

PMRA Approved Label
Sub No. 2013-1644

Container label

GROUP	4	HERBIDICE
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ALBAUGH 2,4-D Amine 600
LIQUID HERBICIDE

AGRICULTURAL

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

GUARANTEE: 2,4-D (Present as Dimethylamine salt): 560 g a.e./L

REGISTRATION NO: 31332 PEST CONTROL PRODUCTS ACT

WARNING



POISON

NET CONTENTS: 4-1050 LITRES

Albaugh, Inc.
P.O. Box 2127
Valdosta, GA 31604
USA
1-800-247-8013

PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN. Avoid contact with eyes, skin and clothing. May cause skin irritation. Avoid inhaling vapours or mist.

Protective Clothing and Equipment:

Handling the concentrate (mixing and loading):

- Wear coveralls over a long-sleeved shirt, long pants, chemical resistant gloves, socks and shoes.
- Rinse gloves before removal.
- Coveralls should be worn when pouring from containers.
- When handling more than 265 kg a.e. (473 L of ALBAUGH, INC. 2,4-D Amine 600 Liquid Herbicide) per day, workers must also use a closed system.

Handling the dilute spray solution (during application or repairing or cleaning equipment):

- Wear coveralls over a long-sleeved shirt, long pants, chemical resistant gloves, socks and shoes.

For aerial application no human flaggers are permitted. Rinse gloves before removal. Gloves are not required during application when applicator is in an enclosed tractor or an enclosed airplane cockpit.

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.

GENERAL PRECAUTIONS:

- Handle with care and mix only in a closed container.
- Use only in a well ventilated area.
- May cause damage to susceptible crops, ornamentals and other plants, in minute quantities. Avoid drift to desirable vegetation.
- Do not spray during periods of high wind. Coarse sprays are less likely to drift.
- Do not contaminate any body of water.
- Avoid contamination of foods.
- Keep in original container during storage.
- Do not re-use container unless otherwise specified.
- Store the container tightly closed away from seeds, fertilizers, plants and foodstuffs.
- Store above 0 degrees C.

- SHAKE WELL BEFORE USING.
- Clean spray equipment thoroughly after use.
- 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 website at: www.croplife.ca.

Apply only when there is low risk of drift to areas of human habitation or activity such as houses, cottages, schools and recreational areas. Take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings.

Re-Entry Interval:

For hand detasseling in field corn, do not enter or allow worker entry to treated areas for a restricted entry interval (REI) of 14 days. For hand harvesting, hand pruning, thinning, training (full foliage) and tying (any foliage) in raspberries, do not enter or allow worker entry into treated areas for an REI of 6 days. For all other crops and worker activities, do not enter treated areas within 12 hours after application.

ENVIRONMENTAL HAZARDS:

Refer to the attached booklet for complete environmental hazards.

FIRST AID:

- In case of poisoning, call a physician or poison control centre IMMEDIATELY.
- 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.
- 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 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.

Take the container, label, or product name and Pest Control Product registration number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION:

Treatment of any systemic intoxication should be primarily symptomatic and supportive. 2,4-D may cause severe 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 and nausea.

RINSING AND DISPOSAL INFORMATION:

For Recyclable Containers:

Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

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NOTICE TO USER:

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LABEL INDEX - ALBAUGH, INC. 2,4-D Amine 600 Liquid Herbicide

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DIRECTIONS FOR USE:

SECTION 1 - SPRING WHEAT, BARLEY, RYE

Treatment Stage: Ground or aerial application. Treat from the 4th leaf expanded stage to the early flag leaf (shot blade) stage. (Do not treat crop underseeded to legumes.)

GO TO SECTION 4

SECTION 2 - WINTER WHEAT, FALL RYE

Treatment Stage: Ground or aerial application. Treat in the spring from full tillering until just before the flag leaf (shot blade) stage. Do not apply to seedling winter cereals in the fall.

GO TO SECTION 4

SECTION 3 - FIELD CORN

Treatment Stage: Ground application only. As an overall spray, before the corn is 15 cm tall (leaf extended) and/or before the 6-leaf stage. Application as an overall spray at later stages will damage the corn. For later applications (corn 15-75 cm, leaf extended), use a shielded spray or a directed spray with drop pipes. Keep spray off corn foliage. Do not apply within 2 weeks of silking and tasselling. Avoid cultivation for 2 weeks following spraying. Use at least 100L/ha water. Do not add oil or surfactant.

