

GROUP

1B

INSECTICIDE

GROUPE

1B

INSECTICIDE

PARATHION 960

INSECTICIDE

RESTRICTED

À USAGE RESTREINT

DANGER

POISON

KEEP OUT OF REACH OF CHILDREN
 READ THE LABEL AND ATTACHED
 BOOKLET BEFORE USING

GARDER HORS DE LA PORTÉE DES ENFANTS
 LIRE L'ÉTIQUETTE ET LE
 DÉPLIANT CI-JOINT AVANT L'EMPLOI

Use of this product is not permitted after October 31, 2003.

Il est interdit d'utiliser ce produit après le octobre 2003.

GUARANTEE: Parathion 960 g/L

REGISTRATION NO. 13956 PEST CONTROL PRODUCTS ACT

GARANTIE: Parathion 960 g/L

N° D'HOMOLOGATION 13956 LOI SUR LES PRODUITS ANTIPARASITAIRES

UNITED AGRI PRODUCTS

789 Donnybrook Drive
 Dorchester, Ontario
 N0L 1G5

12002

NET CONTENTS/CONTENU NET: 10 L

05/02

PULL AT THUMBMARK TO DETACH BOOK FROM LABEL
 TIRER SUR L'ONGLET POUR DÉTACHER LE LIVRET DE L'ÉTIQUETTE

NOTICE TO USER: This 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.

NATURE OF THE RESTRICTION: This product must be stored apart from lodging for humans, animal quarters and normal work areas, to avoid inadvertent exposure. This product must be stored under lock and key and away from food and feed. All precautionary measures on the label must be followed when using this product.

DIRECTIONS FOR USE

Follow provincial calendar recommendations for proper timing and spray intervals.

DO NOT APPLY MORE THAN TWICE PER SEASON TO ANY CROP. Apply by ground only. DO NOT APPLY BY AIR.

Do not apply within the number of days of harvest given in the pre-harvest interval for each crop.

TREE FRUIT CROPS:

FOR DILUTE GROUND APPLICATIONS, USE DESIGNATED AMOUNT OF PARATHION IN 1000 LITRES OF WATER UNLESS OTHERWISE SPECIFIED. For Apples, Apricot, Cherry, Peach, Pear, Plum, Prune, the rate per hectare is based on using 3000 L of spray on full sized trees 4.5-5.5 metres high. Trees smaller or larger may require more or less Parathion. Follow provincial calendar guidelines as to water volumes for the size of tree being sprayed. NOTE: For concentrate sprayer applications, apply the same quantity of Parathion/ha as would be applied when spraying dilute.

For tree fruit uses on Apple, Apricot, Cherry, Peach, Pear, Plum, Prune, avoid application during very hot still weather.

TREE FRUIT CROPS	PESTS	RATE OF PRODUCT PER 1000 L	PRE-HARVEST INTERVAL (DAYS)
Apple	Apple aphid, Codling Moth, Eyespotted bud moth, Lecanium scale, Mealybug, Oystershell, Plant bug, Plum curculio, Redbanded leafroller, San Jose scale, Woolly aphid	275 - 400 mL	14
Apricot	Aphids, Cottony peach scale, Lecanium scale, Mealybug, Oriental fruit moth, Oystershell scale, Plant bug, Plum curculio, San Jose scale, Shothole borer	275 - 400 mL	14
Cherry	Aphids, Black cherry aphid, Cherry fruit fly, Lecanium scale, Mealybug, Oriental fruit moth, Oystershell scale, Plant bug, Plum Curculio, Redbanded leafroller, San Jose scale, Shothole borer	275 - 400 mL	14

