

ESPLANADE™ SC

Herbicide

GROUP	29	HERBICIDE
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SUSPENSION

Preemergent Herbicide for the Control of Annual Grasses and Broadleaf Weeds in Non-Residential Non-Crop Areas such as: Railroad and Rail Yards, Managed Roadsides, Fence Rows, Utilities, Hardscapes, Industrial, Military Bases, Municipal and Government Sites and Around Farm Buildings

COMMERCIAL

ACTIVE INGREDIENT: Indaziflam 200 g/L

CONTAINS: 1,2-BENZISOTHIAZOLIN-3-ONE AT 0.04%, or
1,2-BENZISOTHIAZOLIN-3-ONE (PRESENT AS SODIUM SALTS) AT 0.04%, or
5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE AT 0.0022% and 2-METHYL-4-ISOTHIAZOLIN-3-ONE AT 0.0007% AS A PRESERVATIVE

REGISTRATION NO. 31333 PEST CONTROL PRODUCTS ACT

READ THE LABEL AND BOOKLET BEFORE USING

KEEP OUT OF REACH OF CHILDREN.

NET CONTENTS: 1L to Bulk

Product Information: 1-888-283-6847

www.bayercropscience.ca

Bayer CropScience Inc.
Suite 200, 160 Quarry Park Blvd. S.E.
Calgary, AB T2C 3G3

In case of spills, poisoning or fire, telephone emergency response number
1-800-334-7577 (24 hours a day).

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.

PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN. Harmful if swallowed, absorbed through the skin or inhaled. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Avoid breathing spray mist. Wear a long-sleeved shirt, long pants and chemical-resistant gloves while mixing/loading, applying and during clean-up and repair.

Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using toilet. Remove and wash contaminated clothing before reuse.

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

Do not enter or allow worker entry into treated areas until sprays have dried.

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 and sprayer settings.

DO NOT apply in greenhouses or indoors.

DO NOT apply more than one application per season.

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

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control center 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 center or doctor for 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 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 by mouth-to-mouth, if possible. Call a poison control center or doctor for treatment advice.

TOXICOLOGICAL INFORMATION: No specific antidote is available. Treat symptomatically.

ENVIRONMENTAL HAZARDS: TOXIC to aquatic organisms and non-target terrestrial plants. Observe buffer zones specified under DIRECTIONS FOR USE.

STORAGE

- CANNOT be stored below freezing.
- Keep in original container during storage.
- Store the tightly closed container away from feeds, seeds, fertilizers, plants and foodstuffs.
- To prevent contamination, store this product away from food or feed.
- Do not use or store in or around the home.

DISPOSAL

Recyclable Container

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.

Disposal of Unused, Unwanted Product: Any unused product must be returned to the manufacturer. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for cleanup of spills.

ESPLANADE is a trademark of Bayer.

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Disposal of Unused, Unwanted Product: Any unused product must be returned to the manufacturer. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for cleanup of spills.

DIRECTIONS FOR USE

PRODUCT INFORMATION

Esplanade SC Herbicide is a pre-emergent herbicide for the control of annual grasses and broadleaf weeds in non-residential non-crop areas such as: railroad and rail yards, managed roadsides, fence rows, utilities, hardscapes, industrial, military bases, municipal and government sites, and around farm buildings.

Esplanade SC Herbicide controls weeds by reducing the emergence of seedlings through inhibition of cellulose biosynthesis (CB Inhibitor). Necrosis or yellowing may also be observed if the herbicide is applied to herbaceous tissue such as leaves and green stems of susceptible plants.

USE LOCATIONS	APPLICATION TIMING	REMARKS
Non-Residential Non-Crop Areas such as: Railroad and Rail Yards, Managed Roadsides, Well sites, Storage tank yards, Fence Rows, Utilities, Hardscapes, Industrial, Military Bases, Municipal and Government Sites, and Around Farm Buildings	Preemergence	<p>Esplanade SC Herbicide provides preemergent, residual control of weeds. Apply to target surface before weeds germinate.</p> <p>Esplanade SC Herbicide should be applied to the soil as a uniform broadcast or band application.</p> <p>Esplanade SC Herbicide applied alone will not control weeds that are already emerged. If weeds have emerged, a foliar active postemergent herbicide must be added. Esplanade SC Herbicide treatments are most effective in controlling weeds when adequate moisture is present and the application is followed by rain prior to weed seed germination.</p> <p>Weed seeds and seedlings must come into contact with Esplanade SC Herbicide prior to emergence to be controlled. If sufficient moisture is present, some weeds may germinate and emerge from below the treated layer.</p> <p>Excessive plant debris present on the soil surface at time of application may prevent uniform product distribution reaching the soil and reduce weed control. Performance may be improved by removing excessive debris prior to product application.</p> <p>Avoid disturbing treated soil after application of Esplanade SC Herbicide. If treated soil is moved during tillage practices or other manner in such a way that the herbicide barrier is no longer intact, weeds may emerge from areas where treated soil has been disturbed.</p>

