

Herbicide Active Ingredient	Trade Name	Formulation	Respirator Required – Mixing Loading	Respirator Required - Application
carfentrazone - ethyl	Aim EW	EC	No	No
clethodim	Select 2EC	2EC	No	No
	Volunteer	2EC	No	No
	Select Max	0.97EC	No	No
dichlobenil	Casoron 4G	4G	No	No
	Casoron CS	1.4L	No	No
diuron	Karmex, Direx, & others	80DF	No	No
	Direx, others	4L	Yes ¹	Yes ¹
	Direx 4L	4L	Yes ¹	Yes ¹
	Karmex DF	80DF	Yes ¹	Yes ¹
	Karmex XP	80DF	Yes ¹	Yes ¹
fluazifop-P-butyl	Fusilade DX	2EC	Yes ²	No
flumioxazin	Chateau SW	51WDG	Yes ³	Yes ³
glufosinate-ammonium	Rely	1EC	Yes ⁴	No
	Rely 280	2.34EC	Yes ⁵	No
glyphosate	Roundup Ultra	4L	No	No
	Touchdown Herbicide	3EC	No	No
	Touchdown Total, Traxion	4.17L	Yes ⁶	No
	Touchdown HiTech	5F	No	No
	Roundup Ultramax	5L	Yes ⁶	No
indaziflam	Alion	SC	Yes ⁶	No
isoxaben	Gallery	75DF	No	No
napropamide	Devrinol	50DF	No	No
norflurazon	Solicam	80DF	No	No
oryzalin	Surflan	4AS	No	No
	Oryzalin	4AS	No	No
oxyfluorfen	Goal 2XL	2EC	No	No
	Goal Tender	4EC	No	No
paraquat	Gramoxone SL	2L	Yes ⁷	Yes ⁷
pelargonic acid	Scythe	4.2EC	No	No
pendimethalin	Pendimax	3.3L	No	No
	Prowl	3.3EC	No	No
	ProwlH ₂ O	3.8EC	No	No
pronamide	Kerb	50WSP	No	No
rimsulfuron	Matrix FNV	25DF	No	No
sethoxydim	Poast	1.5EC	No	No
simazine	Princep Caliber 90 and others	90WDG	Yes ⁸	No
	Princep and others	4L	No	No
trifluralin	Treflan and others	various	No	No
Trifluralin + isoxaben	Snapshot	2.5TG	No	No

1 Respirator as listed on label is required for mixers, loaders, other applicators (not including pilots, flaggers and groundboom applicators) and other handlers.

2 Mixers/loaders supporting aerial applications to crops over 720 acres per day must wear a PF5 respirator.

3 Aerial application to artichoke, mixer/loaders must also wear filtering face piece respirator. For ground boom application to olive and pomegranate, mixer/loaders must also wear filtering face piece respirator.

4 Ensure adequate ventilation. If not adequate, use a chemical cartridge-type respirator approved by the National Institute of Occupational Health and Safety.

5 Mixers/loaders supporting aerial applications must wear a dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C), or a NIOSH approved respirator with any N, R, P or HE filter.

6 A NIOSH-certified combination air-purifying respirator with an N, P, R or HE class filter and an organic vapour cartridge may be used under certain circumstances where airborne concentrations are expected to exceed exposure limits (e.g. emergency spills).

7 A dust mist NIOSH-approved respirator with any N, R, P, or HE filter for applicators and other handlers, and mixers and loaders. Face shield as well for mixers and loaders.

8 A NIOSH-approved respirator with a dust mist filter (with MSHA/NIOSH approval number prefix TC-21C or with any N, R, P, or HE filter) must be worn by mixers and loaders supporting groundboom applications.