GO TO SECTION 4

SECTION 4 - WEEDS CONTROLLED AND RATES OF APPLICATION

Use the dose required to control the weeds present. To minimize the risk of crop injury, do not exceed the recommended rate listed for the crop. Higher rates may be required to control certain weed species. Rates above those recommended for a crop may result in significant crop injury, and

should only be used when the risk of crop injury will be offset by the benefits of enhanced weed control. Apply in warm weather when the crop and weeds are growing well, and the weeds are at a susceptible stage. Avoid application during drought conditions or during exceptionally hot weather.

Susceptible Weeds: Annual sow-thistle, bluebur (up to 4 leaf stage), burdock (before the 4-leaf stage), cocklebur, common ragweed, daisy fleabane, false flax, false ragweed, flixweed, goat's-beard, giant ragweed, kochia, lamb's-quarters, mustards (except dog and tansy), narrow-leaved hawk's-beard (susceptible in the fall and at 1-2 leaf stage in the spring), common plantain, prickly lettuce, redroot pigweed, russian pigweed, russian thistle, shepherd's-purse, stinging nettle, stinkweed, sweet clover (seedling), thyme-leaved spurge, volunteer canola, wild radish, wild (prairie) sunflower.

Optimum Stage of Weed Growth: 2 to 4 leaf, growing actively.*

Rates to Use on Susceptible Weeds:

Small seedlings, good growing conditions:	600 mL/ha
Weeds in bud, dry/cold conditions, or heavy infestation:	950 mL/ha

*Weed control may be reduced when applied beyond optimum stage of weed growth.

Harder to Control Weeds: Blue lettuce, biennial wormwood, common purslane, curled dock (up to 4 leaf), dandelion in lawn, dog and tansy mustard, flixweed(spring prior to bolting), groundsel, gumweed, hairy galinsoga, hawkweed, heal-all, hedge bindweed, knotweed(up to 4 leaf), narrow-leaved hawk's-beard (spring prior to bolting), oak-leaved goosefoot, peppergrass, pineappleweed, prostrate pigweed, Russian knapweed, sheep sorrel, tumble pigweed, velvet leaf, yellow rocket (before the 4 leaf stage).

Optimum Stage of Weed Growth: 2-4 leaf , growing actively.*

Rates to Use on Harder to Control Weeds:

Small seedlings, good growing conditions:	1.0 L/ha
Weeds in bud, dry/ cold conditions, or heavy infestations:	1.5 L/ha

NOTE: These high rates may result in deformities in the crop, but improved weed control should result in higher yields.

* Weed control may be reduced when applied beyond optimum stage of weed growth.

TOP GROWTH CONTROL ONLY:

Biennial wormwood, blue lettuce, bull thistle, burdock, buttercup, Canada thistle, field dandelion, field bindweed, gumweed, hedge bindweed, hoary cress, leafy spurge, mouse-eared chickweed*, perennial sow-thistle, Russian knapweed, tartary buckwheat, teasel, volunteer sunflower, yellow rocket (controlled with applications before the 4-leaf stage).

*Use highest rate listed below for suppression only.

Rates of Application Top Growth Control Only:

Small seedlings, good growing conditions:	1.0 L/ha
Large weeds, dry/cold conditions, or heavy infestations	1.5 L/ha

NOTE: For use in-crop. These rates may result in significant injury on some crops and should only be used where some crop injury can be tolerated.

Maximum Safe Rates of Application For Crops:

Spring wheat, barley, rye:	1.0 L/ha
Winter wheat, fall rye:	900 mL/ha
Field corn:	1.0 L/ha

Do not exceed these maximum rates in the weed control tables in any crop. Do not apply more than once per year.

GO TO SECTION 9

SECTION 5 - FORAGE SORGHUM, FORAGE MILLET

Treatment Stage: Ground application only. Apply post emergent to the weeds and crop when the crop is at the 4-6 leaf stage, before closure of the canopy.

Susceptible Weeds: As listed in Section 4.

Rates:	
Small seedlings, good growing condition:	500 mL/ha
Weeds in bud, dry conditions, very heavy infestations:	1.0 L/ha

Harder to Kill Weeds: As listed in Section 4.

