

# Herbicide Tables

This table includes selected information about the herbicides recommended in this guide. The products are listed alphabetically by **Active Ingredient**, with a selection of **Trade Names**.

° = indicates that small package and ready-to-use formulations are commonly available at hardware stores and garden center

\* = indicates that some formulations may be Restricted Use Pesticides (RUP) and require a certification to purchase and use

† = indicates biorational formulations that may be listed by the Organic Materials Research Institute (OMRI) and may be allowed in organic production – check with your certifier

‡ = indicates additional formulations that do not currently occur elsewhere in this guide as crop protection recommendations because they are not as well understood to be effective options

The **Signal Word** is an indication of the human health hazard of the product.

The **Leaching Risk** and **Runoff Risk** columns have one of four listings:

*v. low* = the product is not likely to move with water

*low* = the product has a low likelihood of moving with water

*med* = the product has an intermediate likelihood of moving with water

*high* = the product has a high likelihood of moving with water

The **Respirator Use** column has one of the following listings:

*no* = you do not need to use a respirator

*yes* = you do need some sort of respirator for some part of the process (see label for details)

*some* = certain Trade Names may require respirators, but others may not

Active Ingredients	Trade Names	Signal Word	Leaching Risk	Runoff Risk	Respirator Use
°2,4-D	Formula 40, Savage, Weedar	danger	med	low	some
*acetachlor, atrazine	Degree Xtra, Fultime, Harness Extra, Keystone	caution, warning	high	med	no
acetochlor	Breakfree, Harness, Surpass EC, TopNotch	warning	med	low	no
*acetochlor, atrazine	Breakfree ATZ, Breakfree ATZ Lite	warning	high	med	no
acifluorfen	Ultra Blazer	danger	high	med	no
‡allyl isothiocyanate	Dominus	danger	-	-	yes
‡‡ammoniated soap of fatty acids	Final-San-O	warning	-	-	no
ammonium nonanoate	AXXE	warning	low	low	no
*atrazine	Aatrex 4L, Aatrex Nine-O, Combelt 4L, Combelt 90DF, Infantry 4L, Infantry 90DF	caution	high	med	some
*atrazine, mesotrione, s-metolachlor, bicycloporyne	Acuron	caution	high	med	no
*atrazine, pyoxasulfone, fluthiacet-methyl	Anthem ATZ	warning	high	med	no
*atrazine, s-metolachlor	Bicep II Magnum, Bicep Lite II Magnum Lexar	caution	high	med	no
benefin	Balan DF	warning	-	-	no
bensulide	Prefar 4E	caution	med	high	yes
bentazon	Basagran, Bashazon, Broadloom, Biscayne	caution, danger	med	low	no
bentazon, sethoxydim	Rezult	caution	low	low	no
bicycloporyne	Optogen	caution	low	med	no
bromacil	Hyvar X	caution	high	med	yes
bromoxynil	Moxy 2E	warning	low	med	no
°‡‡caprylic acid, capric acid	HomePlate	caution	-	-	no
carfentrazone	Aim EC	caution	low	low	no
carfentrazone, sulfentrazone	Spartan Charge	caution	high	med	no
clethodim	Clethodim 2E, Select Max	caution, warning	low	low	no
clomazone	Caravel, Command 3ME	caution	med	low	no
clopyralid	Spur, Stinger	caution	high	low	no
‡‡clove oil, rosemary oil, peppermint oil, cottonseed oil	GreenFurrow EF 400	exempt	low	med	no
°‡‡corn gluten	Preen Organic Weed Preventer	caution	low	med	no
cycloate	Ro-Neet	caution	med	low	yes
DCPA	Dacthal Flowable	caution	low	high	no

