### GROUP 1B INSECTICIDE

MANA

# GUTHION 50 WSB Wettable Powder Crop Insecticide

#### in Water Soluble Packets

For insect control on fruit crops

#### RESTRICTED

GUARANTEE: Azinphos-methyl......50%

#### REGISTRATION NO. 21374 PEST CONTROL PRODUCTS ACT

Keep water soluble packets in this container and store in a cool dry place, but not below freezing (0°C). Protect from heat. Keep away from open flame. Do not heat. Entire inner packets dissolve in water. After opening outer bag, drop the required unopened inner packets into spray tank as directed. Do not excessively handle water soluble packet or expose it to moisture, since this may cause breakage. Do not break open water soluble packages.

READ THE LABEL AND BOOKLET BEFORE USING

#### KEEP OUT OF REACH OF CHILDREN



DANGER

POISON

CALL A DOCTOR IN CASE OF ACCIDENT OR CONTACT A POISON CONTROL CENTRE

WATER SOLUBLE PACKETS MAY NOT BE SOLD SEPARATELY

CONTAINS FIVE 454 GRAM WATER SOLUBLE PACKETS TOTAL NET CONTENTS: 2.270 KILOGRAMS

> Makhteshim Agan of North America Inc. 4515 Falls of Neuse Road, Suite 300 Raleigh, NC 27609 U.S.A. Telephone: 1-919-256-9305

### PRECAUTIONS

#### KEEP OUT OF REACH OF CHILDREN:

DANGER: Poisonous if swallowed, inhaled, or absorbed through the skin. Do not get in eyes or on skin. Do not breathe fumes or spray mist. Spray operator should work to windward to stay out of drift or mist. Keep all unprotected persons out of the operating area or vicinity where there may be danger of drift. Do not contaminate feed or foodstuffs. Keep out of reach of children and domestic animals.

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., visit CropLife Canada's web site at: www.croplife.ca.

PERSONAL PROTECTIVE EQUIPMENT (PPE):

See ENGINEERING CONTROLS for additional requirements.

Mixers and loaders must wear the following during mixing, loading, clean-up and repair activities:

- Coveralls over long-sleeved shirt and long-legged pants
- Chemical-resistant gloves, such as barrier laminate or Viton
- Chemical-resistant footwear plus socks
- Protective eyewear
- Chemical-resistant apron when mixing or loading
- Chemical-resistant headgear
- For exposures in enclosed areas, a respirator with either an organic vapour-removing cartridge with a pre-filter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G)
- For exposures outdoors, dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC23-C)

Air blast applicators must be in fully enclosed cabs or if not in fully enclosed cabs, applicators must wear:

- Chemical resistant coveralls over long-sleeved shirt and long-legged pants
- Chemical-resistant hood
- Full-face respirator or half-faced respirator with a face shield (respirators can have either an organic vapour-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G)
- Chemical-resistant footwear plus socks
- Chemical-resistant gloves

Applicators (other than air blast) and other handlers (other than mixers and loaders) must wear:

- Coveralls over long-sleeved shirt and long-legged pants
- Chemical-resistant gloves such as barrier laminate or viton
- Chemical-resistant footwear plus socks
- Protective eyewear
- Chemical-resistant headgear
- Dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC23-C)

Information as to suitable types of masks or respirators is available from your dealer. Discard clothing and other absorbent materials if accidentally drenched or heavily contaminated with this product. Do not reuse contaminated clothing. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

User safety recommendations:

#### User 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 PPE immediately after handling this product. Wash the outside of gloves before removing gloves or clothing. As soon as possible, wash thoroughly and change into clean clothing.

### ENGINEERING CONTROLS

Wettable powder formulations: Wettable powder formulations are permitted only when marketed in water-soluble packages. Water-soluble packets qualify as a closed mixing/loading system when used correctly. Mixers and loaders using water-soluble packets must wear the personal protective equipment required above for mixers/loaders. Do not break open water soluble packages.

### FIRST AID

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 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 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.

Take the container label or product name and Pest Control Product Registration Number with you when seeking medical attention.