Rate:	
Small seedlings, good growing conditions:	1.0 L/ha

Do not apply more than once per year.

GO TO SECTION 9

SECTION 6 - ESTABLISHED PASTURES, RANGELAND (WITHOUT LEGUMES)

Treatment Stage: Ground or aerial application. Apply at a time of rapid growth, usually May, June and/or September. Apply after pasture has been grazed or cut and weed growth has resumed. A second treatment may be required. Do not apply in freshly seeded grasses and pastures until well established. Under conditions of good growth and adequate soil moisture, sprays can be applied up to 2 weeks before normal frost time. Plants poisonous to livestock (eg. tansy ragwort, water hemlock, poison hemlock, death camas) may appear more palatable to grazing livestock and could be preferentially grazed by livestock after application of ALBAUGH, INC. 2,4-D Amine 600 Liquid Herbicide. Livestock should not be allowed to graze treated areas of such plant growth until poisonous plants have been removed, are completely dead, or have resumed normal growth habit.

Weeds Controlled: As listed in Section 4

Rates to Use:

Up to 1.5 to 4.0 L/ha in 100 - 300 litres of water per hectare. Use the higher rate for perennial weeds.

Do not apply more than twice per year.

GO TO SECTION 9

SECTION 7 - GRASS CROPS FOR FORAGE AND SEED PRODUCTION

Treatment Stage: Ground application only.

Seedling Grasses-Stand Establishment - For seedling grasses apply from the 3 leaf to just before the shot blade stage of development.

Established Grasses: Apply in the spring up to the shot-blade stage of the grasses or in the fall after harvest to control annual and biennial weed species.

Weeds Controlled: As listed in Section 4

Rates to Use: Seedling Grasses-Stand Establishment:
0.49 to 0.95 L/ha of product in 100 to 200 L/ha of water

Established grasses:
0.6 - 1.9 L/ha in 100-300 L/ha of water.

On established grass seed crops, do not exceed 0.95 L/ha. Do not apply during flower development or pollination as seed yields may be reduced. Late germinating weeds such as red bartsias may be controlled at 0.95 L/ha of product after the first hay crop is removed

Do not apply more than twice per year.

GO TO SECTION 9

SECTION 8 - STUBBLE LAND, ROADSIDES, AND UNCROPPED LAND.

Treatment Stage: Ground or aerial application for stubble land and uncropped land.
DO NOT APPLY BY AIR TO ROADSIDES.

Susceptible Weeds: As listed in Section 4.

Rates of Use on Susceptible Weeds:

Seedling Weeds:	1.50 L/ha
Weeds in bud, dry/cool conditions, heavy infestations:	2.75 L/ha

Harder to Control Weeds: As listed in Section 4.

Rate to Use on Harder to Control Weeds:

Seedling Weeds (up to 4 leaf):	2.75 L/ha
Weeds in bud, dry/cool conditions, heavy infestations, perennials and small brush:	4 L/ha

Do not apply more than twice per year.

NOTES: Spray thoroughly using 100 litres or more of water per hectare by ground. Use the higher rate for perennial weeds and susceptible woody growth. A second treatment may be required. Cultivating grain stubble and spraying after regrowth may aid in control. Do not apply to freshly seeded grasses until well established. Under conditions of good growth and adequate soil moisture, sprays can be applied up to 2 weeks before normal frost time. Plants poisonous to livestock (eg. tansy ragwort, water hemlock, poison hemlock, death camas) may appear more palatable to grazing livestock and could be preferentially grazed by livestock after application of 2,4-D Amine 600 Liquid Herbicide. Livestock should not be allowed to graze treated areas of such plant growth until poisonous plants have been removed, are completely dead, or have resumed normal growth habit. For hand-held equipment, do not apply more than 4.8L of 2,4-D amine 600 Liquid herbicide/day/person for roadsides or non-crop land applications.

GO TO SECTION 9

SECTION 9 - PRE-HARVEST/GRAZING INTERVALS (cereal crops, field corn, forage sorghum, forage millet, established pastures and rangeland, grass crops for forage).

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

GO TO SECTION 18

SECTION 10 - TURF, ESTABLISHED FAIRWAYS, GOLF COURSES, LAWNS, PARKS.

