NAVIUS™ VM HERBICIDE

WETTABLE GRANULE

COMMERCIAL

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING

GUARANTEE: Metsulfuron-methyl 12.6% Aminocyclopyrachlor 39.5%

WARNING, contains the allergens, sulfites and milk.

REGISTRATION NO.31382 PEST CONTROL PRODUCTS ACT

NET CONTENTS: 167 grams to bulk

Product Information: 1-888-283 6847

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

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

PRECAUTIONS:

- KEEP OUT OF REACH OF CHILDREN.
- Do not contaminate any body of water.
- Wear chemical resistant gloves, long-sleeved shirt, long pants, shoes and socks during mixing/loading, application, clean-up and repair activities (gloves are not required for ground boom sprayers).
- For non-crop areas, do not enter or allow worker entry into treated areas until sprays have dried.
- Do not use in residential or recreational areas, including lawns and turf. Residential
 areas are defined as any use site where bystanders including children could be exposed
 during or after application. This includes homes, schools, parks, playgrounds, playing
 fields, public buildings, or any other area where the general public including children
 could be exposed.
- Apply only when the potential for drift to areas of human habitation or areas of human activity (houses, cottages, schools and recreational areas) is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings.

ENVIRONMENTAL HAZARDS:

TOXIC to aquatic organisms and non-target terrestrial plants including coniferous and deciduous trees. Observe buffer zones specified under DIRECTIONS FOR USE.

Runoff:

To reduce runoff from treated areas into aquatic or terrestrial habitats, avoid application to areas with a 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 vegetative strip between the treated area and the edge of the water body.

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.

FIRST AID:

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

TOXICOLOGICAL INFORMATION: Treat symptomatically. Medical personnel should contact Bayer's medical information services toll-free 1-800-334-7577.

STORAGE:

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

DISPOSAL/ DECONTAMINATION:

- 1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
- 2. Follow provincial instruction for any required additional cleaning of the container prior to its disposal.
- 3. Make the empty container unsuitable for further use.
- 4. Dispose of the container in accordance with provincial requirements.
- 5. 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 clean-up 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.

Navius is a registered trademark of Bayer.

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 could be exposed.
- Apply only when the potential for drift to areas of human habitation or areas of human activity (houses, cottages, schools and recreational areas) is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings.

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TOXIC to aquatic organisms and non-target terrestrial plants including coniferous and deciduous trees. Observe buffer zones specified under DIRECTIONS FOR USE.

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TOXICOLOGICAL INFORMATION: Treat symptomatically. Medical personnel should contact Bayer's medical information services toll-free 1-800-334-7577.