WEEDS CONTROLLED BY ESPLANADE SC HERBICIDE AND APPLICATION RATE

Esplanade SC Herbicide provides pre-emergence residual control of susceptible grass and broadleaf weeds when applied preemergence in non-residential non-crop areas such as: railroads and rail yards, managed roadsides, fence rows, utilities, hardscapes, industrial, military bases, municipal and government sites, and around farm buildings, as well as oil and gas well sites and tank storage yards. A single application of Esplanade SC Herbicide will control the following annual broadleaf and annual grassy weeds:

APPLICATION RATE	WEED SPECIES	
	BROADLEAF SPECIES	GRASS SPECIES
375 ml/Ha	Bittercress, (including Hairy) Black Medic Carpetweed Chickweed, Mouse-ear Clover, White* Corn Speedwell Cudweed Curley Dock Dog Fennel Field Bindweed Fleabane, Hairy Groundsel, Common Hawksbeard, Smooth Henbit Kochia* Lambsquarters Little Mallow London Rocket* Morning Glory Mustard, Black Mustard, Wild Nightshade, American black Nightshade, Hairy Pigweed, Prostrate Pigweed, Redroot* Prostrate Knotweed Plantain, Buckthorn Prickly Lettuce* Purslane, Common Spurge, Spotted Shepherd's-purse Sowthistle, Annual St-John Wort Starthistle, Yellow Stork's Bill Sunflower, Common Sweetclover, White Vetch, Purple Woodsorrel, Yellow	Annual Bluegrass / 'Poa' Annual brome grasses including Downy Brome, Ripgut Brome, and Cheat Barnyardgrass Bluestem Broomsedge Cheatgrass Crabgrass (Large, Smooth and Hairy) Foxtail, Giant Foxtail, Green Foxtail, Yellow Goosegrass Italian Ryegrass Medusa Head Ryegrass, Annual Ryegrass, Perennial Sedge, (Globe)** Stinkgrass Tufted Lovegrass Volunteer Common Rye Wild Barley Wild Oats Wild Proso Millet Witchgrass

* Weeds suppressed by Esplanade SC Herbicide

** Esplanade SC Herbicide only controls globe sedge emerging from seed.

Esplanade SC Herbicide may be applied once per season.

TANK MIXTURES

For burndown control of emerged weeds and residual control of species not listed for Esplanade SC Herbicide alone, Esplanade SC Herbicide may be applied in tank mixes with the following herbicides. Refer to labels of tank mix partner herbicides for specific weeds controlled by the products and for other application information.

RECOMMENDED TANK MIXTURES

PRODUCTS	PRODUCT RATES	WEEDS CONTROLLED	REMARKS
<p>ESPLANADE SC Herbicide</p> <p>+</p> <p>Roundup WeatherMAX VisionMAX Roundup Ultra2 IPCO Factor 540 R/T 540 Liquid Roundup Transorb HC</p>	<p>375 mL/Ha</p> <p>+</p> <p>1.5 – 8.0 L/Ha</p>	<p>All weed species controlled by Esplanade SC Herbicide alone plus burn down control of emerged weeds labeled under the listed glyphosate formulations</p>	<p>Consult the label of the tank mix partner(s) for further instructions regarding directions for use, restrictions and precautions, and always observe the largest (most restrictive) buffer zone and the more stringent label precautionary measures and PPE for mixing, loading and applying of the products involved in the tank mixture.</p>
<p>ESPLANADE SC Herbicide</p> <p>+</p> <p>Milestone</p> <p>+</p> <p>Roundup WeatherMAX VisionMAX Roundup Ultra2 IPCO Factor 540 R/T 540 Liquid Roundup Transorb HC</p>	<p>375 mL/Ha</p> <p>+</p> <p>0.25 L – 0.5 L/Ha</p> <p>+</p> <p>1.5 - 8.0 L/Ha</p>	<p>All weed species controlled by Esplanade SC Herbicide alone, plus weeds controlled by Milestone plus burn down control of emerged weeds labeled under the listed glyphosate formulations. This 3-way tank mixture also provides residual control of prickly lettuce.</p>	