TREE FRUIT CROPS	PESTS	RATE OF PRODUCT PER 1000 L	PRE-HARVEST INTERVAL (DAYS)
Peach	Aphids, Codling moth, Cottony peach scale, Eyespotted bud moth, Lecanium scale, Mealybug, Oriental fruit moth, Oystershell scale, Plant bug, Plum curculio, Redbanded leafroller, San Jose scale, Shothole borer.	275 - 525 mL	14
Pear	Aphids, Codling moth, Eyespotted bud moth, Lecanium scale, Mealybug, Oriental fruit moth, Oystershell scale, Plant bug, Redbanded leafroller, San Jose scale, Woolly aphid, Woolly pear aphid.	275 - 400 mL	14
Plum, Prune	Aphids, Codling moth, Cottony peach scale, Eyespotted bud moth, Lecanium scale, Mealybug, Oriental fruit moth, Oystershell scale, Plant bug, Plum curculio, Redbanded leafroller, San Jose scale, Shothole borer, Woolly aphid.	275 - 525 mL	14
OTHER CROPS	PESTS	RATE OF PRODUCT PER HECTARE	PRE-HARVEST INTERVAL (DAYS)
Beans –Green –Dry –Lima –Snap Common	Aphids, Corn borer, Leafhopper, Leafminer, Leafroller, Mexican bean Common beetle, Thrips	375 - 590 mL	14
Beet	Aphids, Armyworm, Caterpillar, Flea beetle, Leafhopper, Leafminer, Leafroller, Spider Mite, Thrips, Webworm, Whitefly	225 - 375 mL	14
Blueberry	Blossom weevil, Cherry fruitworm, Leafhopper, Mealybug	275 - 325 mL per 1000 L of dilute spray	14

OTHER CROPS	PESTS	RATE OF PRODUCT PER HECTARE	PRE-HARVEST INTERVAL (DAYS)
Broccoli	Aphids, Cabbage looper, Cabbageworm (Complex)	375 - 590 mL	14
Brussels Sprouts	Diamondback moth, Leafhopper, Leafminer, Leafroller,		
Cabbage	Thrips		
Cauliflower			
Kale, Turnips			
Carrots	Carrot rust fly, Leafhoppers	375 mL	14
Celery	Aphids, Carrot rust fly, Celery worms, Flea beetle, Leafhopper, Leafminer, Leafroller, Spider mite, Thrips, Whitefly	225 - 375 mL	14
Corn -Field	Aphids, Armyworm, Corn earworm, European corn borer, Leafminer, Leafroller, Thrips	590 - 725 mL	14
-Sweet			
Cranberry	Cranberry fireworm, Cranberry fruitworm, Leafhopper, Mealybug	600 mL - 1.5 L	28
Forage Crops & Pastures	Aphids, Armyworm, Blister beetle, Greenbug, Leafhopper, Leatherjacket (Crane fly larvae)	300 - 515 mL	14
	Do not apply within 14 days of pasturing.	590 mL	
Grape	Leafhopper, Leafroller, Mealybug	275 - 325 mL	14
Lettuce	Aphids, Armyworm, Cabbage looper, Caterpillar, Flea beetle, Grasshopper, Green stink bug, Leafhopper, Leafminer, Leafroller, Spider mite, Thrips, Webworm, Whitefly.	225 - 375 mL	21 - Leaf 7 - Head

OTHER CROPS	PESTS	RATE OF PRODUCT PER HECTARE	PRE-HARVEST INTERVAL (DAYS)
Onion	Aphids, Armyworm, Cabbage looper, Caterpillar, Flea beetle, Grasshopper, Green stink bug, Leafhopper, Leafminer, Onion (Adult) maggot, Onion thrips, Spider mite, Webworm, Whitefly.	225 - 375 mL	21
Pea	Alfalfa looper, Aphids, Pea weevil Do not apply within 15 days of harvest if vines are to be fed to livestock.	225 - 450 mL	14
Spinach	Aphids, Armyworm, Cabbage looper, Caterpillar, Flea beetle, Grasshopper, Green stink bug, Leafhopper, Leafminer, Leafroller, Thrips, Webworm, Whitefly.	225 - 375 mL	7
Strawberry	Blossom weevil, Leafhopper, Leafroller, Mealybug	275 - 325 mL in 1000 L of dilute spray	14
Tomato	Aphids, Armyworm, Cabbage looper, Caterpillars, Flea beetle, Grasshopper, Green stink bug, Leafhopper, Leafminer, Leafroller, Spider mite, Thrips, Tomato caterpillar, Webworm, Whitefly.	225- 375 mL	21

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN.

