BOTTLE LABEL

GROUP 4 HERBICIDE

WILSON 2,4-D LV 600 Emulsifiable Concentrate

Low volatile farm and industrial weed killer for selective spraying of wheat, barley, rye, corn, established grasses on pastures and rangeland, turf and for the control of certain annual and perennial weeds as well as for woody plant growth.

AGRICULTURAL

REGISTRATION NO. 21022 PEST CONTROL PRODUCTS ACT

GUARANTEE: 2,4-D, present as the 2-ethylhexyl ester ... 564 g a.e./L



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

NET CONTENTS: 1 L – 205 L

SANEX AGRO INC. 10 Craig Street Brantford, Ontario N3R 7J1 519-757-0077

ENVIRONMENTAL HAZARDS:

- Toxic to small mammals, birds, aquatic organisms and non-target terrestrial plants.
- Observe buffer zones specified under DIRECTIONS FOR USE.
- This product will harm other broadleaved plants in the vicinity of the treatment area. If applying this product using a handheld sprayer, do not directly spray or allow the spray to drift onto ornamentals or gardens.
- Do not spray exposed roots of trees and ornamentals.

LEACHING:

The use of this chemical may result in contamination of groundwater particularly in areas where soils are permeable (e.g. sandy soil) and/or the depth to the water table is shallow.

RUNOFF:

- To reduce runoff from treated areas into aquatic habitats avoid application to areas with moderate to steep slope, compacted soil, or clay.
- Avoid application of this product when heavy rain is forecast.
- Contamination of aquatic areas as a result of runoff may be reduced by including a strip of untreated vegetation between the treated area and the edge of the water body.
- To prevent runoff, avoid spraying on driveways, sidewalks or other hard surfaces. Do not irrigate within 24 hours after application.

PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN. Personal Protective Clothing and Equipment: When mixing/loading, wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes and protective eye wear (face shield or safety glasses). Rinse gloves before removal. Coveralls should also be worn when open pouring from containers. When handling more than 470 L a.e. per day (approximately 120 ha at highest agricultural rate – 2.24 kg a.e./ha), workers must also use a closed system.

When applying the dilute spray solution or during clean-up and repairing equipment, wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes. Rinse gloves before removal. Gloves are not required during application when applicator is in an enclosed tractor or in an enclosed airplane cockpit.

Application Using Handheld Equipment: Applicators must wear coveralls over a long-sleeved shirt, long pants and chemical-resistant gloves. **Application Using Groundboom Equipment:** Applicators must wear coveralls over a long-sleeved shirt and long pants. Chemical-resistant gloves must also be worn during clean-up and repair activities. **Aerial Application:** Applicators must wear coveralls over a long-sleeved shirt and long pants. Chemical-resistant gloves must also be worn during clean-up and repair activities. No human flaggers are permitted.

Causes irritation of skin and eyes. Do not get in eyes. Avoid contact with skin and clothing. 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 of equipment.

Operator Use Precautions:

- Wear freshly laundered clothing and clean protective equipment daily.
- Rinse gloves before removal.
- Wash hands before eating, drinking, using tobacco or using the toilet.
- If herbicide penetrates clothing remove immediately, then wash thoroughly and put on clean clothing. Throw away clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate.
- After using this product, remove clothing and launder separately and promptly and thoroughly wash hands and exposed skin with soap and water. Follow manufacturer's instructions for cleaning personal protective clothing and equipment. If no such instructions for washables are provided use detergent and hot water. Keep and wash personal protective equipment separate from household laundry.
- After work, remove all clothing and shower using soap and water.
- For Aerial Applications Do not allow the pilot to mix chemicals to be loaded onto the aircraft. Loading of premixed chemicals with a closed system is permitted. It is desirable that the pilot have communication capabilities at each treatment site at the time of application. Field crew and mixer/loaders must wear chemical resistant gloves, coveralls and goggles or face shield during mixing/loading, cleanup and repair. Follow the more stringent label precautions in cases where the operator precautions exceed the generic label recommendations on the existing ground boom label. All personnel on the job site must wash hands and face thoroughly before eating and drinking. Protective clothing, aircraft cockpit and vehicle cabs must be decontaminated regularly. Do not use human flaggers.

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.