IMPORTANT INFORMATION - Read Before Using

- Avoid application of this product in areas where the roots of desirable trees and/or shrubs may
 extend unless injury or loss can be tolerated. Root zone areas of desirable trees or vegetation
 are affected by local conditions and can extend well beyond the tree canopy.
- Avoid overspray or drift to important aquatic and wildlife habitats such as lakes, streams and ponds, shelterbelts, wetlands, sloughs, and dry slough borders, woodlots, vegetated ditch banks and other cover on the edge of fields.
- Certain species may, in particular, be sensitive to low levels of Navius VM Herbicide including but not limited to, conifers (such as Douglas fir, Norway spruce, ponderosa pine and white pine), deciduous trees (such as aspen, cottonwood, honey locust, magnolia, poplar species, redbud, silver maple, and willow species), and ornamental shrubs (such as arborvitae, burning bush, crape myrtle, forsythia, hydrangea, ice plant, magnolia, purple plum and yew).
- Injury or loss of desirable trees or vegetation may result if Navius VM Herbicide is applied on or near desirable trees or vegetation, on areas where their roots extend, or in locations where the treated soil may be washed or moved into contact with their roots. Consider site-specific characteristics and conditions that could contribute to unintended root zone exposure to desirable trees or vegetation. Root zone areas of desirable trees or vegetation are affected by local conditions and can extend beyond the tree canopy. If further information is needed regarding root zone area, consult appropriate provincial extension service, professional consultant or other qualified authority.
- Do not use on lawns or turf.
- If non-crop sites treated with Navius VM Herbicide are to be converted to a food, feed, or fiber agricultural crop, or to a horticultural crop, a field bioassay should be completed before planting the desired crop. Refer to FIELD BIOASSAY section of this label
- Avoid application in or on dry or water containing irrigation ditches or canals including their outer banks.
- Treatment of powdery, dry soil and light, sandy soils when there is little likelihood of rainfall soon after treatment may result in off target movement and possible damage to susceptible crops and desirable vegetation when soil particles are moved by wind or water. Injury to crops or desirable vegetation may result if treated soil is washed, blown or moved onto land used to produce crops or land containing desirable vegetation. Do not apply Navius VM Herbicide when these conditions are identified and powdery, dry soil or light or sandy soils are known to be prevalent in the area to be treated.
- Injury to or loss of desirable trees or vegetation may result if equipment is drained or flushed on or near these trees or vegetation, or on areas where their roots may extend, or in locations where the chemical may be washed or moved into contact with their roots.
- In non-crop areas adjacent to desirable vegetation, avoid overlapping spray applications and shut off spray equipment while starting, turning, slowing or stopping to avoid injury to desirable vegetation.

- Applications made where runoff water flows onto agricultural land may injure or kill crops, such as but not limited to canola, pulses, peas, sugar beets, potatoes, tomatoes, soybeans, field beans, alfalfa, grapes, and vegetables.
- Caution is advised when using this product in areas where loss of desirable conifer or deciduous trees and/or shrubs as well as other broadleaf plants, including but not limited to, legumes and wild flowers, cannot be tolerated. Without prior experience, it is advisable that small areas containing these plants be tested for tolerance to Navius VM Herbicide and its soil residues before any large scale spraying occurs.
- Low rates of Navius VM Herbicide can kill or severely injure most crops. Following a Navius VM Herbicide application, the use of improperly cleaned spray equipment to apply other pesticides to crops on which Navius VM Herbicide is not registered may result in their damage. Refer to SPRAYER CLEANUP section of this label for details. The most effective way to reduce this crop damage potential is to use dedicated mixing and application equipment.
- It is recommended that treated soils remain undisturbed to reduce the potential for Navius VM Herbicide movement by soil erosion due to wind or water.
- Caution is advised when using this product on grass that is stressed by drought, water saturated soils, wide fluctuations in day and night temperatures, low fertility, insect damage, or disease as unacceptable grass injury may occur.

APPLY Navius VM Herbicide WITH A RECOMMENDED SURFACTANT.

GENERAL INFORMATION

Navius VM Herbicide is a dispersible granule to be mixed in water and applied as a foliar spray for control of undesirable brush/woody plants in non-crop areas.

Navius VM Herbicide is noncorrosive, nonflammable, nonvolatile and does not freeze. Navius VM Herbicide is quickly taken up by the leaves, stems and roots of plants. The effects of Navius VM Herbicide may be seen on plants from within a few hours to a few days. The most noticeable symptom is a bending and twisting of stems and leaves. Other advanced symptoms include severe chlorosis, necrosis, stem thickening, growth stunting, leaf crinkling, calloused stems and leaf veins, leaf-cupping, and enlarged roots.

Navius VM Herbicide is rain-fast at 4 hours after application.

Warm, moist conditions following treatment promote the activity of Navius VM Herbicide while cold, dry conditions may reduce or delay activity. The length of control is dependent upon the application rate, condition and growth stage of target weeds, environmental conditions at and following application, and the density and vigor of competing desirable vegetation. Best results for long term weed and brush control occur when grasses and other desired vegetation are allowed to recover from adverse environmental conditions and compete with undesirable brush or weeds.

DIRECTIONS FOR USE

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

Navius VM Herbicide must be used only in accordance with recommendations on this label.

