

51036-341

08/11/2004

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IPRODIONE 50WP AG

Fungicide

ACTIVE INGREDIENT:

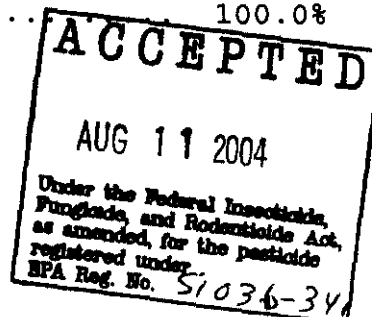
Iprodione: 3-(3,5-dichlorophenyl)-N-(1-methylethyl)-2,4-dioxo-1-imidazolidinecarboxamide..... 50.0%

INERT INGREDIENTS:..... 50.0%

TOTAL:..... 100.0%

KEEP OUT OF REACH OF CHILDREN

CAUTION



FIRST AID

IF ON SKIN OR CLOTHING:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center 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 mouth-to-mouth if possible.
- Call a poison control center or doctor for further treatment advice.

EMERGENCY TELEPHONE NUMBERS: Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact:

- (800) 424-9300 CHEMTREC (transportation and spills)
- (800) 832-HELP(4357) For human health
- (800) 345-4735 ASPCA (animal health)

EPA Reg. No. 51036-341
AD 032902

EPA Est. No. 51036-GA-001

Manufactured By:
MICRO FLO COMPANY LLC
P.O. BOX 772099
MEMPHIS, TN 38117

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION. Harmful if absorbed through skin or inhaled. Avoid contact with skin, eyes, or clothing. Avoid breathing dust. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Mixers, loaders, others exposed to the concentrate, cleaners/repairers of equipment, and applicators applying as a dip treatment must wear:

1. Coveralls over long-sleeve shirts and long pants
2. Chemical resistant gloves made of any waterproof material
3. Chemical resistant apron
4. Chemical resistant footwear plus socks
5. A dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C), or a NIOSH approved respirator with any N, R, P or HE filter.

Applicators using hand held equipment must wear:

1. Coveralls over long-sleeve shirts and long pants
2. Chemical resistant gloves made of any waterproof material
3. Chemical resistant footwear plus socks
4. Chemical resistant headgear for overhead exposure
5. A dust/mist filtering respirator (MSHA/NIOSH approval number TC-21C) or a NIOSH approved respirator with any N, R, P or HE filter

Applicators using mechanical ground equipment (groundboom, airblast, etc.) must wear:

1. Long sleeve shirt and long pants
2. Shoes plus socks.

Applicators and all other handlers not specified above must wear:

1. Long-sleeve shirt and long pants
2. Chemical resistant gloves made of any waterproof material
3. Shoes plus socks

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.

Discard clothing or other materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

ENGINEERING CONTROLS

When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS

Users should:

1. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
2. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
3. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This chemical can contaminate surface water through ground spray applications. Under some conditions, it may also have a high potential for runoff into surface water after application. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas overlaying extremely shallow ground water, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas overlaying tile drainage systems that drain to surface water.

This pesticide is toxic to aquatic invertebrates. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater. Drift or run-off from treated areas is hazardous to aquatic invertebrates in neighboring areas.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling. Read entire label before using this product.

This label must be in the possession of the user at the time of application.

Do not apply this product in a way that will contact workers or other persons, either directly or indirectly or through drift. Only

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protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval of 48 hours for grapes. The restricted entry interval for all other WPS uses is 24 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

1. Coveralls
2. Chemical resistant gloves made of any waterproof material
3. Shoes plus socks

STORAGE AND DISPOSAL

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

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or if allowed by State and local authorities, burning. If burned, stay out of the smoke.

GENERAL PRECAUTIONS AND RESTRICTIONS

Use of this product at residential sites is prohibited.

Do not use IPRODIONE 50WP AG for aerial and chemigation applications.

CROP ROTATION RESTICTIONS FOR BEANS, BROCCOLI, CARROTS, CHINESE MUSTARD, COTTON, DRY BULB ONIONS, GARLIC, LETTUCE, PEANUTS, POTATOES, AND RICE.

The following crops may be rotated after harvest: Beans, Broccoli,

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Carrots, Chinese Mustard, Cotton, Dry Onions, Garlic, Lettuce, Peanuts, Potatoes, and Rice.