### TOXICOLOGICAL INFORMATION

Azinphos-methyl is a cholinesterase inhibitor resulting in stimulation of the central nervous system, the parasympathetic nervous system, and the somatic motor nerves. Do not give morphine. Watch for pulmonary oedema, which may develop in serious cases of poisoning even after 12 hours. At first sign of pulmonary oedema, the patient should be placed in an oxygen tent and treated symptomatically.

SYMPTOMS OF POISONING: Typical symptoms of overexposure to cholinesterase inhibitors include headache, nausea, dizziness, sweating, salivation, runny nose and eyes. This may progress to muscle twitching, weakness, tremor, incoordination, a sense of tightness in the chest, sweating, contracted pupils, vomiting, abdominal cramps and diarrhoea in more serious poisonings. A life-threatening poisoning is signified by loss of consciousness, incontinence, convulsions and respiratory depression with a secondary cardiovascular component.

ANTIDOTE: Treat symptomatically. If exposed, plasma and red blood cell cholinesterase tests may indicate degree of exposure (baseline data are useful). Atropine, only by injection, is the preferable antidote. Oximes, such as pralidoxime chloride, may be therapeutic if used early; however, use only in conjunction with atropine. In cases of severe acute poisoning, use antidotes immediately after establishing an open airway and respiration. With oral exposure, the decision of whether to induce vomiting or not should be made by an attending physician.

### ENVIRONMENTAL HAZARDS

This pesticide is extremely toxic to fish and wildlife.

Do not apply directly to water, or to areas where surface water is present or to inter-tidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment and container or disposal of wastes. Drift and runoff from treated areas are hazardous to aquatic organisms in neighbouring areas.

This product is highly toxic to bees exposed to direct treatment, drift, or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area. Protective information may be obtained from your local government extension specialist. When treating fruit during the bloom period, bee keepers should be warned well in advance to remove hives a safe distance from orchards to be treated.

Drift resulting from applications of azinphos-methyl is a hazard to aquatic ecosystems. Aquatic ecosystems consist of any permanent body of water, such as, but not limited to lakes, ponds, streams, rivers, creeks, sloughs, canals, coulees, prairie potholes, reservoirs, marshes or wetlands. For details on required buffer zones, refer to Spray Drift Management for Ground Applications in booklet.

**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.

**NATURE OF RESTRICTION:** This product is to be stored, displayed and distributed in the manner authorized. Provincial and federal regulations are in effect.

**USE LIMITATIONS:** Do not use on other crops used for food or forage. Use only according to label directions. Application at rates above those shown may result in illegal crop residues. Do not graze livestock in treated orchards or groves for 21 days after treatment. Use of this product in greenhouses or enclosed areas is prohibited. Backpack and hand-wand spraying is prohibited.

**RESTRICTED USES:** See DIRECTIONS FOR USE in booklet.

### STORAGE AND DISPOSAL

STORAGE: Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food and feed. Do not store below freezing (0°C). Exposure to moisture or excessive handling of water soluble packets may cause breakage. Store packets in original container and out of reach of children, preferably in a locked storage area.

### DISPOSAL:

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

- 1. Make outer bag unsuitable for further use.
- 2. Do not reuse outer bag for any purpose.
- 3. Dispose of outer bag in accordance with provincial requirements.
- 4. 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.

## ACCIDENTAL SPILLS:

Handle and open container in a manner as to prevent spillage. If the container is leaking or material is spilled for any reason or cause, carefully sweep material into a pile. Refer to Precautionary Statements on label for hazards associated with the handling of this material. Do not walk through spilled material. Dispose of pesticide as directed above. In spill or leak incidents, keep unauthorized people away. IN CASE OF SPILLS, POISONING OR FIRE, TELEPHONE EMERGENCY RESPONSE NUMBER COLLECT Makhteshim Agan of North America Inc. at 1 800 535-5053 (24 HOURS A DAY).

®GUTHION is a registered trademark of Makhteshim Agan of North America Inc.