DIRECTIONS FOR USE: SEE ATTACHED BROCHURE

IMPORTANT: Keep in original container during storage. Do not allow spray, spray mist, visible or invisible vapours or air containing mist or vapours to contact plants other than those being sprayed. If 2,4-D or MCPA susceptible plants are growing within a distance of 400 m from the area being sprayed, spray only when there is a light breeze away from the susceptible plants; avoid application during hot, dry weather. Susceptible crops include:

BeansGrapesTobaccoCabbageSugar beetsTomatoesCauliflowerSunflowersTurnips

as well as many other field, vegetable, ornamental and fruit crops. Do not contaminate any body of water, or watercourse, water used for livestock or for domestic purposes. Do not store open container near food, feedstuffs, seeds, fertilizers or pesticides including insecticides, fungicides and herbicides other than those containing 2,4-D or brush killers. Sprayers which have contained 2,4-D LV 600 should not be used to apply other pesticides to 2,4-D or MCPA susceptible crops.

FIRST AID: If swallowed, call a poison control centre or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give any liquid to the person. 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 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. **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. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION: This product may cause mild irritation to the eyes. Overexposure to 2,4-D may cause coughing, burning, dizziness or temporary loss of muscle coordination. Other possible effects of overexposure include fatigue, muscle weakness or nausea. This product contains petroleum distillates. Vomiting may cause aspiration pneumonia. Treat symptomatically.

DISPOSAL: Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank. Follow provincial instruction for any required additional cleaning of the container prior to its disposal. Make the empty container unsuitable for further use. Dispose of the container in accordance with provincial requirements. 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.

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.

GROUP 4 HERBICIDE

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SANEX AGRO INC. 10 Craig Street Brantford, Ontario N3R 7J1 519-757-0077

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Leaching:

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Run-Off:

To reduce runoff from treated areas into aquatic habitats, avoid application to areas with a moderate to steep slope, bare soil, compacted soil, or clay. Avoid application of this product when heavy rain is forecast. Contamination of aquatic areas as a result of runoff may be reduced by including a strip of untreated vegetation between the treated area and the edge of the water body. To prevent runoff, avoid spraying on driveways, sidewalks or other hard surfaces. Do not irrigate within 24 hours after application.

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DIRECTIONS FOR USE: General instructions – crop use

DO NOT apply this product directly to freshwater habitats such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands, estuaries or marine habitats. DO NOT contaminate irrigation/drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes. **Field Sprayer Application:** DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. DO NOT apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) coarse classification. Boom height must be 60 cm or less above the crop or ground. **Aerial application:** DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. DO NOT apply when wind speed is greater than 16 km/h at flying height at the site of application. DO NOT apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) coarse classification. To reduce drift caused by turbulent wingtip vortices, the nozzle distribution along the spray boom length MUST NOT exceed 65% of the wing- or rotorspan.

Restricted-Entry Interval (REI): All crops – Re-entry is not permitted until 12 hours after application for all agricultural scenarios.

• Corn (field) - 14-day REI for hand harvesting. DO NOT detassel field corn by hand.

Buffer Zones to Protect Sensitive Habitat: Use of the following spray methods or equipment DO NOT require a buffer zone: handheld or backpack sprayer and spot treatment. Seasonal water bodies require buffer zones if there is water in them during application. Water bodies which do not fill on an annual basis need not be buffered.

For application to rights-of-way, buffer zones for protection of sensitive terrestrial habitats are not required; however, the best available application strategies that minimize off-site drift, including meteorological conditions (e.g. wind direction, low wind speed) and spray equipment (e.g. coarse droplet sizes, minimizing height above canopy), should be used. Applicators must, however, observe the specified buffer zones for protection of sensitive aquatic habitats.

The buffer zones specified in the tables below are required between the point of direct application and the closest downwind edge of sensitive terrestrial habitats (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, riparian areas and shrublands), sensitive

freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands), and estuarine/marine habitats.

Method of	Crop			Buffer Zones† (metres) Required for the Protection of:				
Application	plication			Freshwater Habitat of Depths:		Estuarine/Marine Habitats of Depths:		Terrestrial Habitat
				Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m	
Field sprayer*	Turf			1	0	1	0	1
	Field crops (cereal grains [wheat, barley and rye], corn)			1	1	1	1	1
	Non-cropland (including rights-of- way** and brush control), established grasses on pastures and rangeland			1	1	1	1	2
Aerial	Field crops (cereal grains [wheat, barley and rye])		Fixed wing	10	0	1	0	45
			Rotary wing	10	0	1	0	40
	Established grasses on pastures and rangeland		Fixed wing	15	0	1	0	60
			Rotary wing	15	0	1	0	50
	Non- cropland (including rights-of- way** and brush control)	3.97 L/ha	Fixed wing	70	0	1	0	150**
			Rotary wing	35	0	1	0	80**
		7.94 L/ha	Fixed wing	125	1	15	1	225**
			Rotary wing	50	1	5	1	100**

