



SUPPLEMENTAL LABEL

MESOTRIONE 4SC

EPA Reg. No. 42750-315

**POME FRUIT (apple, crabapple,
pear, quince, cultivars, varieties
and/or hybrids of these)**

(Not for use in California)

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. This label must be in the possession of the user at the time of pesticide application.

Note: All applicable directions, restrictions, and precautions on the MESOTRIONE 4SC container label must be followed. This labeling contains supplemental instructions and restrictions for use of this product which may not appear on the container label. Read and follow all precautionary statements and all other information appearing on the product label.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR, Part 170. