

GROUP

15

HERBICIDE

OUTLOOK®

For weed control in potatoes

HERBICIDE

EMULSIFIABLE CONCENTRATE

COMMERCIAL (AGRICULTURAL)

GUARANTEE: Dimethenamid-P 720 g/L

Warning, contains the allergen soy

REG. NO. 30947 PCP Act

**IN CASE OF EMERGENCY ENDANGERING LIFE OR PROPERTY
INVOLVING THIS PRODUCT, CALL DAY OR NIGHT
1-800-454-2673**



WARNING

POISON

**EYE IRRITANT
POTENTIAL SKIN SENSITIZER**

READ THE LABEL AND BOOKLET BEFORE USING

KEEP OUT OF REACH OF CHILDREN

NET CONTENTS: 0.1 L to 1000 L

BASF Canada Inc.
100 Milverton Drive, 5th Floor
Mississauga, ON L5R 4H1
1-877-371-2273

OUTLOOK is a registered trade-mark of BASF SE, used with permission by BASF Canada Inc.

1.0 GENERAL INFORMATION

OUTLOOK will control labeled grass and broadleaf weeds in potatoes.

OUTLOOK is applied as a pre-emergent application to potatoes before weeds emerge. The pre-emergent application may occur after potatoes are planted or after hilling provided plants are not emerged. Do not apply OUTLOOK before planting or onto emerged potatoes.

2.0 PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN.

Harmful or fatal if swallowed. Causes eye irritation. DO NOT get in eyes. Potential skin sensitizer. May cause skin sensitization reactions in certain individuals. DO NOT get in eyes, on skin, or on clothing. Avoid breathing spray mist. Wear a long-sleeved shirt, long pants, coveralls and chemical resistant gloves and shoes plus socks during mixing, loading, application, clean-up and repair. In addition, wear goggles or face shield during mixing/loading.

DO NOT enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.

Apply only when the potential for drift to areas of human habitation or areas of human activity such as houses, cottages, schools and recreational areas is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment.

DO NOT apply by air. Reduce spray drift to areas adjacent to the treated crop by using correct spray pressure, water volume and boom height recommended for nozzles used. DO NOT spray under conditions of high wind. Refer to grazing restrictions on this label.

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.

2.1 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 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 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 in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

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

2.2 TOXICOLOGICAL INFORMATION

Treat symptomatically. This product contains petroleum distillates. Vomiting may cause aspiration pneumonia.

2.3 STORAGE

To prevent contamination, store this product away from food or feed.

2.4 DISPOSAL

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 any further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

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 the disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

2.5 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.

DIRECTIONS FOR USE

3.0 GENERAL APPLICATION INFORMATION

OUTLOOK is applied as a pre-emergent application to potatoes before weeds emerge. The pre-emergent application may occur after potatoes are planted or after hilling provided plants are not emerged.

Do not apply OUTLOOK before planting or onto emerged potatoes as injury may result.

Apply OUTLOOK with ground equipment as specified. Equipment should be checked frequently for proper calibration.

As this pesticide is not registered for the control of pests in aquatic systems, **DO NOT** use to control aquatic pests.

DO NOT contaminate irrigation/drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

DO NOT apply by air.

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) medium classification. Boom height must be 60 cm or less above the crop or ground.

Buffer zones

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 Zones (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*	Potatoes	1	1	1	0	3

*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%.

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.

3.1 ENVIRONMENTAL HAZARDS

Toxic to aquatic organisms, non-target terrestrial plants and small wild mammals.

This product contains an active ingredient and aromatic petroleum distillates which are toxic to aquatic organisms.

To reduce runoff from treated areas into aquatic habitats, avoid application to areas with a moderate to steep slope, compacted soil, or clay.

Avoid application when heavy rain is forecast.

Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body.

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.

3.2 SPRAYING INSTRUCTIONS

Ground application

- Spray volume -- minimum of 100 L/ha in sufficient water to ensure thorough coverage
- Keep bypass line on or near bottom of tank to minimize foaming.
- Use 16 mesh suction screen, 50 mesh elsewhere on sprayer.
- Select proper nozzle and pressure to avoid spraying fine mist. For best results, use flat fan or flood jet nozzle.