PRODUCTS	PRODUCT RATES	WEEDS CONTROLLED	REMARKS
ESPLANADE SC Herbicide + Milestone	375 mL/Ha + Milestone 0.25 L – 0.5 L/Ha	All weed species controlled by Esplanade SC Herbicide alone, plus weeds controlled by Milestone alone. This 2-way tank mixture also provides residual control of prickly lettuce.	Consult the label of the tank mix partner(s) for further instructions regarding directions for use, restrictions and precautions, and always observe the largest (most restrictive) buffer zone and the more stringent label precautionary measures and PPE for mixing, loading and applying of the products involved in the tank mixture
ESPLANADE SC Herbicide + Payload + Roundup WeatherMAX VisionMAX Roundup Ultra2 IPCO Factor 540 R/T 540 Liquid Roundup Transorb HC	375 mL/Ha + 280-420 g/Ha + 1.5 – 8.0 L/Ha	All weed species controlled by Esplanade SC Herbicide alone, plus weeds controlled by Payload plus burn down control of emerged weeds labeled under the listed glyphosate formulations. This 3-way tank mixture also provides residual control of redroot pigweed, kochia, and hairy willow herb.	
ESPLANADE SC Herbicide + Navius Herbicide + A non-ionic adjuvant or Merge adjuvant or Crop Oil Concentrate	375 mL/Ha + 167 g/Ha, or 334 g/Ha, or 499 g/Ha + 0.25% v/v or 1.0% v/v or 1.0% v/v	All weed species controlled by Esplanade SC Herbicide alone, plus weed and brush species controlled by Navius Herbicide when applied at the respective rates.	

APPLICATION INSTRUCTIONS AND USE LIMITATIONS

GENERAL APPLICATION INFORMATION

Apply and check periodically to be certain that the equipment is working properly prior to each use. Uniform application is essential for satisfactory weed control. Avoid overlap. Shut off spray booms while starting, turning, slowing or stopping to avoid off-target application. When spraying close or next to ponds, lakes, rivers, and streams be cognizant of keeping the spray solution from reaching the water. For all applications, follow these guidelines: use spray volumes of 94 Liters – 939 Liters per hectare, spray boom height and spray pressures as low as practical, use coarse droplet producing nozzle tips, use drift control additives and shielded sprayers where practical, and spray when wind speed is low. See the Spray Drift Management section for more details. The use of a hand-held or backpack sprayer is allowed, especially when treating smaller areas. The water volume and use rates are the same on a given area as if treating with a much larger boom sprayer. When using a hand-held or backpack sprayer, do not exceed the use rate restrictions stated on this label.

Uniform, thorough spray coverage is important to achieve consistent weed control. The duration of residual control is dependent on soil type, rainfall / irrigation and temperature. Follow directions under “Directions for Use” section for the correct rate and timing of application.

MIXING INSTRUCTIONS; Ensure that the application equipment has been thoroughly cleaned from previous use before using to apply ESPLANADE SC Herbicide . Fill the spray tank with 1/2 of the required volume of water prior to the addition of ESPLANADE SC Herbicide. Add the proper amount of ESPLANADE SC Herbicide, and then add the rest of the water. Maintain sufficient agitation to ensure an adequate spray mixture during application. If ESPLANADE SC Herbicide is to be applied in a tank mixture with other pesticides, add the appropriate amounts of the tank mix partners in the following order: (a) products in water-soluble packaging (WSP’s), (b) wettable powder (WP’s), (c) wettable granules (WG’s) or other dry flowables, (d) fertilizers, (e) ESPLANADE SC Herbicide, (f) other aqueous suspension products (SC’s), (g) liquid flowables, (h) emulsifiable concentrates and other organic-solvent based formulations. Continue to fill the tank with water to the desired volume while agitating. Maintain sufficient agitation during application to ensure a uniform spray mixture. Resuspending ESPLANADE SC Herbicide in Spray Solution: Like other suspension concentrates (SC’s), ESPLANADE SC Herbicide will settle if left standing without agitation. Re-agitate the spray solution before application.

COMPATIBILITY TESTING WITH OTHER PESTICIDES: A compatibility test must be conducted with any potential tank mix partner with ESPLANADE SC Herbicide. Using a clear container, conduct the test as described below: Fill the container three-quarters full with water.