Do not mix, load or apply within a minimum of 15 metres of all wells, including abandoned wells and drainage wells. Do not contaminate water intended for drinking.

Do not graze or feed forage, hay or straw from treated areas to livestock.

Do not use plant material as mulch or compost and do not apply directly on or around desirable plants.

Do not apply through any type of irrigation system.

Do not apply more than a total of 668 g/ha of Navius VM Herbicide per season

<u>NON-CROP AREAS</u> such as Rights of Way, roadsides, industrial sites, fence lines and other non-crop areas.

FOR CONTROL OF BRUSH, WOODY PLANTS AND OTHER BROADLEAF WEEDS

Navius VM Herbicide may be applied as a broadcast treatment at 167, 334, 499 or 668 grams per hectare (see list below). Add a non-ionic surfactant at 0.25% v/v (2.5 litres per 1000 litres of spray solution) or Merge Adjuvant* at 1.0% v/v (10 litres per 1000 litres of spray solution) or Crop Oil Concentrate at 1% v/v (10 litres per 1000 litres of spray solution).

Temporary chlorosis, height reduction or growth suppression of grass species may occur.

For best results, applications of Navius VM Herbicide should be made when brush species and weeds are actively growing. Complete coverage of all foliage and stems is required for brush control. Applications should be made after the target species have leafed out, but before fall colouration has begun. Do not treat brush species that exceed 2.5 m in height (unless otherwise indicated) or control may be decreased.

Note: Where dense stands exist or where growth of the target species is advanced, use of the high

volume foliar application method is recommended.

Apply to brush species as a full coverage spray to foliage and stems using equipment that will ensure uniform coverage.

Navius	VM Herbicide
SITES: Industrial Non Crop Arosa	
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brush species after species have leafed out.	
APPLICATION RATES for Ground or Aeri	
Navius VM Herbicide	167 grams/hectare
Adjuvants:	107 gramomodaro
Non-Ionic	0.25% v/v
or	or
Merge Adjuvant*	1% v/v
or	or
Crop Oil Concentrate	1% v/v
Weeds Controlled	
Annual sowthistle	Ox-eye daisy
Ball mustard	Perennial sowthistle
Bluebur	Prostrate pigweed
Canada goldenrod*	Redroot pigweed
Canada thistle	Russian thistle
Chickweed	Scentless chamomille
Common groundsel	Shepherd's-purse
Common tansy	Spotted knapweed
Common yarrow	Stinkweed
Corn spurry	Stork's-bill
Cow cockle	Sumac (smooth, staghorn)
Dandelion	Sweet clover (white, yellow)
Diffuse knapweed	Tartary buckwheat
·	Volunteer canola (except Clearfield
Flixweed	varieties)
Giant buttercup*	Western snowberry
Giant hogweed* (up to 4-leaf)	White cockle
Green smartweed	Wild carrot
Hemp-nettle	Wild mustard
Kochia (including ALS-resistant)	Wild rose
Lady's-thumb	Yellow starthistle
Leafy spurge	
Norwegian cinquefoil*	
Orange hawkweed	
*season-long control	
Weeds Suppressed	
Lamb's-quarters	
Toadflax	
Wild buckwheat	

APPLICATION RATES for Ground or Aerial application		
Navius VM Herbicide	334 grams/hectare	

Adjuvants:	
Non-Ionic	0.25% v/v
or	or
Merge Adjuvant*	1% v/v
or	or
Crop Oil Concentrate	1% v/v