^{*} For field sprayer application, buffer zones can be reduced with the use of drift reducing spray shields. When using a spray boom fitted with a full shield (shroud, curtain) that extends to the crop canopy, the labelled buffer zone can be reduced by 70%. When using a spray boom where individual nozzles are fitted with cone-shaped shields that are no more than 30 cm above the crop canopy, the labelled buffer zone can be reduced by 30%.

Ground Application: Apply 50–200 L of spray solution per hectare depending on the type of application equipment used. Use sufficient water for even distribution. Spray at low pressures (200–275 kPa) when weeds are actively growing.

Aerial Application: Apply only by fixed-wing or rotary aircraft equipment which has been functionally and operationally calibrated for the atmospheric conditions of the area and the

^{**} For application to rights-of-way, buffer zones for protection of sensitive terrestrial habitats are not required.

[†] When a tank mixture is used, consult the labels of the tank-mix partners and observe the largest (most restrictive) buffer zone of the products involved in the tank mixture.

application rates and conditions of this label. Label rates, conditions and precautions are product specific. Read and understand the entire label before opening this product. Apply only at the rate recommended for aerial application on this label. Where no rate for aerial application appears for the specific use, this product cannot be applied by any type of aerial equipment. Ensure uniform application. To avoid streaked, uneven or overlapped application, use appropriate marking devices. DO NOT apply when wind speed is greater than 16 km/h at flying height at the site of application.

Use Precautions for Aerial Application (to cereal crops, pasture, rangeland and non-crop land): Apply only when meteorological conditions at the treatment site allow for complete and even crop coverage. Apply only under conditions of good practice specific to aerial application as outlined in the National Aerial Pesticide Application Manual, developed by the Federal/Provincial/Territorial Committee on Pest Management and Pesticides. Do not apply to any body of water. Avoid drifting of spray onto any body of water or other non-target areas. Do not contaminate water through cleaning of equipment or disposal of wastes. Specified buffer zones should be observed. Coarse sprays are less likely to drift, therefore, avoid combinations of pressure and nozzle type that will result in fine particles (mist). Do not apply during periods of dead calm (as the cloud of suspended droplets may drift onto sensitive plants when the wind comes up) or when wind velocity and direction pose a risk of spray drift. Do not spray when the wind is blowing towards a nearby sensitive crop, garden, terrestrial habitat (such as shelter-belt) or aquatic habitat. Avoid placing nozzles where spray will enter wing tip vortices. Do not angle nozzles forward into the airstream and do not increase spray volume by increasing nozzle pressure. A spray thickening agent or drift retardant may be used with this product to aid in reducing spray drift. Do not use human flaggers. Avoid Spray Drift: Apply only when there is little or no hazard from spray drift. Small quantities of the spray, which may not be visible, may seriously injure susceptible crops and damage sensitive non-target habitat. A method must be used to detect air movement, lapse conditions, or temperature inversions (stable air) such as the use of balloons or a continuous smoke column at or near the spray site or a smoke generator on the spray equipment. If the smoke develops into layers or indicates a potential for hazardous spray drift, do not spray. **Buffer Zones:** Appropriate buffer zones should be established between treatment areas and aquatic systems and treatment areas and significant wildlife habitat. Specified buffer zones should be observed. NOTE: Read and understand the entire label before opening this product. If you have questions, call the manufacturer at 519-757-0077 or obtain technical advice from the distributor or your provincial agricultural representative. Application of this specific product must meet and/or conform to the following:

Volume: Apply the recommended rate in a minimum spray volume of 30 L of spray solution per hectare. Use boom pressure of 235 kPa or less.

To prepare a spray solution: Add half the required amount of water to the spray tank then add the 2,4-D LV 600 with agitation and finally add the balance of water with continued agitation.

Transfer system: For containers larger than 20 L: Use a transfer system that avoids open pouring when transferring the liquid concentrate from such containers into the spray tank.

WARNING: If preparing straight oil mixtures do not let water get into the product or the finished mixture. NOTE: This product in water forms an emulsion not a solution, which tends to separate on standing. Agitate to prevent such separation and ensure uniformity of spray mixture.