GRAZING RESTRICTIONS FOR STONE FRUIT, ALMONDS, AND GRAPES.

Do not graze animals in treated orchards. Do not feed cover crops grown in treated orchards to livestock.

If you are unsure about disease conditions, contact your local extension agent.

If applying this product adjacent to a water body such as a lake, reservoir, river, permanent stream, marsh or natural pond, estuary, or commercial fish pond, there must be at least a 25-foot vegetative buffer strip between the water body and the point of application.

Do not apply this product when the wind direction is toward aquatic areas.

FUNGICIDE RESISTANCE STATEMENT

Because IPRODIONE 50WP AG is in the same dicarboximide chemical family as Ronilan®, these products may contribute to resistance development if overused.

Therefore, DO NOT EXTEND THE TOTAL NUMBER OF APPLICATIONS PER CROP ON THIS LABEL WITH Ronilan. DO NOT TANK MIX THIS PRODUCT WITH RONILAN.

HOW TO USE IPRODIONE 50WP AG

- Make sure spray equipment is clean and properly calibrated before mixing IPRODIONE 50WP AG.
- Fill spray-tank approximately $\frac{3}{4}$ full clean water.
- Add labeled rate of IPRODIONE 50WP AG. Pre-mixing labeled rate in small amount of water prior to adding to spray tank will enhance mixing process.
- Agitate mixture while adding remaining water.
- Maintain agitation during application.
- Spray solution should be applied within 24 hours of preparation to avoid potential active ingredient degradation.
- pH of spray solution should be buffered to 5.0 - 7.0 if necessary to minimize potential active ingredient degradation.
- If using a spray adjuvant (not recommended for in-furrow applications), use only nonionic products that experience or manufacturer advice has shown to be crop tolerant. Avoid acidic products.

HOW TO APPLY IPRODIONE 50WP AG IN-FURROW FOR COTTON

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Spray solution should be applied with properly calibrated spray equipment into the open furrow after the seed has been dropped and prior to furrow closure.

IPRODIONE 50WP AG IS REGISTERED
FOR USE ON THE FOLLOWING

Field and Row Crops	Peanuts Cotton
Fruit Trees and Nuts	Almonds Stone Fruits Apricots Cherries Nectarines Peaches Plums Prunes
Small Fruit	Berries Grapes Strawberries
Vegetables	Beans (Snap, Dry, and Lima) Broccoli Carrots Chinese Mustard (Florida Only) Dry Bulb Onions Garlic Lettuce (Head & Leaf types)
Ginseng	-

FIELD AND ROW CROPS

COTTON

DISEASE	APPLICATION RATE		COMMENT
	Ounces per 1000 Row Feet	Total Ounces per Row Spacing per Acre	

Damping-off, "Sore Shin" (Rhizoctonia solani)	0.25 - 0.5	40" = 3.2 - 6.5	At planting application should be made with spray nozzles mounted to direct spray solution into furrow after seed has dropped and prior to furrow closure. Use the higher rate in areas where disease pressure has been more severe or if cool and wet weather conditions may promote disease development.
		38" = 3.4 - 6.9	
		36" = 3.6 - 7.3	
		30" = 4.4 - 8.7	

RESTRICTIONS:

Apply in a minimum of 2.5 gallons of water per acre.

Do not allow grazing or feeding of cotton forage to livestock.

PEANUTS

DISEASE	APPLICATION RATE (Lbs. per Acre)	COMMENTS
Sclerotinia Blight (Sclerotinia minor)	2.0	<p>Make initial application when weather condition favor disease development.</p> <p>Make up to 2 follow up applications at 14 - 21 day intervals as a preventative program.</p> <p>Use low-pressure nozzles that produce large droplets adjusted to cover entire row.</p> <p>Vine spreaders may be used with flat fan nozzles for banding applications.</p> <p>Do not reduce 2 pint rate if banded application made.</p>

RESTRICTIONS:

Use a minimum of 40 gallons of water per acre.

Do not apply by air.

Do not apply within 10 days of harvest.

Do not feed peanut hay to livestock.

Do not exceed 3 applications per season.