Brush Species Controlled		Maximum height
Manitoba maple (Box Elder)	Acer negundo	2.5 metres
Red maple	Acer rubrum	2.5 metres
Sugar maple	Acer saccharum	2.5 metres
Black tupelo	Nyssa sylvatica	< 1 metre
Common sassafras	Sassafras albidum	2.5 metres
Green ash	Fraxinus pennsylvanica	2.5 metres
White ash	Fraxinus americana	2.5 metres
Black cherry	Prunus serotina	< 3 metres
Chokecherry	Prunus virginica	< 3 metres
Pin cherry	Prunus pensylvanica	< 3 metres
Balsam poplar	Populus balsamifera	2.5 metres
Trembling aspen	Populus tremuloides	< 3 metres
Plains cottonwood	Populus sargentii	2.5 metres
Black poplar	Populus nigra	2.5 metres
Sandbar / Ditchbank willow	Salix exigua or S. interior	2.5 metres
Large pussy willow	Salix discolor	2.5 metres
Yellow poplar (tulip tree)	Liriodendron tulipifera	2.5 metres
Tree of heaven	Alianthus altissima	2.5 metres
Hackberry	Celtis occidentalis	2.5 metres
Balsam fir	Abies balsamea	< 2 metres
Douglas fir	Pseudotsuga menziesii,	< 2 metres
Black spruce	Picea mariana	< 2 metres
Norway spruce	Picea abies	< 2 metres
White spruce	Picea glauca	< 2 metres

APPLICATION RATES for Ground or Aerial application

Navius VM Herbicide	499 grams/hectare
Adjuvants:	
Non-Ionic	0.25% v/v
or	or
Merge Adjuvant*	1% v/v
or	or
Crop Oil Concentrate	1% v/v

Brush Species Controlled		Maximum height
Black oak	Quercus velutina	2.5 metres
Northern red oak	Quercus rubra	2.5 metres
Bitternut hickory	Carya cordiformus	< 2 metres
Pignut hickory	Carya glabra	< 2 metres

APPLICATION RATES for Ground or Aerial application		
Navius VM Herbicide 668 grams/hectare		
Adjuvants:		
Non-Ionic	0.25% v/v	
or	or	
Merge Adjuvant*	1% v/v	
or	or	
Crop Oil Concentrate	1% v/v	

Brush Species Controlled		Maximum height
Eastern white pine	Pinus strobus	< 2 metres
Jack pine	Pinus banksiana	< 2 metres
Red pine	Pinus resinosa	< 2 metres
Western white pine	Pinus monticola	< 2 metres
Balsam fir	Abies balsamea	2-3 metres
Douglas fir	Pseudotsuga menziesii,	2-3 metres
Black spruce	Picea mariana	2-3 metres
Norway spruce	Picea abies	2-3 metres
White spruce	Picea glauca	2-3 metres

TANK MIXES:

In some cases, tank mixing a pest control product with another pest control product or a fertilizer can result in biological effects that could include, but are not limited to: reduced pest efficacy or increased host crop injury. The user should contact Bayer CropScience Inc. at 1-888-283-6847 for information before mixing any pesticide or fertilizer that is not specifically recommended on this label. The user assumes the risk of losses that result from the use of tank mixes that do not appear on this label or that are not specifically recommended by Bayer CropScience Inc.

APPLICATION INFORMATION:

Navius VM Herbicide is a dispersible granule that is mixed in water and applied as a spray. Navius VM Herbicide may be applied broadcast using ground spray equipment, fixed wing aircraft or by helicopter. When applying by fixed wing aircraft or helicopter, follow directions under the Aerial Applications section of this label, otherwise refer to the section on Ground Applications when using surface equipment.

MIXING INSTRUCTIONS:

- 1. Add the proper amount of Navius VM Herbicide into the necessary volume of water in the spray tank with the agitator running. Continuous agitation is required for a uniform suspension and application.
- 2. If a tank mix partner is being used add the required amount once Navius VM Herbicide is in suspension.
- 3. Add a recommended surfactant (non-ionic surfactant at 0.25% v/v or 2.5 L/1000 L spray solution or crop oil concentrate at 1% v/v or 10 L /1000 L spray solution or Merge Adjuvant* at 1% v/v or 10 L/1000 L spray solution).
- 4. If an antifoaming agent is required, add this last.