Acutely hazardous to humans and domestic animals.

Fatal poisoning can result from breathing, swallowing, or through skin absorption.

DO NOT inhale, get on skin or in eyes. DO NOT apply this product in such a manner as to directly or indirectly expose workers or other persons.

Keep all unprotected persons, children, and animals away during use, when re-entering treated areas or where there is danger of drift.

Repeated exposure to cholinesterase inhibitors such as parathion may, without warning, cause prolonged susceptibility to very small doses of any cholinesterase inhibitor.

Periodic medical supervision of applicators and harvesters is recommended (including baseline cholinesterase measurement).

If symptoms of parathion poisoning such as headache, nausea, trembling, blurred vision, etc. develop while using parathion, STOP WORK IMMEDIATELY and seek medical attention.

RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, please note that PARATHION Insecticide contains a Group 1B insecticide. Any insect population may contain individuals naturally resistant to PARATHION Insecticide and other Group 1B insecticides. The resistant individuals may dominate the insect population if this group of insecticides are 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 PARATHION Insecticide or other Group 1B insecticides with different groups that control the same pests in a field.
- Avoid application of more than 2 times and consecutive sprays of PARATHION Insecticide or other insecticides in the same group in a season.
- Use tank mixtures with insecticides from a different group when such use is permitted.
- Insecticide use should be based on an IPM program that includes scouting, record keeping and crop rotation and considers cultural, biological and other chemical control practices.
- Monitor treated pest populations for resistance development.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for the specific site and pest problems in your area.
- For further information and to report suspected resistance, contact the Technical Service, United Agri Products, 1-800-265-4624 or at www.uap.ca.

If this pest control 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., contact 1-866-375-4648 or www.cropro.org/.

WORKER PROTECTION

During mixing, loading, clean-up and repair, wear protective clothing including coveralls over a long sleeved shirt and long pants, a chemical resistant apron, an approved full faced respirator for organophosphorous pesticides, chemical resistant (rubber, neoprene) footwear and gloves.

During application using airblast equipment (except in closed cabs with filtered air) and when using hand held equipment, wear full protective clothing including chemically resistant coveralls with a hood over a long sleeved shirt and long pants, an approved full faced respirator for organophosphorous pesticides, chemical resistant (rubber, neoprene) footwear and gloves.

During application with airblast equipment with fully enclosed cabs/cockpits with filtered air, and ground boom equipment, wear protective clothing including coveralls over a long sleeved shirt and long pants, and chemical resistant footwear. Chemical resistant (rubber, neoprene) gloves should be available in the cab or cockpit. **IMPORTANT**; this clothing is **NOT** adequate to protect you during loading, mixing, repairing or cleaning equipment, or re-entering treated areas.

Do not re-enter treated area within 48 hours after spraying. If workers must re-enter treated area, between 2 and 14 days after spraying, protective clothing including coveralls over a long sleeved shirt and long pants, and a chemically resistant hat or hood, chemically resistant (rubber, neoprene) footwear and gloves must be worn.

If persons with a beard are required to wear a respirator, the beard should be shaved to ensure a good respirator fit. Avoid contact with parathion dust, wettable powder, or emulsifiable concentrate liquid.

Important: Before removing gloves after contacting parathion, wash them with soap and water.

Wash hands and face thoroughly with soap and water before eating, drinking, smoking or using the toilet during working hours.

Wear freshly laundered work clothing and clean protective equipment daily.

After each use, remove all work clothing and footwear. Wash protective clothing separately from other household laundry with heavy-duty detergent and hot water.

Immediately after each use, wash protective equipment including the insides of gloves with soap and hot water and thoroughly rinse before re-use. Respirator should be cleaned and filter replaced according to instructions included with respirator.