Spot treatment: For knap sack application of 2,4-D LV 600 for spot treatment of weeds such as thistles, mix 200 mL of product in 10 L of water, and wet all foliage thoroughly.

Selective weed control in small grains: Weeds differ in their susceptibility to 2,4-D LV 600 and not all types can be controlled satisfactorily in crops. The amount of 2,4-D LV 600 to use will depend upon the susceptibility and whether the crops will tolerate this amount. (SEE CHART.)

Wheat, barley and rye: Spray from the 3-leaf expanded stage (15 cm tall) to just before the flag-leaf (shot-blade) stage. To avoid crop injury do not treat during boot and flowering stages. Winter wheat and fall rye should be treated in early spring as soon as weeds appear and before the crop reaches the shot-blade stage. Maximum 1 application per year.

Pre-harvest intervals: Do not permit lactating dairy animals to graze fields within 7 days after application. Do not harvest forage or cut hay within 30 days after application. Withdraw meat animals from treated fields at least 3 days before slaughter.

APPLICATION: Suggested amounts of 2,4-D LV 600 for weed control in cereals (not underseeded to legumes)

MIXED WEEDY GR	OWTH	STAGE OF WEED				
		KIND OF	L/ha			
		WEATHER				
Susceptible weeds suc	h as					
Annual sunflower	Mustard (except dog and	Seedling				
Bluebur	green tansy)	(2–4 leaves)	600 mL			
Cocklebur	Plantain	Growing rapidly				
*Field horsetail	*Prickly lettuce					
Field pennycress	Ragweeds					
Flixweed	Russian thistle		to			
Goatsbeard	Russian knapweed					
*Hoary cress	Shepherd's purse					
Kochia	Sweet clover	Weeds in bud				
Lamb's quarters	Vetch	Dry cool weather	900 mL			
	Wild radish	Heavy infestation				
Harder to kill weeds such as						

*Perennial sow thistle	Hairy galinsoga	Seedling	
Annual sow thistle	Hedge bindweed	(2–4 leaves)	1.0†
Biennial wormwood	Lady's thumb	Growing rapidly	
*Blue lettuce	*Leafy spurge		
*Canada thistle	Oakleaf goosefoot		
Dandelion	Redroot pigweed		to
Dock	Smart weed		
Dog mustard	Tansy		
*Field bindweed	Tartary buckwheat	Weeds in bud	
Field pepper grass	Tumbleweed	Dry cool weather	1.5†
Gum weed	‡Wild buckwheat	Heavy infestation	

[†] The higher rates may cause deformities and delayed maturity which will be offset by a higher relative yield from a less weedy crop.

Corn: DO NOT apply by air. Post Emergence. Treat with 700 mL per hectare when corn plants are 15–20 cm tall and most weeds have germinated but are still in seedling stage. Use drop nozzles to keep spray off corn foliage. Do not cultivate until at least 2 weeks after treatment. Maximum 1 application per year.

Pre-harvest intervals: Do not permit lactating dairy animals to graze fields within 7 days after application. Do not harvest forage within 30 days after application. Withdraw meat animals from treated fields at least 3 days before slaughter.

Established grasses on pastures and rangeland – Eastern Canada: For the control of yellow rocket and other susceptible winter annual weeds spray with 1.7 L of 2,4-D LV 600 per hectare. Application should be made in early fall. <u>Maximum 2 applications per year.</u>

Established grasses on pastures and rangeland – Western Canada: To control susceptible perennial or winter annuals spray 800 mL to 1.5 L per hectare before growth of legumes and grasses start in the spring. <u>Maximum 2 applications per year.</u>

Established grasses on pastures and rangeland: Apply 1.5 to 2.75 L per hectare in late summer/early fall or in early spring. <u>Maximum 2 applications per year.</u>

Pre-harvest intervals: Do not permit lactating dairy animals to graze fields within 7 days after application. Do not harvest forage or cut hay within 30 days after application. Withdraw meat animals from treated fields at least 3 days before slaughter.

Turf: To control susceptible weeds use 1.5 to 2.75 L/ha in enough water for coverage. This product is only effective when applied to the leaves of actively growing weeds. This product will not prevent new weeds – apply only when weeds are present. If weed populations do not warrant a broadcast application (e.g., entire lawn), consider spot treatments that target only weedy areas. DO NOT apply by air. Maximum 2 applications per year.