Use spray preparation of Navius VM Herbicide within 48 hours or product degradation may occur. If spray preparation is left standing without agitation, thoroughly agitate before spraying.

Avoid over-filling of spray tank. Mix only enough product for the job at hand. During spray operation, make scheduled checks of spray equipment to help ensure proper application.

SPRAYER CLEANUP:

Unless the spraying and mixing equipment is dedicated to the uses on this label, immediately after spraying, thoroughly remove all traces of Navius VM Herbicide from mixing and spray equipment as follows:

- 1. Drain tank; then flush tank, boom and hoses with clean water for a minimum of ten minutes. Visually inspect tank to assure removal of all visible residues of Navius VM Herbicide. If necessary, repeat step 1.
- 2. Fill the tank with clean water then add one litre HOUSEHOLD AMMONIA (containing a minimum 3% ammonia) per 100 litres of water. Fill boom and hoses with solution and allow sprayer to sit for 15 minutes. Drain.
- 3. Repeat step 2.
- 4. Nozzles and screens should be removed and cleaned separately. To remove traces of ammonia, rinse the tank, hoses and booms thoroughly with clean water.

CAUTION: Do not use ammonia with chlorine bleach. Using ammonia with chlorine bleach will release a gas with a musty chlorine odour which may cause eye, nose, throat and lung irritation. Do not clean equipment in an enclosed area.

GROUND APPLICATIONS:

<u>Field sprayer application</u>: **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.

Low Volume Foliar Broadcast

Apply to brush species as full coverage spray to foliage and stems in 500 litres spray volume per

hectare, using properly calibrated equipment that will ensure uniform coverage. Direct the spray solution

to thoroughly wet the foliage of the target plants, but not to the point of runoff.

High Volume Foliar Broadcast

For control of brush/woody plants up to 2.5 metres in height (unless otherwise indicated), use Navius VM Herbicide at rates of 334-668 grams per hectare in enough water to make 1000 litres of spray solution. Apply as a full coverage spray to foliage, stems and limbs using up to 2000 litres of total spray per hectare depending on plant species, height and density of growth, and on the type of spray equipment used. Do not apply more than 668 grams of Navius VM Herbicide per hectare.

SPRAY DRIFT CONTROL:

The potential for spray drift with ground broadcast applications can be reduced by:

- Applying a coarse spray using large droplet producing nozzle tips.
- Keep the spray boom as low as possible.
- Apply with minimum wind velocity.

 When using a power sprayer and handgun, direct sprays no higher than the tops of the target plants.

AERIAL APPLICATIONS:

Navius VM Herbicide may be applied by either fixed wing aircraft or helicopter spray equipment. However, do not make applications by fixed wing aircraft unless appropriate buffer zones can be maintained to prevent spray drift out of the target area.

<u>Aerial application</u>: **DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** apply when wind speed is greater than 10 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. For aerial applications near susceptible crops or other desirable plants, use a drift control additive as recommended by the manufacturer, or apply through a "Microfoil" or "Thru-Valve" boom, or use an equivalent drift control system.

In general, aerial application spray volumes range from 30 to 50 liters per hectare. Refer to the tank-mix partner label for additional instructions and precautions.

AERIAL APPLICATION PRECAUTIONS

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.

Apply only when meteorological conditions at the treatment site allow for complete and even 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.

OPERATOR PRECAUTIONS

Do not allow the pilot to mix chemicals to be loaded onto the aircraft. Loading of premixed chemicals with a closed system is permitted.

It is desirable that the pilot have 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 zones:

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

For application to rights-of-way, buffer zones for protection of sensitive terrestrial habitats are not required; however, 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 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) and sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands).

Buffer zones for Navius VM Herbicide

			Buffer Zones (metres) Requered Protection of:		uired for the
Method of application	Sites		Freshwater Habitat of Depths:		Terrestrial habitat
		Less than 1	Greater than 1 m		
Field sprayer*	Non-crop a	reas	5	2	45**
Aerial	Non-crop areas	Fixed wing	250	100	800**
		Rotary wing	80	45	800**

^{*}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 labelled 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 canopy, the labelled buffer zone can be reduced by 30%.