### GROUP 1B INSECTICIDE

MANA

# GUTHION 50 WSB Wettable Powder Crop Insecticide

#### in Water Soluble Packets

For insect control on fruit crops

#### RESTRICTED

GUARANTEE: Azinphos-methyl......50%

#### REGISTRATION NO. 21374 PEST CONTROL PRODUCTS ACT

Keep water soluble packets in this container and store in a cool dry place, but not below freezing (0°C). Protect from heat. Keep away from open flame. Do not heat. Entire inner packets dissolve in water. After opening outer bag, drop the required unopened inner packets into spray tank as directed. Do not excessively handle water soluble packet or expose it to moisture, since this may cause breakage. Do not break open water soluble packages.

READ THE LABEL AND BOOKLET BEFORE USING

#### KEEP OUT OF REACH OF CHILDREN



DANGER

POISON

CALL A DOCTOR IN CASE OF ACCIDENT OR CONTACT A POISON CONTROL CENTRE

WATER SOLUBLE PACKETS MAY NOT BE SOLD SEPARATELY

CONTAINS FIVE 454 GRAM WATER SOLUBLE PACKETS TOTAL NET CONTENTS: 2.270 KILOGRAMS

> Makhteshim Agan of North America Inc. 4515 Falls of Neuse Road, Suite 300 Raleigh, NC 27609 U.S.A. Telephone: 1-919-256-9305

### PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN: Poisonous if swallowed, inhaled, or absorbed through the skin. Do not get in eyes or on skin. Do not breathe fumes or spray mist. Spray operator should work to windward to stay out of drift or mist. Keep all unprotected persons out of the operating area or vicinity where there may be danger of drift. Do not contaminate feed or foodstuffs. Keep out of reach of children and domestic animals.

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., visit CropLife Canada's web site at: www.croplife.ca.

#### PERSONAL PROTECTIVE EQUIPMENT (PPE):

See engineering controls for additional requirements.

Mixers and loaders must wear the following during mixing, loading, clean-up and repair activities:

- Coveralls over long-sleeved shirt and long-legged pants
- Chemical-resistant gloves, such as barrier laminate or Viton
- Chemical-resistant footwear plus socks
- Protective eyewear
- Chemical-resistant apron when mixing or loading
- Chemical-resistant headgear
- For exposures in enclosed areas, a respirator with either an organic vapour-removing cartridge with a pre-filter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G)
- For exposures outdoors, dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC23-C)

Air blast applicators must be in fully enclosed cabs or if not in fully enclosed cabs, applicators must wear:

- Chemical resistant coveralls over long-sleeved shirt and long-legged pants
- Chemical-resistant hood
- Full-face respirator or half-faced respirator with a face shield (respirators can have either an organic vapour-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G)
- Chemical-resistant footwear plus socks
- Chemical-resistant gloves

Applicators (other than air blast) must wear:

- Coveralls over long-sleeved shirt and long-legged pants
- Chemical-resistant gloves such as barrier laminate or viton
- Chemical-resistant footwear plus socks
- Protective eyewear
- Chemical-resistant headgear
- Dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC23-C)

Information as to suitable types of masks or respirators is available from your dealer. Discard clothing and other absorbent materials if accidentally drenched or heavily contaminated with product. Do not reuse contaminated clothing. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

User safety recommendations:

#### User 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 PPE immediately after handling this product. Wash the outside of gloves before removing gloves or clothing. As soon as possible, wash thoroughly and change into clean clothing.

### ENGINEERING CONTROLS

Wettable powder formulations: Wettable powder formulations are permitted only when marketed in water-soluble packages. Water-soluble packets qualify as a closed mixing/loading system when used correctly. Mixers and loaders using water-soluble packets must wear the personal protective equipment required above for mixers/loaders. Do not break open water soluble packages.

### FIRST AID

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 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 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.

Take the container label or product name and Pest Control Product Registration Number with you when seeking medical attention.