Treatment Stage: DO NOT apply by air. Treat in Spring (May & early June) and early September before grasses are in the flag leaf (shot blade) stage for the best results.

Weeds Controlled: Plantain, Dandelion, Curled Dock, Mustard, Pigweed, Ragweed, Shepherd's Purse and other weeds susceptible to 2,4-D (see section 4 for a complete listing of weeds controlled)

Rate to Use: 1.9 L/ha in 100 to 200 L/ha of spray solution.

Do not apply more than twice per year.
This does not include spot treatment

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

Application notes:
Do not apply to bentgrass or newly seeded lawns/turf as injury may occur. Avoid application if rain is expected within 24 hours or if weather is hot (above 27 deg. C) and/or dry. Avoid mowing within 4 days before and after application.

If weed populations do not warrant a broadcast application (e.g. entire lawn), consider spot treatments that target only weedy areas.

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. DO NOT apply to the exposed roots of trees and ornamentals.

GO TO SECTION 18

SECTION 11 - ASPARAGUS (EASTERN CANADA ONLY)

Treatment stage: Do not apply by air. Apply early in the season immediately after a thorough cutting or disking. Application can also be made 3 weeks after a post harvest disking using a directed spray to avoid the ferns.

Susceptible weeds: See Section 4 for weeds controlled.

Rates of application: 1.7 to 2.3 litres per hectare. Use the lower rate for weeds identified as susceptible weeds and the higher rate for weeds identified as harder to control or where top growth control is acceptable as under section 4. Apply in 50 to 200 litres of spray solution per hectare.

Do not apply more than once per year.

Notes: If emerged spears are contacted directly by spray or drift, they may become distorted or twisted. Spears emerging after application will be normal.

GO TO SECTION 18

SECTION 12 - STRAWBERRIES (EASTERN CANADA ONLY)

Treatment methods: Do not apply by air.

After Planting: Apply 2 to 4 weeks AFTER PLANTING but before the runners root in June. A low pressure nozzle and coarse spray is recommended.

Stand Renovation: Apply after harvest but before mowing. Delay mowing a few days after application. DO NOT apply between mid-August and fall dormancy due to damage to flower bud formation. Veestar is more sensitive than Redcoat. This treatment may cause distortion to the leaves.

Rates of application: After planting: 0.82 L/ha Stand renovation: 1.7 L/ha
Apply in 100 to 200 L/ha of spray solution.

Do not apply more than once per year

GO TO SECTION 18

SECTION 13 - RASPBERRIES - (Eastern Canada ONLY)

Treatment method: Do not apply by air.

Apply any time EXCEPT DURING BLOOM. Avoid spraying new shoots.

Rate of application: 0.93 L/ha. Apply in 100 to 200 L/ha of spray solution. Higher rates may be used for spot treatments.

Maximum Rates: Broadcast treatment: 0.93 L/ha. Do not apply more than twice per year.
Spot treatment: 2.23 L/ha

GO TO SECTION 18

SECTION 14 - CRANBERRIES

Treatment method: Do not apply by air.

Apply as an over the top, wipe-on application to actively growing weeds (June and July). Injury will result if crop is contacted. Apply only one application per year and observe a pre-harvest interval of 50 days.

Rate of application: Apply at a dilution rate of 1 part of 2,4-D Amine 600 Liquid Herbicide to 2.6 parts of water (27.5% solution).

Special weeds controlled: In addition to those noted in Section 4 of susceptible weeds, Hardhack, St. Johnswort, Alder and Purple Aster.

GO TO SECTION 18

SECTION 15 -BEARING FRUIT TREES:

Apple, Peach, Pear, Plum, Apricot, Sweet and Sour Cherry

Treatment Stage: Apply in the early spring after weed emergence, but in compliance with pre-harvest interval of 80 days or post-harvest to actively growing broadleaf weeds. **DO NOT APPLY BY AIR.**

Weeds Controlled: Plantains, Dandelion, Curled Dock, Mustards, Redroot Pigweed, Prostrate Pigweed, Russian Pigweed, Common Ragweed, Shepherd's Purse, Lamb's-Quarters, Stinkweed, Cocklebur, Prickly Lettuce, Narrow-leaved Hawk's Beard (fall rosette or spring at 1-2 leaf stage), Russian Thistle, seedling Sow Thistle and seedling Canada Thistle.

