

Herbicides Registered for Use in Saskatoon Berry Production in Michigan - 2017

The information for some of the active ingredients and products below are modified excerpts from the 2017 Michigan Fruit Management Guide, Extension Bulletin E-154. Other information is from product labels. Brand names are provided only for reference, and no endorsement of specific products is implied.

Several alternative products with equivalent active ingredients may be available; only common or representative products are given for the sake of brevity. Be sure to check all product labels carefully before purchase to verify their legality for use on saskatoons in Michigan (if Juneberry is listed on the label the product may be used on saskatoons) and possible differences in application rates.

Casoron 4G

Dichlobenil	Group 20 (L)	REI 12 hours	PHI
<i>100-150 lbs/acre</i>	<i>minimum of 4 weeks after planting</i>		

Casoron controls quackgrass, yellow nutsedge and other perennials in established fruit plantings. It is currently sold as a granular or liquid formulation. It is most effective if applied in November. Four pounds of active ingredient (100 lb. of 4 G or 2.8 gal of 1.4 CS) per acre will control most perennials until midsummer of the following year.

Alternative products with the same active ingredient: Casoron G-4.

Clethodim 2E

Clethodim	Group 1(A)	REI 24 hours	PHI 14 days
<i>6-8 fl.oz./acre/application</i>	<i>32 fl.oz./acre/year limit</i>	<i>14 day minimum interval</i>	

For postemergent annual and perennial grass control. Always include 1% COC or 0.25% NIS.

Alternative products with the same active ingredient: Arrow 2EC, Cleanse 2 EC, Section 2EC, Section Three, Select Max, Vaquero, Volunteer, Willowood Clethodim.

Forfeit 280

Glufosinate-ammonium	Group 10 (H)	REI 12 hours	PHI 14 days
<i>48-82 fl.oz./acre/application</i>	<i>max 164 fl.oz./acre/year</i>		

Forfeit is a foliar-active, non-selective herbicide that controls a broad spectrum of emerged annual and perennial grasses and broadleaf weeds. Best results are obtained when it is applied to actively growing weeds. Apply 1 lb/acre when weeds are less than 8 inches tall and 1.5 lb/acre when weeds are 8 inches or taller. Glufosinate does not provide residual weed control. Avoid contact with green bark or foliage. Do not apply within 14 days of harvest.

Alternative products with the same active ingredient: Cheetah, Lifeline, Rely 280 and several others.

Poast 1.5 E

Sethoxydim	Group 1 (A)	REI 12 hours	PHI 45 days
<i>1.0-2.5 pt./acre/application</i>		<i>maximum 5 pts./acre/year</i>	

Poast is a post-emergence grass herbicide. Most grasses are controlled with 1 to 2 pints per acre. It does not control broadleaves. Add crop oil concentrate (COC) or nonionic surfactant (NIS) to the spray solution. Applicator must possess a special supplemental label for legal use on saskatoons.

RoundUp Powermax

Glyphosate	Group 9 (G)	REI 4 hours	PHI 14 days
<i>Maximum 6 qts./acre/year</i>			

Glyphosate is the active ingredient in many products, but relatively few of the products are registered for use on saskatoons. Be cautious in selecting the proper products. Glyphosate controls both annual and perennial weeds. It is translocated in perennial plants and kills the underground parts. This characteristic makes it an excellent herbicide for control of quackgrass, Canada thistle, field bindweed and many other perennial weeds. Glyphosate has no pre-emergence activity. Glyphosate can seriously damage plants if it contacts green leaves or shoots, so applications need to be carefully directed to avoid plant contact. Apply in a maximum of 20 gal of water per acre.

Alternative products with the same active ingredient: Alecto 41-S, Cornerstone, Duramax, Durango DMA, Envy, GlyStar Plus, Honcho plus, RoundUp Weathermax 5.5 L.

Stealth

Pendimethalin	Group 3	REI 24 hours	PHI 60 days
<i>2.4-4.8 qt./acre/application</i>		<i>maximum 4.8 qt./acre/year</i>	

The active ingredient in Stealth is a pre-emergent herbicide for both grasses and broad-leaved weeds. On-half inch of rainfall or irrigation within 7 days of the application is needed to move the chemical into the soil.

The more familiar product named Prowl contains the same active ingredient, but it is not legal for use on saskatoons.

Tuscany SC

Flumioxazin	Group 14	REI 12 hours	PHI 7 days
<i>12 fl.oz./acre/application</i>		<i>maximum 12 fl.oz./acre/year</i>	

Flumioxazin is a pre-emergent herbicide that has good efficacy against several difficult weeds, such as lambsquarters, mustards, nightshades, morningglory and pigweeds.

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The more familiar product named Chateau contains the same active ingredient, but it is not legal for use on saskatoons.

Zeus XC

Sulfentrazone **Group 14 (E)** **REI 12 hours** **PHI 3 days**
8-12 fl.oz./acre/application *maximum 12 fl.oz./acre/year*

Zeus XC is a soil-applied pre-emergent herbicide with numerous broadleaf, grass and sedge weeds on the label. It must be applied by ground equipment only. Apply only to plants which have been established for three growing seasons and are in good health. Avoid spray or drift contact with bushes. Best results are obtained when the soil is moist at the time of application and the application is followed by at least 1/2 inch of rainfall or irrigation within two weeks of the application. Willowood Sulfentrazone 4SC contains the same active ingredient.

Zeus Prime XC

Sulfentrazone + carfentrazone **Group 14 (E)** **REI 12 hours** **PHI 3 days**
7.7-15.2 fl oz/acre/application; maximu of 15.2 fl oz/acre/year; if applied in a band of 50% or less of the area, another application may be made per year.

Zeus Prime XC has preemergence and postemergence activity on many broadleaves and grasses. It is effective for control of pigweeds, common lambsquarters, morningglory, mustards, and nightshade. Use on plants established at least 2 years.

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