Do not exceed 6 lbs. of product per season

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FRUIT TREE AND NUTS

ALMONDS

DISEASE	APPLICATION RATE (Lbs. per Acre)	COMMENTS
Brown Rot Blossom Blight (Monilinia laxa) Shot Hole (Stigmina carpophila)	1.0	Use sufficient water to achieve thorough coverage. The following spray schedule is a general guide only. Applications should be made based on local disease pressure and as part of a complete disease control program. 1 st spray - Apply at pink bud. 2 nd spray - Apply at full bloom. 3 rd spray - Apply at petal fall. 4 th spray - Apply up to 5 weeks after petal fall.
RESTRICTIONS:		
Use 20 - 400 gallons of water for ground.		
Do not make more than 4 applications per season.		

STONE FRUITS

APRICOTS, CHERRIES, NECTARINES, PEACHES, PLUMS AND PRUNES

DISEASE	APPLICATION RATE (Lbs. per Acre)	COMMENTS
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Brown Rot Blossom Blight (Monilinia spp.) Shothole (Stigmina carpophila) Scab (Ventura carpophila)	1.0 - 2.0	Make initial application when bud tissue is susceptible to disease development (i.e. pink, white or red bud). If conditions favorable for disease development persist or recur, apply at full bloom or at petal fall. Use as an integral part of a complete disease control program. Apply as a foliar spray in sufficient water to obtain thorough coverage of blossoms and foliage. Use the higher rate and shorter spray interval when disease pressure is high. IPRODIONE 4L may be alternated with other registered fungicides if additional applications are needed.
RESTRICTIONS: Do not make more than 2 applications per season. Do not apply after petal fall.		

GINSENG

DISEASE	APPLICATION RATE (Lbs. per Acre)	COMMENTS
Alternaria Blight (Alternaria panax)	1.5 - 2.0	Apply as a foliar spray with ground equipment as part of a complete spray program. Thorough coverage is essential. May be used as an alternating treatment with another registered fungicide on a 14-day spray interval.
Alternaria Blight (Alternaria panax)	1.0 - 1.5	Apply with another registered fungicide as a tank mix on a 7 - 10 spray interval.

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RESTRICTIONS:

Use in a minimum of 10 gallons of water per acre.
 Do not make more than 5 applications per season.
 Do not apply more than 10 pints of product per season.
 Do not apply within 36 days of harvest.

SMALL FRUIT

CANEBERRY: Blackberry, loganberry, red and black raspberry; cultivars and/or hybrids of these.
BUSHBERRY: Blueberry, highbush and lowbush; currant, elderberry; gooseberry; huckleberry.

DISEASE	APPLICATION RATE (Lbs. per Acre)	COMMENTS
Botrytis Fruit Rot (Botrytis cinerea)	1.0 - 2.0	Make the initial application at early bloom (5 to 10% bloom) and repeat at full bloom. Up to two additional applications can be applied at 14 day intervals or as required. Use the higher rate when disease pressure is severe.

RESTRICTIONS:

Apply in a minimum of 100 gallons of water per acre.
 Do not make more than 4 applications per season.
 The final application can be made up to and including the day of harvest.

GRAPES

DISEASE	APPLICATION RATE (Lbs. per Acre)	COMMENTS
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Bunch Rot (Botrytis cinera)	Wine and Sherry Grapes: 1.0 - 2.0 1.5 - 2.0 1.5 - 2.0 1.5 - 2.0	The spray schedule below is only a general guideline. Applications should be based on local conditions. Contact your local extension agent for a recommendation specific to the area being treated. Spray Schedule: 1) Early mid-bloom 2) Prior to bunch closing 3) Beginning of fruit ripening (veraison) 4) Final application prior to harvest as needed.
	Table and Raisins Grapes: 1.0 - 2.0	Apply only one application per season at early to mid-bloom.
RESTRICTIONS: Apply in a minimum of 50 gallons of water per acre to achieve thorough coverage. Do not make more than 4 applications per season for wine and sherry grapes. Do not make more than 1 application per season for table and raisin grapes. The final application may be made up to 7 days before harvest on wine and sherry grapes.		