### TOXICOLOGICAL INFORMATION

Azinphos-methyl is a cholinesterase inhibitor resulting in stimulation of the central nervous system, the parasympathetic nervous system, and the somatic motor nerves. Do not give morphine. Watch for pulmonary oedema, which may develop in serious cases of poisoning even after 12 hours. At first sign of pulmonary oedema, the patient should be placed in an oxygen tent and treated symptomatically.

SYMPTOMS OF POISONING: Typical symptoms of overexposure to cholinesterase inhibitors include headache, nausea, dizziness, sweating, salivation, runny nose and eyes. This may progress to muscle twitching, weakness, tremor, incoordination, a sense of "tightness" in the chest, sweating, contracted pupils, vomiting, abdominal cramps and diarrhoea in more serious poisonings. A life-threatening poisoning is signified by loss of consciousness, incontinence, convulsions and respiratory depression with a secondary cardiovascular component.

ANTIDOTE: Treat symptomatically. If exposed, plasma and red blood cell cholinesterase tests may indicate degree of exposure (baseline data are useful). Atropine, only by injection, is the preferable antidote. Oximes, such as pralidoxime chloride, may be therapeutic if used early; however, use only in conjunction with atropine. In cases of severe acute poisoning, use antidotes immediately after establishing an open airway and respiration. With oral exposure, the decision of whether to induce vomiting or not should be made by an attending physician.

### ENVIRONMENTAL HAZARDS

This pesticide is extremely toxic to fish and wildlife.

Do not apply directly to water, or to areas where surface water is present or to inter-tidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment and container or disposal of wastes. Drift and runoff from treated areas are hazardous to aquatic organisms in neighbouring areas.

This product is highly toxic to bees exposed to direct treatment, drift, or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area. Protective information may be obtained from your local government extension specialist. When treating fruit during the bloom period, bee keepers should be warned well in advance to remove hives a safe distance from orchards to be treated.

Drift resulting from applications of azinphos-methyl is a hazard to aquatic ecosystems. Aquatic ecosystems consist of any permanent body of water, such as, but not limited to lakes, ponds, streams, rivers, creeks, sloughs, canals, coulees, prairie potholes, reservoirs, marshes or wetlands. For details on required buffer zones, refer to Spray Drift Management for Ground Applications.

#### **ROTATIONAL CROPS**

Do not plant root crops other than those with registered azinphos-methyl uses in azinphos-methyl treated soil sooner than 6 months after last application. Do not plant any other crop other than those with registered azinphos-methyl uses in treated soil sooner than 30 days after last application.

### RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, please note that GUTHION 50 WSB Wettable Powder Crop Insecticide contains a Group 1B insecticide. Any insect population may contain individuals naturally resistant to GUTHION 50 WSB Wettable Powder Crop Insecticide and other Group 1B 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 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 GUTHION 50 WSB Wettable Powder Crop Insecticide or other Group 1B insecticides with different groups that control the same pests in a field.
- Insecticide use should be based on an IPM program that includes scouting, record keeping, and considers cultural, biological and other chemical control practices.
- Correctly identify the pest and ensure economic and agronomic thresholds are met before spraying.
- 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 or to report suspected resistance, contact your local Makhteshim-Agan of North America Inc. representative, or call Makhteshim Agan of North America Inc. at 1 919 256-9305.

### SPRAY DRIFT MANAGEMENT

General information: Only apply when there is minimal potential for drift to areas of human habitation or areas of human activity such as houses, cottages, schools and parks. Avoid overspray or drift onto water bodies or other environmentally sensitive habitat. Application equipment and weather affects spray drift. The applicator must consider wind speed, wind direction, temperature and sprayer settings when making application decisions.

Do not apply during temperature inversions. Drift potential is high during temperature inversions. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain close to the ground and move laterally in a cloud. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the

morning. Their presence can be indicated by ground fog; however if fog is not present, inversions can also be identified by the movement of smoke from a ground source. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical mixing. Low humidity and high temperatures increase the evaporation rate of spray droplets and therefore the likelihood of increased spray drift. Avoid spraying during conditions of low humidity and/or high temperature.