1. Add the appropriate amount of tank mix partner in the following order: (a) WP (b) dry flowable (c) ESPLANADE SC Herbicide (d) aqueous suspensions, (e) flowables, (f) liquids and (g) solutions and emulsifiable or liquid concentrates. Shake or gently stir after each addition to mix thoroughly.

2. After adding all ingredients, let the mixture stand for 15 minutes and look for separation, large flakes, precipitates, gels, and heavy oily film or other signs of incompatibility.
3. If the compatibility test shows signs of incompatibility, do not tank mix the product tested with ESPLANADE SC Herbicide.

GROUND APPLICATION

Apply ESPLANADE SC Herbicide alone or in tank-mixtures, by ground equipment only. **DO NOT APPLY BY AIR.**

DO NOT apply ESPLANADE SC Herbicide through any type of irrigation system.

Apply ESPLANADE SC Herbicide as a broadcast spray in a minimum of 94 liters of water per hectare

For best results use flat fan nozzles or comparable nozzles to achieve uniform spray distribution. **DO NOT** apply with hollow cone nozzles or with other application equipment which does not provide uniform coverage.

Commercial 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 ground.

Keep the spray boom at the lowest possible spray height above the target surface. Maintain adequate agitation at all times, including momentary stops.

For application to rights-of-way, use the best available application strategies which minimize off-site drift, including meteorological conditions (e.g. wind direction, low wind speed) and spray equipment (e.g. coarse droplet size, minimizing height above canopy).

Do not directly apply to any aquatic habitats that are traversed by the rights-of-way.

BUFFER ZONES

Use of the following spray methods or equipment **DO NOT** require a buffer zone: hand-held or backpack sprayer, inter-row hooded sprayer, and spot treatment.

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, rangelands, riparian areas and shrub lands), sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands).

Method of Application	Use Locations	Buffer Zones (metres) Required for the Protection of:		
		Freshwater Habitat of Depths:		Terrestrial Habitat
		Less than 1 m	Greater than 1 m	
Sprayer	Non-Residential Non-Crop Areas, Railroad and Rail Yards, Managed Roadsides, Fence Rows, Utilities, Hardscapes, Industrial, Military Bases, Municipal and Government Sites, Around Farm Buildings	1	0	15 ^a

^a Buffer zones for protection of terrestrial habitats are not required for applications to rights-of-way including railroad ballast, rail and hydro rights-of-way, utility easements and roads and training grounds on military bases.

For tank mixtures, consult the labels of the tank-mix partners and observe the largest (most restrictive) buffer zone of the products involved in the tank mixture and apply using the coarsest spray (ASAE) category indicated on the labels for those tank mix partners.

For field sprayer applications, buffer zones can be reduced with the use of drift-reducing spray shields. Using a spray boom fitted with a full shield (shroud, curtain) that extends to the top of the canopy or to the ground, the labeled buffer zone can be reduced by up to 70%. The labeled buffer zone can be reduced by up to 30% if spray booms with individual nozzles fitted with cone-shaped shields that are no more than 30 cm above the canopy are used.

SPRAYER CLEANUP

Before and after using ESPLANADE SC Herbicide, thoroughly clean all mixing and spray equipment, including tanks, pumps, nozzles, lines, filters, screens and nozzles with a good quality tank cleaner.

- Completely drain the spray and mixing tanks.
- Rinse the spray tank inside and outside and all lines and screens. A rotating cleaning nozzle may be beneficial to dislodge any product from the sides of the tank.
- Fill the tank with water and cleaner then circulate solution to ensure that the pumps, valves, and all lines are flushed.
- Remove and clean all filters, screens and nozzles.
- Drain all cleaning solution and then rinse once more with clean water.
- Visually inspect the filters, screens, and tank walls to ensure no product remains.

RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, ESPLANADE SC Herbicide is a Group 29 herbicide. Any weed population may contain or develop plants naturally resistant to ESPLANADE SC Herbicide and other Group 29 herbicides. The resistant biotypes may dominate the weed

population if these herbicides are used repeatedly in the same area. 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:

1. Where possible, rotate the use of ESPLANADE SC Herbicide or other Group 29 herbicides with different herbicide groups that control the same weeds in the same area.
2. Use tank mixtures with herbicides from a different group when such use is permitted.
3. 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.
4. Monitor treated weed populations for resistance development.
5. Contact your local IVM extension specialist for any additional pesticide resistance-management and/or integrated weed-management recommendations for weed biotypes.
6. For further information or to report suspected resistance contact Bayer CropScience Inc. via internet at www.bayercropscience.ca or telephone at 1-888-283-6847.

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