STRAWBERRIES

STRAWBERRY - FOLIAR

DISEASE	APPLICATION RATE (Lbs. per Acre)	COMMENTS
Gray Mold (Botrytis cinerea)	1.5 - 2.0	Apply when conditions favor disease development.
Stem End Rot (Gnomonia comari)		Thorough coverage is essential for control.
Phomopsis Soft Rot (Phomopsis obscurans)		Use higher rate when disease pressure is high.
Purple Leaf Spot (Mycosphaerella spp.)		*IPRODIONE 4L will suppress or give partial control of this disease.
Anthracnose* (Colletotrichum spp.)		
RESTRICTIONS: Apply in a minimum of 100 gallons of water per acre. Do not make more than 1 applications per season. Do not apply after first fruiting flower.		

STRAWBERRY DIP TREATMENT

DISEASE	APPLICATION RATE (Pints per 100 gallons water)	COMMENTS
Botrytis Crown Rot (Botrytis spp.)	2.0	Dip the transplants in the solution for 5 minutes and plant immediately.
RESTRICTIONS: Do not make more than 1 application.		

VEGETABLES

BEANS (SNAP, DRY AND LIMA)

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DISEASE	APPLICATION RATE (Lbs. per Acre)	COMMENTS
Gray Mold (Botrytis cinera)	1.5 - 2.0	Initial application should be made from first bloom to when 10% of plants have at least one bloom.
White Mold (Sclerotinia sclerotorum)		Make second application if necessary 5-7 days later or up to peak bloom.
		Ground equipment should have a three-nozzle/row boom arranged with one directly over the row and a drop on each side of the row. 50-100 PSI spray pressure is recommended for canopy penetration.
		Use the higher rate and shorter spray interval when disease pressure severe.
		Thorough coverage is essential for control.
RESTRICTIONS:		
Apply in a minimum of 40 gallons of water per acre.		
Do not make more than two applications per season. Make the last application no later than peak bloom.		
Do not allow foraging for 14 days after last application. Do not feed snap or succulent bean hay to livestock. Do not feed dry bean hay to livestock until 45 days after last application. Do not use this product on cowpeas.		

BROCCOLI

DISEASE	APPLICATION RATE (Lbs. per Acre)	COMMENTS
Black Leg (Leptosphaeria maculans)	2.0	<p>Make initial application immediately after thinning at the 2 to 4 leaf stage. If needed, a second application can be made up to the day of harvest.</p> <p>Apply with a tractor-mounted boom sprayer with 2 flat fan nozzles per row (one on either side) directed at the base of the plant and the adjacent soil surface. Position nozzles to ensure thorough coverage of the stem.</p>

RESTRICTIONS:

Apply in a minimum of 40 gallons of water per acre.
 Do not make more than 2 applications per crop.
 This product can be applied up to the day of harvest.
 Do not drench.

CARROTS

DISEASE	APPLICATION RATE (Lbs. per Acre)	COMMENTS
Alternaria Blight (Alternaria dauci) Black Crown Rot (Alternaria radicina)	1.0 - 2.0	<p>Make initial application when conditions favor disease development. Make additional applications every 7 - 14 days as needed.</p> <p>Apply as a foliar spray in sufficient water to obtain thorough coverage.</p> <p>Use the higher rate and/or shorter spray interval under severe disease conditions.</p>

Alternaria Blight (Alternaria dauci)	1.0	TANK MIX PROGRAM May be applied as a tank mix with another fungicide for control of Alternaria on carrots.
Black Crown Rot (Alternaria radicina)		
RESTRICTIONS:		
Apply in a minimum of 10 gallons of water per acre.		
Do not make more than 4 applications per season at the 2 pint rate.		
Do not make more than 10 applications per season in a TANK MIX PROGRAM.		
This product can be applied up to the day of harvest.		

CHINESE MUSTARD
(For Use In Florida Only)

DISEASE	APPLICATION RATE (Lbs. per Acre)	COMMENTS
Alternaria Leaf Spot (Alternaria spp.)	1.0	Make initial application when conditions favor disease development. Continue applications on a 10-14 day interval as long as conditions favor disease development. Thorough coverage is essential for control.
RESTRICTIONS:		
Use in a minimum of 50 gallons of water per acre.		
Do not make more than 4 applications of this product per season.		
Do not apply within 10 days of harvest.		