Active Ingredients	Trade Names	Signal Word	Leaching Risk	Runoff Risk	Respirator Use
dicamba	Banvel, Clarity	warning	high	low	no
dichlobenil	Casoron 4G	caution	med	med	no
dimethenamid-p	Outlook	warning	med	low	no
*dimethenamid-p, atrazine	Commit ATZ, Guardsman Max	warning	high	med	no
diquat	Reglone	warning	v. low	high	no
*diuron (*MI only)	Direx 4L, Karmex DF, Parrot 4L, Parrot DF	caution	med	med	yes
EPTC	Eptam 7E, Eptam 20G	caution, warning	low	low	yes
ethalfluralin	Curbit EC, Sonalan HFP	danger	low	high	no
ethalfluralin, clomazone	Strategy	caution	med	high	no
ethofumesate	Ethotron SC, Nortron SC	caution	med	low	no
fluazifop-P	Fusilade DX	caution	low	med	yes
flumioxazin	Chateau SW, Valor SX	caution	low	med	yes
fluroxypyr	Starane Ultra	warning	med	low	no
fluthiacet-methyl	Cadet	warning	low	low	no
fomesafen	Reflex	danger	high	med	no
foramsulfuron	Option	caution	med	low	no
glufosinate	Liberty 280 SL, Rely 280	warning	low	low	yes
°glyphosate	Roundup PowerMax, Roundup Ultra, Touchdown	caution	low	high	no
glyphosate, sulfentrazone	Spartan Advance	caution	high	high	no
halosulfuron	Permit, Sandea	caution	med	low	no
imazamox	Raptor	caution	high	med	no
imazethapyr	Pursuit	caution	high	med	no
imazethapyr, saflufenacil	Optill	caution	high	med	no
imazosulfuron	League	caution	med	low	no
linuron	Linex 4L, Lorox DF	caution	med	med	no
MCPB	Thistrol	danger	low	low	no
mesotrione	Callisto, Quartz	caution	high	low	no
*mesotrione, atrazine	Callisto Xtra	caution	high	med	no
metribuzin	TriCor DF, TriCor 4F	caution	high	low	no
napropamide	Devrinol DF-XT	caution	med	med	no
nicosulfuron	Accent Q	caution	high	low	no
nicosulfuron, mesotrione	Revulin Q	caution	high	low	no
norflurazon	Solicam DF	caution	med	med	no
oxyfluorfen	Goal 2XL, GoalTender	caution, warning	v. low	med	no
*paraquat	Firestorm, Gramoxone SL	danger	v. low	high	yes
pelargonic acid	Scythe	warning	-	-	no
pendimethalin	Prowl 3.3 EC, Prowl H2O, Satellite Hydrocap	caution	low	high	no
pendimethalin, metribuzin	Tripzin ZC	caution	high	high	no
*phenmedipham	Spin-Aid	danger	low	med	no
phenmedipham, desmedipham	Betamix	warning	low	med	no
primisulfuron	Beacon	caution	high	low	no
prometryn	Caparol 4L	caution	med	med	yes
*pronamide	Kerb SC	caution	-	-	no
pyraflufen	Venue	caution	low	med	no
pyridate	Tough	warning	v. low	Low	no
pyroxasulfone	Zidua	caution	med	low	yes
pyroxasulfone, fluthiacet-methyl	Anthem Maxx	caution	low	low	no
quinclorac	QuinStar 4L	caution	high	med	no
quizalofop	Assure II, Targa	danger	med	high	no
rimsulfuron	Matrix SG	caution	med	low	no
saflufenacil	Sharpen	caution	med	low	no
°sethoxydim	Poast	warning	low	low	no
s-metolachlor	Dual Magnum, Dual II Magnum, Stalwart C	caution	high	med	no
*s-metolachlor, atrazine, mesotrione	Lexar, Lumax, Stalwart 3W	caution	high	med	no
sodium chlorate	Defol 5	caution	high	med	no
sulfentrazone	Spartan 4F, Portfolio 4F, Sulfin 4SC, Zeus XC, Zone 4F	caution	high	med	no
tembotrione	Laudis	caution	high	med	no
terbacil	Sinbar WDG	caution	high	med	no
tolpyralate	Shieldex	caution	low	low	no
topramezone	Armezon, Impact	caution	high	med	no
topramezone, dimethenamid-p	Armezon Pro	caution	high	med	yes
topramezone, glufosinate	Sinate	caution	high	med	no
°trifluralin	Treflan 4EC, Triflurex HFP	caution	low	high	no

## Small package hardware and garden center herbicides

This table includes additional pesticides that you may find readily available at hardware stores and garden centers in smaller quantities. The products are listed alphabetically by **Active Ingredient**, with a selection of **Trade Names**. RTU = Ready-To-Use without dilution. RTS = Ready-To-Spray with hose-end container.

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‡ = indicates additional formulations that do not currently occur elsewhere in this guide as crop protection recommendations because they are not as well understood to be effective options

Active Ingredients	Trade Names
2,4-D amine	Hi-Yield 2,4-D amine
†ammoniated soap of fatty acids	Fertilome Grass & Weed Killer Non-Selective Concentrate and RTU
‡caprylic acid, capric acid	Bonide Botanical KleenUp, Bonide BurnOut FII
†corn gluten	Bonide Maize Weed Preventer, Espoma Organic Weed Preventer, Preen Natural Weed Preventer, Preen Organic Weed Preventer
glyphosate	Bonide KleenUp Super Concentrate HE and RTU, Southern Ag Weed Pro
sethoxydim	Bonide Grass Beater II, Hi-Yield Grass Killer, Fertilome Over-The-Top II, Monterey Grass Getter
trifluralin	Hi-Yield Herbicide Granules Weed and Grass Preventer, Preen Garden Weed Preventer, Monterey Vegetable & Ornamental Weeder