Ground application: For minimizing drift, an appropriate buffer zone is required between the downwind point of direct application and the nearest boundary of sensitive aquatic habitats including lakes, ponds, streams, rivers, creeks, sloughs, canals, coulees, prairie potholes, reservoirs, marshes or wetlands.

Do not apply during periods of dead calm or when winds are gusty.

For application with ground spray booms, the buffer zones presented in Table 1 are required for protection of aquatic habitats (as indicated above).

Air blast application: Do not direct spray above trees/vines and turn off outward pointing nozzles at row ends and outer rows.

Do not apply during periods of dead calm, when winds are gusty or when wind speed is greater than 16 km/hour at the application site as measured outside of the orchard/vineyard on the upwind side.

For orchard air blast applications, the buffer zones presented in Table 1 are required for protection of aquatic habitats (as indicated above).

Table 1. The following buffer zones are required between the point of direct pesticide application and the nearest boundary of downwind sensitive habitats such as lakes, ponds, streams, rivers, creeks, sloughs, canals, coulees, prairie potholes, reservoirs, marshes or wetlands:

Method of application	Buffer zone (metres) required for the protection of aquatic habitat with specified water depth			
	<1 metres	1-3 metres	>3 metres	
Boom sprayer <sup>*</sup>	50	40	30	
Air blast (early season)	75	60	50	
Air blast (late season)	65	50	40	

\*With the use of shrouds or cones on field sprayers (for reducing drift), buffer zones can be reduced by 70% (shrouds) or 30% (cones).

### DIRECTIONS FOR USE

#### DO NOT APPLY BY AIR

**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.

**NATURE OF RESTRICTION:** This product is to be stored, displayed and distributed in the manner authorized. Provincial and federal regulations are in effect.

**USE LIMITATIONS:** Do not use on other crops used for food or forage. Use only according to label directions. Application at rates above those shown may result in illegal crop residues. Do not graze livestock in treated orchards or groves for 21 days after treatment. Use of this product in greenhouses or enclosed areas is prohibited. Backpack and hand-wand spraying is prohibited.

**RESTRICTED USES:** See below.

RESTRICTED ENTRY INTERVAL (REI): Do not enter or allow worker entry into treated areas during the restricted entry interval (REI), without personal protective equipment (PPE), listed in the chart below:

Crop	REI	Remarks
apple, plum, prune, pear, apricot, peach	14 days	<ul> <li>The PPE required for early entry (before end of REI) to treated areas that involves contact with anything that has been treated, such as plants, soil, or water, is:</li> <li>Chemical-resistant coveralls over long-sleeved shirt and long pants</li> <li>Chemical-resistant gloves</li> </ul>
raspberry, cranberry, blackberry	7 days	<ul> <li>Chemical-resistant footwear plus socks</li> <li>Protective eyewear</li> <li>Chemical-resistant headgear for overhead exposure</li> </ul>
cherry (sweet and tart)	15 days	Workers performing activities that involve foliar contact following the REI must wear clean long sleeved shirts and protective gloves for the remainder of the growing season.
grape	28 days	Notify workers of the pesticide application by warning them orally and by posting warning signs at entrances to treated areas. Wash stations must be available in the field for all re-entry workers. Do not apply this product in a way that will come into contact with workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

Persons other than agricultural workers, such as members of the general public involved in pick-your-own, U-pick or similar operations, are not permitted to enter a treated area for 30 days after application.

MIXING: The enclosed packets containing GUTHION 50 WSB Wettable Powder Crop Insecticide crop insecticide are water soluble. Do not allow packets to become wet prior to adding to the spray tank. Do not handle with wet hands. Reseal outer bag to protect remaining packets.

To prepare the spray mixture, drop the required number of unopened packets, as determined under "Recommended Applications", into the spray tank while filling with water to the desired level. Operate the agitator while mixing. Depending on the water temperature and the degree of agitation, the packets should be completely dissolved within approximately 5 to 10 minutes from the time they were added to the water.