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DRY BULB ONIONS

DISEASE	APPLICATION RATE (Lbs. per Acre)	COMMENTS
Botrytis Leaf Blight (Botrytis squamosa) Purple Blotch (Alternaria porri) Botrytis Neck Rot (Botrytis allii)	1.5	When applied by ground, use a boom sprayer with nozzle(s) adjusted to provide complete coverage of each row. Make initial spray as soon as conditions favor disease development. Continue applications on a 14-day interval as long as conditions favor disease development.
Botrytis Leaf Blight (Botrytis squamosa) Purple Blotch (Alternaria porri) Botrytis Neck Rot (Botrytis allii)	1.0	Tank Mix Program: May be applied as a tank mix with another fungicide registered for the control of Botrytis Leaf Blight, Botrytis Neck Rot or Purple Blotch (as described above for ground application). Make initial spray as soon as conditions favor disease development. Continue applications on a 7 - 10 day interval as long as conditions favor disease development.
RESTRICTIONS: Apply in a minimum of 50 gallons of water per acre. Do not make more than 5 applications per season at the 1.5 pint rate. Do not make more than 10 applications per season under the Tank Mix Program. Do not apply within 7 days of harvest.		

GARLIC

DISEASE	APPLICATION RATE (Lbs. per Acre)	COMMENTS
White Rot (Sclerotium cepivorum)	4.0*	Apply as an in-furrow spray at planting in sufficient water to obtain thorough coverage of the open furrow and covering soil.
RESTRICTIONS:		
Apply in a minimum of 20 gallons of water per acre.		
Do not make more than 1 application per year.		

* This rate is based on pints product/treated acre and represents the rate for a 38-40 inch row spacing.

LETTUCE (head & leaf types)

DISEASE	APPLICATION RATE (Lbs. per Acre)	COMMENTS
Lettuce Drop (Sclerotinia spp.) Bottom Rot (Rhizoctonia solani)	1.5 - 2.0*	Thorough coverage is essential for control. Make ground application with a tractor mounted boom sprayer equipped with three nozzles per seed line (one centered over the row and one on each side of the row). Direct two nozzles to ensure thorough coverage of the lower portion of the plants and the adjacent soil surface. Make initial application between the 3 leaf stage to just after thinning. Repeat 10 days later. If conditions still favor disease development, a third application should be made 10 days after the second spray. Under severe disease conditions the higher rates should be used.

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RESTRICTIONS:

Apply in a minimum of 40 gallons of water per acre.
 Do not make more than 3 applications to each crop.
 Do not apply within 14 days of harvest.
 Do not cultivate after application. If necessary make an application during or immediately after cultivation.
 Do not drench.

*When applying in a band do not reduce the per acre rate.

POTATOES

DISEASE	APPLICATION RATE (Lbs. per Acre)	COMMENTS
Early Blight (<i>Alternaria solani</i>)	1.0 - 2.0	<p>Make application with a boom sprayer with nozzle(s) adjusted to provide thorough coverage of the foliage, especially the older leaves.</p> <p>Use the higher rate when Early Blight disease pressure is high.</p> <p>Begin applications when conditions first become favorable for disease development. Up to 3 subsequent applications can be applied at 10-14 day intervals or as required.</p>
White Mold (<i>Sclerotinia sclerotiorum</i>)	2.0	<p>Make application with a boom sprayer with nozzle(s) adjusted to provide thorough coverage of the lower stems and branches and adjacent soil surface.</p> <p>Thorough coverage of the foliage is essential for control.</p> <p>Apply just prior to row closing, or at early first sign of disease, and repeat on a 14-21 day interval, if favorable conditions for disease development continues.</p>

RESTRICTIONS:

Use in a minimum of 10 gallons of water per acre.
 A maximum of 4 total applications can be made per season.
 Do not apply within 14 days of harvest.
 Do not irrigate for 24 hours after application.

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CONDITIONS OF SALE AND WARRANTY

The Directions For Use of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or use of the product in a manner inconsistent with its labeling, all of which are beyond the control of MICRO FLO COMPANY LLC ("Micro Flo") or the Seller. All such risks shall be assumed by the Buyer. Micro Flo warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions for Use, subject to the inherent risks, referred to above. MICRO FLO MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. IN NO CASE SHALL MICRO FLO OR THE SELLER BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. Micro Flo and the Seller offer this product, and the Buyer and User accept it, subject to the foregoing Conditions of Sale and Warranty which may be varied only by agreement in writing signed by a duly authorized representative of Micro Flo.