



# Navius®

## Product information sheet

### // BEST USES

When application selectivity is as important as effective weed and brush control vegetation managers can depend on Navius®. Navius can be used on highway rights-of-way, roadsides, industrial sites, fence lines and other non-crop areas.

### // KEY STRENGTHS

Navius delivers extended, broad-spectrum control of broadleaf weeds and encroaching brush so managers can extend the time between applications, and increase the productivity of their spray program resulting in time and cost savings.

#### *Attributes of Navius*

- Warm moist conditions following treatment promotes activity of Navius
- Length of control is dependent on rate, condition, growth stage of target weeds, and environmental conditions during and after application
- Long-term weed and brush control occurs when grasses and other desired vegetation are allowed to recover from adverse environmental conditions and compete with undesirable brush or weeds
- No grazing or haying restrictions
- Convenient and easy to use packaging
- Low-odour, dry formulation mixes easily and remains in suspension
- Rain-fast at 4 hours after application

#### *Solutions for Tough Weeds and Brush*

- Superior broad-spectrum control of over 40 weed species, including undesirable brush/woody plants in non-crop areas
- It promotes the grass understory and helps preserve desirable vegetation
- Two modes of action for effective resistance management
- Quickly taken up by the leaves, stems and roots of plants
- Low use rates per hectare for reduced chemical load on the environment
- Grazing animals do not have to be moved off the pasture or rangeland before, during or after applying Navius
- Brush and broadleaf weed control with one product

### // HOW TO USE NAVIUS

#### *Mode of Action*

Aminocyclopyrachlor, an active ingredient in Navius herbicide, stops the growth of plants by interfering with hormonal balance necessary for normal shoot and root development. The herbicide has unique features acting via a distinctive mechanism that targets a family of auxin receptor complexes. Metsulfuron-methyl, a Group 2 herbicide, causes the rapid cessation of plant cell division and growth.

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#### // Active Ingredients

metsulfuron-methyl  
12.6%  
aminocyclopyrachlor  
39.5%

#### // Mode of Action

auxinic and  
ALS inhibitor

#### // Group

2 and 4

#### // Formulation

wettable granule

#### // Packaging

case = 8 x 1.361 kg

## Weed and Brush Controlled – Over 40 species including:

### Broadleaf Weeds

- Kochia
- Canada thistle
- Common tansy
- Common yarrow
- Dandelion
- Giant buttercup
- Giant hogweed
- Hawkweed (orange)
- Hemp-nettle
- Knapweed (diffuse)
- Leafy spurge
- Scentless Chamomile
- Western snowberry
- White cockle
- Wild carrot
- Wild rose
- Yellow starthistle

### Brush

- Ash (green, white)
- Cherry (black, chokecherry, pin)
- Fir (Balsam, Douglas)
- Manitoba maple/box elder
- Maple (red, sugar)
- Oak (black, northern red)
- Poplar (Balsam, black and yellow)
- Spruce (black, Norway, white)
- Sumac
- Tree of heaven
- Trembling aspen
- Willow (ditch bank)

## Environmental Fate

The active ingredients Metsulfuron-methyl and Aminocyclopyrachlor are designed to affect plant life. Navius is soluble in water and does not volatilize from moist soil or water surfaces under field conditions. Navius is not expected to bio accumulate and is metabolized by soil microbes.

Volatility	Half-Life in Soil (Days)	Half-Life in Water (Days)
Non-Volatile (Does not volatilize from moist soil or water surfaces)	Aminocyclopyrachlor Range: 120 to 433 Metsulfuron-methyl Range: 26 to 54	Aminocyclopyrachlor Range: >365 Metsulfuron-methyl Range: 35 to 365

## Wildlife Safety Assessment

Active ingredients in Navius are practically non-toxic to honey bees, birds, and mammals on an acute exposure basis.

## Human Safety Assessment

The acute toxicity of the active ingredients found in Navius is low via oral, dermal and inhalation routes of exposure. It is a moderate irritant to the eyes with no irritation to the skin. Not considered a skin sensitizer or carcinogenic.

Acute Oral Toxicity	Acute Dermal Toxicity	Acute Inhalation Toxicity	Eye Irritation	Skin Irritation
LD <sub>50</sub> : > 5,000 mg/kg	LD <sub>50</sub> : > 5,000 mg/kg	LD <sub>50</sub> : > 5,000 mg/kg	Moderately irritating	Minimally irritating



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