COMPATIBILITY: GUTHION insecticide is physically compatible with many liquid fertilizers. GUTHION 50 WSB Wettable Powder Crop Insecticide must be slurried with water before mixing with liquid fertilizer. For further information, contact your local Makhteshim Agan of North America Inc. representative and/or supplier. If your supplier and Makhteshim Agan of North America Inc. have no experience with the combination you are considering, you should conduct tests to determine physical compatibility.

To determine physical compatibility, pour the recommended proportions of each chemical with the same proportion of water as will be present in the chemical supply tank into a suitable container, mix thoroughly and allow to stand for five minutes. If the combination remains mixed, or can be remixed readily, the mixture is considered physically compatible.

Combination should be kept agitated and should be applied immediately. Do not allow combination to sit for prolonged periods in the chemical supply tank.

Do not use packets in a tank-mix with products that contain boron or release free chlorine.

DOSAGE: Use specified dosage of GUTHION 50 WSB Wettable Powder Crop Insecticide in the amount of water necessary to give complete coverage of foliage. Determine the total amount of wettable powder to be added to the spray tank based on the rates under "Recommended Applications". Add the required number of 454 gram packets to the spray tank while filling with sufficient water to give complete coverage of foliage. The type of equipment used will determine the concentration required; however, use of these packets is not recommended for making highly concentrated mixtures such as used in ULV (ultra-low-volume) spraying.

SPRAYING: Work to windward. Protect sprayer operators from drift or mist. Additional information on spray drift management for GROUND APPLICATION is provided in the section "SPRAY DRIFT MANAGEMENT". When low volumes of spray are applied, complete coverage and thorough application are essential for most effective results. Schedule applications in accordance with local conditions. Consult your local agricultural authorities for specific use information.

RECOMMENDED APPLICATIONS: Acceptable uses for azinphos-methyl until December 31, 2012.

			1
CROP	INSECT	DOSAGE GUTHION 50 WSB Wettable Powder Crop Insecticide	REMARKS
APPLE, PEAR, CRABAPPLE (for pollination in commercial apple orchard)	apple maggot, codling moth, eyespotted budmoth, Forbes scale, fruittree leafroller, green fruitworm, leafhoppers, mealybug, mullein bug (Campyloma), obliquebanded leafroller, oystershell scale, pear psylla, plum curculio, Putnam scale, redbanded leafroller, San José scale, stink bugs, tarnished plant bug, pale apple leafroller, winter moth, European apple sawfly	600-746.6 g/1000 L Apply 1000-3000L of water per hectare per spray. (Maximum application rate: 2.24 kg/ha)	Ground application only. Apply specified dose in sufficient water to ensure complete coverage. For control of plum curculio, apply as a border spray in sufficient water for thorough coverage. Up to 8.96 kg for apples (6.72 kg for pears) may be applied per hectare per crop (4 applications for apples and 3 applications for pears per crop season). Allow at least 7 days between applications. If last application is less than 2.24 kg/ha, allow at least 14 days between last application and harvest. If last application is equal to 2.24 kg/ha allow 21 days between last application and harvest. Use during dormant season is prohibited. For airblast applications, turn off outward pointing nozzles at row ends and when spraying the outer two rows. Do not graze livestock in treated orchards for 21 days after application.
APRICOT, PEACH	Cottony peach scale, European fruit lecanium, Forbes scale, Oriental fruit moth, oblique-banded leafroller, peach twig borer, Platynota flavedana leafroller, plum curculio, red- banded leafroller, San Jose scale, stink bug, tarnished plant bug, terrapin scale, walnut scale, white peach scale	600-666.6 g/1000 L	Ground application only. Apply specified dose in sufficient water to ensure complete coverage. For plum curculio, apply as a border spray in sufficient water for thorough coverage. Up to two applications per year. Up to 4 kg maximum may be applied per hectare per crop season. Allow at least 14 days between applications. Allow at least 21 days between last application and harvest. Use during dormant season is prohibited. For airblast applications, turn off outward pointing nozzles at row ends and when spraying the outer two rows. Do not graze livestock in treated orchards for 21 days after application.
BLACKBERRY RASPBERRY	raspberry crown borer	2.25 kg/ha	Ground application only. Post-harvest application: for control of raspberry crown borer, apply specified dosage per hectare to the lower portion of the canes and to soil beneath the plants in approximately 1600 L water. One application only.