Rate of Application: 1.7 L/ha

Pre-Harvest Interval: Do not apply to weeds within 80 days of harvest of fruit crop.

Precaution: Do not apply when useable fruit is on the orchard floor.

Re-Entry Interval: Do not allow people (other than applicators) or pets into treatment area during application. Do not enter treated area until spray has thoroughly dried.

GO TO SECTION 18

SECTION 16 - WEEDS & BRUSH ON NON-CROP

(such as rights-of-way for utility lines, rights-of-way for transportation, in airports, in wastelands, or in industrial parks) / NON-GRAZED LAND

Rates to Use: 2.75 – 7.90 L/ha
Use the lower rate for species that are more susceptible such as chokeberry, western snowberry, willow and poplars.

Susceptible Species: Consult provincial spray calendars for a complete list of susceptible species. Ground or aerial application.

Rate of Carrier: Use sufficient water to wet foliage thoroughly. 1000 to 3000 L/ha of spray solution may be required if applying by ground. Where only weeds occur, use 100 to 200 L/ha of spray solution. For aerial applications use 55 to 165 litres of spray solution per hectare.

Maximum Rates: Annual and perennial weed control: 4 L/ha
Do not apply more than twice per year.

For hand-held equipment, do not apply more than 4.8 L per person per day.

Woody plant control: 7.90 L/ha

Do not apply more than twice per year.

For hand-held equipment, do not apply more than 8.9 L per person per day without a respirator or 14.3 L per person per day with a respirator.

Notes: Spray brush species up to 3 metres tall after foliage is well developed. Applications soon after leaves are fully open usually give the best results. Apply sufficient spray volume to thoroughly wet all plant parts to the ground line. Brush or trees above 3 m tall should be cut close to the ground and sprayed when the re-growth is over 0.6 m tall. With good growing conditions and adequate soil moisture, sprays may be applied up to 2 to 3 weeks before normal frost time.

GO TO SECTION 18

SECTION 17- TANK MIXES

Use tank mixes only when they are recommended for use. Read and follow the directions, aerial application directions, warnings, precautions, and grazing limitations on both products used in tank-mix. When tank-mixing, observe the most stringent precautionary measures for handling and mixing stated on both product labels. See appropriate tank-mix product labels for full details of use patterns, rates and timings of applications and limits on application.

GO TO SECTION 18

SECTION 18- MIXING, APPLICATION AND USE PRECAUTIONS

1. Fill tank 1/2 full with water. Start agitation.
2. Add 2,4-D Amine 600 Liquid Herbicide.
3. When tank-mixes are used, consult the tank-mix product label for full mixing instructions.
4. Complete filling of tank.
5. Use 50-200 litres of water per hectare for ground application unless otherwise specified or on tank-mix product labels.
6. Do not exceed 275 kPa pressure for ground application

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 or when wind velocity and direction pose a risk of spray drift. 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.

Aerial Application (including fixed and rotary wing aircraft)

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 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. No human flaggers are permitted.

Aerial Use Precautions

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. Buffer zones as specified in the "BUFFER ZONE INFORMATION" section below must 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 spray when the wind is blowing towards a nearby sensitive crop, garden, terrestrial habitat (such as shelterbelt) or aquatic habitat.

Aerial Operator Precautions:

Do not allow the pilot to mix chemicals to be loaded onto the aircraft. Loading of pre-mixed chemicals with a closed system is permitted. It is desirable that the pilot has communication capabilities at each treatment site at the time of application.

The field crew and the 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.

