budworm: Apply by aircraft as a low volume or ultra low volume spray in sufficient water or oil for good coverage.

Folithion may be applied undiluted; through U.L.V. equipment such as Micronaire AU 3000 or Beekomist atomizers.

NOTE: Consult federal and provincial forestry regulatory officials for specific recommendations regarding:

1. Timing of application with regard to the development of the insect pest.
2. Mixing and application of this product in your spray equipment.

Eastern hemlock looper, Western hemlock looper, sawflies, cankerworm, jackpine budworm: Apply by aircraft as a low volume or ultra low volume spray in sufficient water or oil for good coverage. Make

a single application of 222 mL product/ha or two applications 4 to 6 days apart of 111 to 167 mL product each per hectare. For hemlock looper, apply before the fourth instar. For Jackpine budworm, apply between the second and fourth instars. For sawflies or fall cankerworm, apply as soon as the larvae appear. For Swaine jackpine sawfly, apply at the peak of emergence of the second instar.

LIMITATIONS: Make no more than 2 applications per season per site.

MIXING: Do not mix this product with any materials other than those listed below. Fine spray mixtures should be thoroughly agitated before use to ensure homogeneous mixture.

UNDILUTED: Mix 40% technical fenitrothion with 60% Dowanol TPM and apply at a rate of 0.4 L/ha.

WITH OIL: Dowanol TPM or Cyclosol 63 may be used alone as solvents or in combination with a suitable diluent oil such as Insecticide Diluent 585 (contact Chemagro Limited for specifications).

Proportions of these components of the tank-mix for applying 167 mL (210 g A.I. or 222 mL (280 g A.I.) in the specific volume per ha are as follows:

	167 mL in 1.5 L/ha % by Volume		167 mL in 0.75 L/ha % by Volume		222 mL in 1.5 L/ha % by Volume		222 mL in 0.75 L/ha % by Volume	
Folithion Liquid Concentrate	11	11	22	22	15	15	30	30
Cyclosol 63	40	--	78	--	45	--	70	--
Dowanol TPM	--	45	--	78	--	50	--	70
Insecticide Diluent 585	49	44	--	--	40	35	--	--

The amount of solvent and diluent used may vary depending upon aircraft speed, atomization equipment, total spray volume per hectare, and temperature.

Contact federal or provincial forestry officials for exact mixing recommendations.

Federal or provincial forestry or regulatory officials may recommend inclusion of an oil-soluble dye for purposes of monitoring spray deposit.

WITH WATER: Dowanol TPM or Cyclosol 63 may be used as solvents and Atlox 3409F or Triton X-114 as emulsifiers when preparing water mixes. Proportions of these components in the tank-mix for applying 167 mL (210 g A.I.) or 222 mL (280 g A.I.) in 1.5 L/ha are as follows:

RECIPE NUMBER	167 mL/ha (210 g A.I.) % by Volume				222 mL/ha (280 g A.I.) % by Volume			
	1	2	3	4	5	6	7	8
Folithion Liquid Concentrate	11	11	11	11	15	15	15	15
Dowanol TPM	1.5-4.0	--	--	--	1.5-5.0	--	--	--
Cyclosol 63	--	15-24	4	--	--	15-24	5	--
Atlox 3409F	1.5	--	1.5	--	1.5	--	1.5	--
Triton X-114	--	3	--	5-7*	--	3	--	5-7*
WATER	86-83.5	71-62	83.5	84-82	82-78.5	67-58	78.5	80-78

* The higher rate (7%) should be used when water temperatures are below 10°C or above 18°C.

The amount of solvent and emulsifier used may vary slightly depending on aircraft speed, atomization equipment, total spray volume per hectare and temperature. Contact federal or provincial forestry officials for exact mixing recommendations.

Federal or provincial forestry or regulatory officials may recommend inclusion of a water soluble dye for purposes of monitoring spray deposit.

If you wish to use Triton X-114 instead of Atlox 3409F as a emulsifier in a water emulsion on a limited trial basis, consult Chemagro Ltd., and federal and provincial forestry regulatory officials for specific written recommendations.

Please note that recipe numbers 4 and 8 are less stable than the others listed and require constant agitation to maintain a homogenous emulsion.