(		1		
CROP	INSECT	DOSAGE GUTHION 50 WSB Wettable Powder Crop Insecticide	REMARKS	
CHERRY	cherry fruit fly, Forbes scale, eyespotted budmoth, fruittree leafroller, plum curculio, San José scale		Ground application only. Apply specified dosage in 1000 L of water as a full coverage spray. Limit to two applications to a maximum of 3.36 kg/ha per year. Allow at least 14 days between applications and at least 15 days between last application and harvest.	
	lesser peachtree borer	1.25 kg/ 1000 L	Use during dormant season is prohibited. For airblast applications, turn off outward pointing nozzles at row ends and when spraying the outer two rows. Do not graze livestock in treated orchards for 21 days after application.	
CRANBERRY	cranberry fruitworms, Sparganothis sulfureana, tipworm	1.12 kg-2.25 kg/ha	Ground application only. Apply specified dosage in approximately 1600 L of water per hectare. A total of 2 applications may be made per crop season. Allow at least 14 days between applications and at least 21 days between last application and harvest.	
	fireworm	2.25 kg/ha		
GRAPE	grape berry moth, grape cane girdler, flea beetle, leafhoppers, leafrollers	625g-1.25 kg/ 1000 L	Ground application only. Apply specified dosage in 1000 L of water as a full coverage border spray. A total of 2 applications is permitted per crop per season, regardless of rate. Use in an IPM program in conjunction with mating disruption pheromone technologies for control of grape berry moth. Allow at least 14 days between applications. Allow at least 28 days between last application and harvest.	
PLUM PRUNE	eyespotted budmoth, Forbes scale, fruittree leafroller, orange tortrix, peach twig borer, plum curculio, redbanded leafroller, San José scale, stink bug, tarnished plant bug, tussock moth	600g-1.25 kg/ 1000 l	Ground application only. Apply in sufficient water for thorough coverage. For control of plum curculio, apply as a border spray. Up to two applications per year. Up to 4 kg may be applied per hectare per crop season. Allow at least 10 days between applications. Allow at least 15 days between last application and harvest. Use during dormant season is prohibited. For airblast applications, turn off outward pointing nozzles at row ends and when spraying the outer two rows. Do not graze livestock in treated orchards for 21 days after application.	
	American plum borer, lesser peachtree borer, peachtree borer	1.25 kg/ 1000 L		

### STORAGE AND DISPOSAL

STORAGE: Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food and feed. Do not store below freezing (0°C). Exposure to

moisture or excessive handling of water soluble packets may cause breakage. Store packets in original container and out of reach of children, preferably in a locked storage area.

### DISPOSAL:

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

- 1. Make outer bag unsuitable for further use.
- 2. Do not reuse outer bag for any purpose.
- 3. Dispose of outer bag in accordance with provincial requirements.
- 4. 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.

#### ACCIDENTAL SPILLS:

Handle and open container in a manner as to prevent spillage. If the container is leaking or material is spilled for any reason or cause, carefully sweep material into a pile. Refer to Precautionary Statements on label for hazards associated with the handling of this material. Do not walk through spilled material. Dispose of pesticide as directed above. In spill or leak incidents, keep unauthorized people away. IN CASE OF SPILLS, POISONING OR FIRE, TELEPHONE EMERGENCY RESPONSE NUMBER COLLECT Makhteshim Agan of North America Inc. at 1 800 535-5053 (24 HOURS A DAY).

®GUTHION is a registered trademark of Makhteshim Agan of North America Inc.

# MANA

GROUP

1B INSECTICIDE

GUTHION 50 WSB Wettable Powder Crop Insecticide in Water Soluble Packets

NET CONTENTS: 454 g

GUARANTEE: Azinphos-Methyl ... 50%



DANGER

POISON

KEEP OUT OF REACH OF CHILDREN

#### \*\*\*\*\*

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.