NOTE: Applicators may recalculate a site-specific buffer zone by combining information on current weather conditions and spray configuration for the following applications: all airblast applications, and for field and aerial applications which specify the following droplet size category wording on the product label: 'DO NOT apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) Coarse classification'. To access the Buffer Zone Calculator, please visit the Pest Management Regulatory Agency web site.

For tank mixes, 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.

FIELD BIOASSAY:

^{**} Buffer zones for the protection of terrestrial habitats are not required for use on rights-of-way including railroad ballast, rail and hydro rights-of-way, utility easements, roads, and training grounds and firing ranges on military bases.

If non-crop sites treated with Navius VM Herbicide are to be converted to a food, feed, or fiber agricultural crop, or to a horticultural crop, a field bioassay should be completed before planting the desired crop.

Select a representative area or areas of the field previously treated with Navius VM Herbicide to plant your bioassay crop(s). Be sure to consider factors such as size of field, soil texture, drainage and turn-around areas when selecting the site(s) that are most representative of the soil conditions in the field. On large fields, more than one site may be needed in order to obtain reliable results.

Plant the test strips perpendicular to the direction in which the field was sprayed. The strips should be long enough to cross the width of several spray swaths. Large test strip areas are more reliable than small ones.

Use standard tillage and seeding equipment to plant the bioassay.

Prepare a seed bed and plant the crops and varieties you want the option of growing the following year. It is important to use the same planting time, conditions, techniques and cultural practices you normally use to plant and grow the bioassay crop(s). Also plant into an adjacent area not treated with Navius VM Herbicide to use as a comparison.

As the crop(s) emerges and grows, examine these key points in Navius VM Herbicide treated and non-treated areas:

crop stand	root development	rate of growth
plant colour and vigour	yield	

Allow the bioassay crop(s) to grow to maturity while making your observations.

Do not overspray the test strips with herbicides that may damage the bioassay crop(s).

If the bioassay indicates that Navius VM Herbicide residues are still present do not rotate to other crops until bioassay results indicate that susceptible crops are growing normally.

INVASIVE SPECIES MANAGEMENT

Navius VM Herbicide can be an important component of integrated vegetation management programs to treat certain invasive and noxious weed species infestations. Consult local agriculture and land management resource specialists and/or invasive plant councils. These organizations can provide guidance on best management practices and the development of integrated vegetation management programs. Rapid response needs to be taken to quickly contain, deny reproduction, and if possible eliminate the invader. Navius VM Herbicide has either been demonstrated to be efficacious on the invasive weed species listed below or on closely related weed species.

Weed	Species
Common crupina	Crupina vulgaris
Iberian starthistle	Centaurea iberica
South African ragwort	Senecio inaequidens
Yellow starthistle	Centaurea solstitialis

Apply a maximum of 668 g/ha of Navius VM Herbicide per year.

RESISTANCE-MANAGEMENT RECOMMENDATIONS:

For resistance management, please note that Navius VM Herbicide is both a Group 2 and 4 herbicide. Any weed population may contain or develop plants naturally resistant to Group 2 and/ or 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 Navius VM Herbicide or other Group 2 and 4
 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 your local Bayer representative or call Bayer CropScience Inc. toll-free at 1-888-283-6847.

STORAGE:

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

DISPOSAL/ DECONTAMINATION:

- 1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
- 2. Follow provincial instruction for any required additional cleaning of the container prior to its disposal.
- 3. Make the empty container unsuitable for further use.
- 4. Dispose of the container in accordance with provincial requirements.
- 5. 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 clean-up 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.

The seller warrants that the purchase by the buyer and the use of this product, as such, will not infringe any Canadian patent.

Navius is a registered trademark of Bayer.

* All other products mentioned are trademarks of their respective companies.

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