BUFFER ZONE INFORMATION

Buffer Zones to Protect Sensitive Habitat

Use of the following spray methods or equipment DO NOT require a buffer zone: hand-held 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 table 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 Application	Crop		Buffer Zone (metres) Required for the Protection of:					
			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, established fairways, golf courses, lawns, parks		1	0	1	0	1	
	Field Crops**		1	0	1	0	1	
	Fallow land and crop stubble, established pastures, rangeland, non-crop/non-grazed land (including roadsides, rights-of-way***, and brush control)		1	0	1	0	2	
Aerial	Field crops**		Fixed wing	1	0	1	0	45
			Rotary wing	1	0	1	0	40
	Fallowland and crop stubble, established pastures, rangeland		Fixed wing	1	0	1	0	60
			Rotary wing	1	0	1	0	50
	Non-cropland (including roadsides, rights-of-way***, and brush control)	4 L/ha (2.24 Kg a.e./ha)	Fixed wing	1	0	1	0	150***
			Rotary wing	1	0	1	0	80***
		8.0 L/ha (4.48 kg a.e./ha)	Fixed wing	2	0	2	0	225***
			Rotary wing	1	0	1	0	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 labeled 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 labeled buffer zone can be reduced by 30%

**Field crops include: cereal grains (spring wheat, barley, rye, winter wheat, fall rye), field corn, forage sorghum and forage millet, grass crops for forage and seed production, asparagus (Eastern

Canada only), strawberries (Eastern Canada only), raspberries (Eastern Canada only), cranberries, and bearing fruit trees (apple, peach, pear, plum, apricot, sweet and sour cherry). ***

***For application to rights-of-way, buffer zones for protection of sensitive 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.

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SECTION 19- PRECAUTIONS

Handling precautions:

KEEP OUT OF REACH OF CHILDREN. Avoid contact with eyes, skin and clothing. May cause skin irritation. Avoid inhaling vapours or mist.

Protective Clothing and Equipment:

Handling the concentrate (mixing and loading):

Wear coveralls over a long-sleeved shirt, long pants, chemical resistant gloves, socks and shoes. Rinse gloves before removal. Coveralls should be worn when pouring from containers. When handling more than 265 kg a.e. (473 L of ALBAUGH, INC. 2,4-D Amine 600 Liquid Herbicide) per day, workers must also used a closed system.

Handling the dilute spray solution (during application or repairing or cleaning equipment):

Wear coveralls over a long-sleeved shirt, long pants, chemical resistant gloves, socks and shoes.

For aerial application no human flaggers are permitted. Rinse gloves before removal. Gloves are not required during application when applicator is in an enclosed tractor or an enclosed airplane cockpit.

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.

GENERAL PRECAUTIONS:

Handle with care and mix only in a closed container. Use only in a well ventilated area. Avoid contamination of foods. Keep in original container during storage. Do not re-use container unless otherwise specified. Store the container tightly closed away from seeds, fertilizers, plants and foodstuffs. Store above 0 Deg. C. SHAKE WELL BEFORE USING. Clean spray equipment thoroughly after use.

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. 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 website at: www.croplife.ca.

Apply only when there is low risk of drift to areas of human habitation or activity such as houses, cottages, schools and recreational areas. Take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings.

Re-Entry Interval:

For hand detasseling in field corn, do not enter or allow worker entry to treated areas for a restricted entry interval (REI) of 14 days. For hand harvesting, hand pruning, thinning, training (full foliage) and tying (any foliage) in raspberries, do not enter or allow worker entry into treated areas for an REI of 6 days. For all other crops and worker activities, do not enter treated areas within 12 hours after application.

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.

Run-off

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 run-off, avoid spraying on driveways, sidewalks or other hard surfaces. Do not irrigate within 24 hours after application.

RESISTANCE MANAGEMENT RECOMMENDATIONS:

For resistance management, 2,4-D Amine 600 Liquid Herbicide is a Group 4 herbicide. Any weed population may contain or develop plants naturally resistant to 2,4-D Amine 600 Liquid Herbicide 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 2,4-D Amine 600 Liquid Herbicide 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 Albaugh, Inc.

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SECTION 20- FIRST AID

1. In case of poisoning, call a physician or poison control centre IMMEDIATELY.
2. 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.
3. 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.
4. 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.
5. 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.
6. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

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SECTION 21- TOXICOLOGICAL INFORMATION

Treatment of any systemic intoxication should be primarily symptomatic and supportive. 2,4-D may cause severe 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 and nausea.

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SECTION 22- RINSING AND DISPOSAL INFORMATION

For Recyclable Containers:

Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site: 1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank. 2. Make the empty, rinsed container unsuitable for further use. If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

For Returnable Containers:

Do not reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

For Returnable/Refillable Containers:

For disposal, this container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. Do not reuse this container for any other purpose. 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 cleanup 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.