Immediately after working with parathion, workers must wash entire body with soap and water and change into clean clothing.

Do not mix, load or apply indoors. Always work to the windward side when handling or spraying parathion products. Do not use

parathion on excessively hot days. Do not use parathion products with ultra low volume hand held sprayers. Users should be trained in the safe use handling of parathion.

ENVIRONMENTAL HAZARD

This product is toxic to fish and wildlife. Birds and other wildlife in treated areas may be killed. Keep out of any body of water. This product contains a petroleum distillate which is moderately to highly toxic to aquatic organisms. Avoid contamination of aquatic systems during application. Do not contaminate these systems through direct application, disposal of waste or cleaning equipment. Do not apply when weather conditions favour drift from treated areas. Do not apply where run-off is likely to occur. Do not contaminate water by cleaning of equipment or disposal of wastes.

FIRST AID

IF SWALLOWED, and victim is conscious, induce vomiting IMMEDIATELY by giving 1 or 2 glasses of water and touching back of throat with finger. Repeat until vomit fluid is clear. If victim is unconscious, do not give anything by mouth and do not induce vomiting. Get medical attention IMMEDIATELY or contact a poison control centre. Take this label with you to physician.

IN CASE OF SKIN OR EYE CONTACT, IMMEDIATELY flush eyes at least 15 minutes; wash skin with plenty soap and water. Remove contaminated clothing including footwear. Get medical attention IMMEDIATELY. Take this label with you to physician.

IN CASE OF INHALATION, move victim to fresh air and call a physician IMMEDIATELY. If breathing has stopped, start artificial respiration IMMEDIATELY and continue until medical attention is received.

IN CASES OF SUSPECTED POISONING, CONTACT A PHYSICIAN IMMEDIATELY OR CONTACT A POISON CONTROL CENTRE. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION

Parathion, an organophosphorous insecticide, is a cholinesterase inhibitor which is rapidly absorbed through the skin and eyes. Poisoning can also result from inhalation, and swallowing.

Symptoms of parathion poisoning include: headaches, nausea, vomiting, abdominal cramps, weakness, blurred vision, pin-point pupils, tightness in chest, laboured breathing, nervousness, sweating, watering of eyes, drooling or frothing of mouth and nose, muscle spasms, and coma. Poisoning can be fatal.

Antidote: Administer atropine sulphate in large doses. TWO to FOUR mg. intravenously or intramuscularly as soon as cyanosis (blueness of skin due to lack of oxygen) has been treated. Repeat at 5 to 10 minute intervals until signs of atropinization appear. 2-PAM chloride is a pharmacologic antidote and may be administered as an adjunct to, but not a substitute for atropine which

is a symptomatic and often life-saving antidote. DO NOT GIVE MORPHINE OR TRANQUILIZERS. Parathion is a strong cholinesterase inhibitor affecting the central and peripheral nervous systems and producing cardiac and respiratory depression. At first sign of pulmonary edema, the patient should be given supplemental oxygen and treated symptomatically. Continued absorption of the poison may occur and fatal relapse has been reported initial improvement; VERY CLOSE SUPERVISION OF THE PATIENT IS INDICATED FOR AT LEAST 48 HOURS.

STORAGE

Parathion products should be stored under lock and key. DO NOT contaminate water, food, or feed during storage. Parathion should be stored at temperatures not exceeding 25°C (77°F), nor should it be heated above 55°C (131°F).

DISPOSAL

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Follow provincial instructions for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.
5. For information on the 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.

NOTICE TO USER: This 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.

NOTICE TO BUYER: 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 on that condition.

This label transcript service is offered by the Pest Management Regulatory Agency to provide efficient searching for label information. This service and this information do not replace the official hard-copy label. The PMRA does not provide any guarantee or assurance that the information obtained through this service is accurate, current or correct, and is therefore not liable for any loss resulting, directly or indirectly, from reliance upon this service.

+))