



Esplanade®

Product information sheet

// BEST USES

Developed for the industrial vegetation management industry. Esplanade® is ideal for use around railway, roadsides, utility rights-of-way and around farm buildings.

// KEY STRENGTHS

Esplanade herbicide is advancing weed control. This total vegetation control (TVC) product is unlike anything else on the market; a pre-emergent herbicide that features a new mode of action, providing effective, long-lasting control.

Attributes of Esplanade

- Convenient and easy to use packaging
- Odourless and non-staining to surfaces
- Minimal PPE requirement as compared to traditional vegetation management herbicides
- Up to 60 times less active ingredient on the ground compared to some competitive products. Delivers a more sustainable solution for you and your customers
- Applied at low use rate 375 mL/ha and formulated as a 200 g/L suspension concentrate (SC)
- Less post-emergent herbicide applications results in reduced labour and fuel costs
- Up to 8 months residual control even under the most difficult conditions on over 33 weed species

Solutions for Tough Weeds

- Superior broad-spectrum control of over 33 weed species, including annual grasses, broadleaf weeds
- A single application of Esplanade herbicide will control giant foxtail, green foxtail and yellow foxtail
- Unique mode of action helps manage herbicide resistance on key weeds

Weed Species Controlled

- | | | | |
|--------------------|------------------------|----------------------|-----------------------|
| • Black mustard | • Field bindweed | • Italian ryegrass | • Bluestem broomsedge |
| • Barnyard grass | • Sweet clover | • Large crabgrass | • Cudweed |
| • Shepherd's purse | • Volunteer common rye | • Yellow foxtail | • Dog fennel |
| • Wild mustard | • Wild barley | • Annual sow thistle | • **Prickly lettuce |
| • Spotted spurge | • Morning glory | • Lamb's quarters | • **Redroot pigweed |
| • St. John's wort | • Wild oats | • Stork's bill | • **Kochia |
| • Common groundsel | • Giant foxtail | • Common sweetclover | |
| • Medusa head | • Green foxtail | • Yellow starthistle | |

** Suppression only
375mL/ha Application Rate

// Active Ingredients
indaziflam 19.05%
1,2-propanediol 8%

// Mode of Action
inhibition of cellulose
biosynthesis inhibitor (CBI)

// Group
29

// Formulation
suspension

// Packaging
case = 4 x 1 L
case = 2 x 10 L

// HOW TO USE ESPLANADE

For resistance management, Esplanade herbicide is a Group 29 herbicide. Any weed population may contain or develop plants naturally resistant to Esplanade herbicide and other Group 29 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same area. Appropriate resistance-management strategies should be followed.

Mode of Action

The active ingredient in Esplanade, Indaziflam, is a cellulose biosynthesis inhibitor (CBI) and is classified as a Group 29 herbicide. Esplanade is the most powerful CBI herbicide discovered to date. It works by inhibiting crystalline cellulose deposition in the plant cell wall, affecting cell wall formation, cell elongation and division. Consequently, only actively growing maristematic root and shoot tissues of germinating weeds are affected.

Environmental Fate

Soil biotransformation is expected to be the major route of transformation in the environment, with soil persistence ranging from slightly persistent to moderately persistent, depending on soil type.

Volatility	Half-Life in Soil (Days)	Half-Life in Water (Days)	Leaching
low (non-volatile in the environment)	9.3 to 71	13 to 22.5	The main ingredient, Indaziflam is moderately mobile and not expected to leach

Wildlife Safety Assessment

The active ingredient in Esplanade is designed to affect plant life and does not pose a risk to other wildlife or humans as it can be used safely when used according to the label directions.

The active ingredient in Esplanade does not present a risk to wild mammals, birds, fish or amphibians.

- Non-lethal to terrestrial vertebrates
- Non-lethal to bees, earthworms and parasitoid wasps

Earthworms	Bees	Birds
LC ₅₀ : > 1000 mg/kg/2 – Considered Negligible	LD ₅₀ : >100 µg ai/bee (x 1.12) – Considered Negligible	200 mg ai/kg bw/d – Considered Negligible

Human Safety Assessment

The acute toxicity of the active ingredient found in Esplanade is low via oral, dermal and inhalation routes of exposure. It is non-irritating to the eyes and skin and did not cause an allergic reaction in testing. Testing shows that it is not a carcinogenic.

Acute Oral Toxicity	Acute Dermal Toxicity	Acute Inhalation Toxicity	Eye Irritation
LC ₅₀ : > 5,000 mg/kg	LC ₅₀ : > 2,000 mg/kg	LC ₅₀ (rabbit): > 3,625 gL/L Exposure time: 4 hours	No eye irritation



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