Gel formation can occur if Triton X-114 comes into direct contact with water. Therefore, it is essential that FOLITHION Liquid Concentrate, Cyclosol 63, if used, and Triton X-114 ARE THOROUGHLY MIXED IN THE ORDER LISTED BEFORE THE MIXTURE IS ADDED TO WATER. If a tracer dye is used, it should be added after all other components have been thoroughly mixed.

DECONTAMINATION OF EMPTY CONTAINERS

Empty containers may still contain a small quantity of product on both interior and exterior surfaces. The procedures outlined below should be followed to decontaminate empty containers:

1. Rinse the empty drum thoroughly three consecutive times with 25 L of operational spray diluent oil. Incorporate all the retained rinsings in batches of dilute spray for aerial application.

OR

2. Rinse empty drums with 25 L of water containing 1 kg of caustic soda (lye) and 300 mL of detergent. Bury rinse solution at least 50 cm deep in an isolated area away from water supply.

NOTE: Lye is dangerous to handle. Exercise due care in its use.

3. If any area of the exterior of the drum is wet with insecticide concentrate, decontaminate it as described above in either 1 or 2.

DISPOSAL OF DECONTAMINATED CONTAINERS

Drums that have been decontaminated, as outlined above, are suitable for commercial re-conditioning or consignment at either above ground or landfill disposal sites. If drums are destined for disposal sites, they should be made unusable by puncturing to prevent re-use.

SAFETY PRECAUTIONS

It is necessary to distinguish between the higher order of operator exposure to the concentrated insecticide prior to dilution and spraying, and the much lower exposure of third party or bystanders to the dilute spray resulting from drift during spraying operations. Precautionary measures relevant to the concentrated product and operational personnel who are likely to be exposed to it during handling and loading are outlined under the heading PRODUCT PRECAUTIONS. Bystanders should be encouraged to avoid direct exposure to the dilute spray mist. Triton X-114 is an eye irritant. Wear suitable goggles when working with this material.

PRODUCT PRECAUTIONS: This product is harmful if swallowed, inhaled, or absorbed through the skin. Avoid contact with eyes or skin. Do not breathe vapors. Persons involved in pumping insecticide concentrate from drums and the mixing-loading process are cautioned to wear proper protective clothing such as rubber boots, rubber suits or aprons, rubber gloves, a respirator, goggles, and a cap or hat. If spilled on skin, wash immediately with soap and water. If clothing becomes contaminated, remove it and wash clothing before re-use. Persons in contact with product are cautioned to wash hands, arms, and face frequently with soap and water throughout the operation and certainly before eating or smoking. Combustible. Keep away from heat, sparks or open flame. Keep container closed when not in use. Keep product out of reach of children. Do not contaminate food or feed. Keep unauthorized and unprotected persons out of loading and mixing zones.

DANGER

FIRST AID: In case of poisoning, call a physician immediately. Have patient lie down and keep quiet. If swallowed, vomiting should be induced. Administer water freely and induce vomiting by giving one dose (15 mL) of syrup of ipecac. If vomiting does not occur within 10 to 20 minutes, administer second dose. If syrup of ipecac is not available, induce vomiting by sticking finger down throat. Repeat until vomit fluid is clear. The patient should be lying down with the head below the foot level and facing down or to one side. Professional medical assistance should be secured immediately. DO NOT INDUCE VOMITING TO AN UNCONSCIOUS PERSON OR TO PERSONS IN A CONVULSIVE STATE. If on skin, remove contaminated clothing and wash skin immediately with soap and warm water. If eyes are contaminated, wash immediately with flowing water for at least 15 minutes.

TOXICOLOGY INFORMATION: This product inhibits cholinesterase resulting in stimulation of the central nervous system. This results in a sense of "tightness" in the chest, sweating contracted pupils, stomach pains, vomiting and diarrhea. The antidote is atropine sulfate administered in large therapeutic doses repeated as necessary to the point of tolerance. 2-PAM is also antidotal and may be administered in conjunction with atropine. Do not give morphine. Watch for pulmonary edema, which may develop in serious cases of poisoning even after 12 hours. At first sign of pulmonary edema, the patient should be placed in an oxygen tent and treated symptomatically.

WILDLIFE PRECAUTIONS: Undiluted product may be toxic to wildlife. Exercise caution in handling the contents of the container, and in disposing of the container to prevent exposure of wildlife to the undiluted product.

NOTICE: Seller's guarantee shall be limited to the terms set out on the label and, subject thereto, the buyer assumes the risk to persons or property arising from the use or handling of this product and accepts the product in

that condition.

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