MIXING INSTRUCTIONS

1. Clean spray tank following sprayer clean-up recommendations on the previous product label.
2. Place a 20 to 35 mesh screen or wetting basket over filling port.
3. Through the screen fill sprayer tank one-half full with water. Start gentle agitation.
4. If wettable powder or water dispersible granule tank mix partner is used, make a slurry, and add it slowly through the screen into the tank. Continue agitation.
5. If liquid flowable tank mix partner is used, pre-mix one part liquid flowable with one part water. Add diluted mixture slowly through the screen into the tank.
6. Fill tank 9/10 full with water and add OUTLOOK and other emulsifiable concentrate or solution tank mix partners.
7. Top off tank mix with water, maintain agitation and spray. If spray mixture is allowed to settle at any time, thorough gentle agitation is required to re-suspend the mixture before spraying is resumed.
8. Do not let stand without agitation.

9. Thoroughly clean the spray tank immediately after use. Refer to specific tank mix partner label for clean-up instructions.

3.3 WEEDS CONTROLLED

OUTLOOK is applied as a pre-emergent application to potatoes before weeds emerge. The pre-emergent application may occur after potatoes are planted or after hilling provided plants are not emerged.

Do not apply OUTLOOK before planting or onto emerged potatoes as injury may result.

OUTLOOK applied as directed will control the following weeds:

Foxtail (green, yellow, giant)	Fall panicum
Crabgrass (smooth, large)	Redroot pigweed*
Old witchgrass	Eastern black nightshade*
Barnyard grass	Nutsedge, yellow**

* High rate of 963 mL/ha. Lower rates provide suppression only

** Suppression only

4.0 FACTORS AFFECTING OUTLOOK PERFORMANCE

Rainfall is required within 7 to 10 days of treatment to activate and move OUTLOOK into the soil zone. If dry conditions persist a shallow cultivation or the use of a rotary hoe is necessary to move the chemical into moist soil and control weed escapes. If cultivation is necessary because of soil crusting or compaction, tillage should be shallow to minimize dilution of the herbicide.

In cold and wet growing conditions, OUTLOOK application may result in delayed emergence or early season stunting of potatoes.

5.0 POTATOES

Ground application

Notes

- Consult the label of the product to be tank mixed with OUTLOOK for specific instructions regarding application rate for specific soil type, precautions and other restrictions.
- OUTLOOK may only be applied in a single application in potato.
- DO NOT exceed the specified rate by soil type in a single application.
- DO NOT apply within 40 days prior to harvest.
- DO NOT graze or feed treated crop to livestock prior to 40 days after application of OUTLOOK.

Timing: Pre-emergence (after planting of potatoes or after hilling provided plants are not emerged)

Apply OUTLOOK at the higher rates illustrated in the Table below on fine textured or high organic soils and for heavier weed problems.

Rate per hectare in millilitres (mL) Organic Matter			
Soil Type	Less than 3 %	3 to 6 %	7 to 10 %
Coarse Textured Soils	756	756	860
Medium Textured Soils	756	860	963
Fine Textured Soils	756	860	963

6.0 RECROPPING and ROTATIONAL CROP RESTRICTIONS

Re-Cropping Restriction

In situations where OUTLOOK has been applied to potato and crop failure occurs due to adverse weather or other reasons, the replanting (re-cropping) of potato is **not recommended**. If replanting of a crop is necessary, the following crops may be planted:

- Field corn
- Sweet corn
- Soybeans
- Dry common beans

Rotational crops

See below the interval required between the applications of OUTLOOK and seeding of rotational crops:

100 days for cereals

The following crops may be planted in the spring following the previous year's application of OUTLOOK:

- Potato
- Field corn
- Sweet corn
- Seed corn
- Soybeans
- Dry common beans
- Green onions
- Transplanted cabbage
- Peanuts

11 months for all other crops

7.0 RESISTANCE-MANAGEMENT RECOMMENDATIONS

For resistance management, OUTLOOK is a Group 15 herbicide. Any weed population may contain or develop plants naturally resistant to OUTLOOK and other Group 15 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 OUTLOOK or other Group 15 herbicides within a growing season (sequence) or among growing seasons 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. To delay resistance, the less resistance-prone partner should control the target weed(s) as effectively as the more resistance-prone partner.
- Herbicide use should be based on an integrated weed management program that includes scouting, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical control methods), cultural (for example, higher crop seeding rates; precision fertilizer application method and timing to favour the crop and not the weeds), biological (weed-competitive crops or varieties) and other management practices.
- Monitor weed populations after herbicide application for signs of resistance development (for example, only one weed species on the herbicide label not controlled). If resistance is suspected, prevent weed seed production in the affected area if possible by an alternative herbicide from a different group. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields, and planting clean seed.
- Have suspected resistant weed seeds tested by a qualified laboratory to confirm resistance and identify alternative herbicide options.
- 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 BASF at 1-877-371-2273.

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