^{*} Top growth control only.

[‡] Better control will result from two treatments applied one week apart at 700 mL/ha 2,4-D.

Warning: Do not use on lawns of creeping grasses such as bent except for spot spraying or on freshly seeded turf until grass has become well established. Most legumes are usually damaged or killed.

Re-entry interval: Do not allow people (other than applicator) or pets on treatment area during application. Do not enter treated areas until spray has thoroughly dried.

Maximum application frequency to turf: For good turf/lawn management, normally two applications per year per treatment site are adequate. This does not include spot treatments.

General instructions – Non-crop use

Ground application: Apply 50–3000 L of spray solution per hectare depending on the type of the application system being used. Use sufficient water to ensure uniform coverage.

Aerial application: INCLUDING FIXED AND ROTARY WING AIRCRAFT. (NOTE: See General Instructions – Crop use. Use Precautions for Aerial Application.)

Roadside and general weed control in non-cropland: For taller weed growth, such as in vacant lots, on roadsides and along fence rows, rights-of-way for transportation, rights-of-way for utility lines, in airports, in wastelands or in industrial parks, sufficient spray should be used to wet all foliage thoroughly. Use 2,4-D LV 600 at the rate of 3.75 L/ha. Deep-rooted perennial weeds such as bindweed and Canada thistle may require repeated applications as new growth appears. DO NOT apply more than two applications per Maximum amount of product applied/day/person with handheld equipment: 4.8 L.

Pre-harvest intervals: Do not permit lactating dairy animals to graze fields within 7 days after application. Do not harvest forage or cut hay within 30 days after application. Withdraw meat animals from treated fields at least 3 days before slaughter.

Woody plants: To control 2,4-D susceptible species, spray brush up to 2.5 cm tall after foliage is well developed. When using ground application equipment mix 7.9 L of 2,4-D LV 600 in 1000 L of water/ha and spray to wet all foliage shoots, stems and bark. With good growing conditions and high soil moisture, sprays may be used up to 2 or 3 weeks before normal frost time, but spraying soon after leaves are fully open in the spring usually gives best results. Control may be less effective during hot dry weather, when deep soil moisture is deficient. When using aerial application equipment, apply 6.75 L of 2,4-D LV 600 in a minimum of 30 L of spray solution per hectare. (See Use Precautions for Aerial Application.) DO NOT apply more than two applications per year. Handheld equipment: Maximum amount of product applied/day/person without a respirator: 8.9 L (i.e. 5000 g a.e. / 564 g a.e./L). Maximum amount of product applied/day/person with a respirator: 14.2 L (i.e. 8000 g a.e. / 564 g a.e./L).

IMPORTANT: Keep in original container during storage. Do not allow spray, spray mist, visible or invisible vapours or air containing mist or vapours to contact plants other than those being sprayed. If 2,4-D or MCPA susceptible plants are growing within a distance of 400 m from

the area being sprayed, spray only when there is a light breeze away from the susceptible plants; avoid application during hot, dry weather. Susceptible crops include:

BeansGrapesTobaccoCabbageSugar beetsTomatoesCauliflowerSunflowersTurnips

as well as many other field, vegetable, ornamental and fruit crops. Do not contaminate any body of water, or watercourse, water used for livestock or for domestic purposes. Do not store open container near food, feedstuffs, seeds, fertilizers or pesticides including insecticides, fungicides and herbicides other than those containing 2,4-D or brush killers. Sprayers which have contained 2,4-D LV 600 should not be used to apply other pesticides to 2,4-D or MCPA susceptible crops.

RESISTANCE MANAGEMENT: For resistance management, WILSON 2,4-D LV 600 EC is a Group 4 herbicide. Any weed population may contain or develop plants naturally resistant to WILSON 2,4-D LV 600 EC and other Group 4 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same field. 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 herbicide resistance:

- Where possible, rotate the use of WILSON 2,4-D LV 600 EC or other Group 4 herbicides with different herbicide groups that control the same weeds in a field.
- Use tank mixtures with herbicides from a different group when such use is permitted.
- Herbicide use should be based on an IPM program that includes scouting, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical), cultural, biological and other chemical control practices.
- Monitor treated weed populations for resistance development.
- Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment and planting clean seed.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or integrated weed-management recommendations for specific crops and weed biotypes.
- For further information or to report suspected resistance, contact an Agrium Advanced Technologies representative at 1-800-461-6471 or at www.agriumat.com.

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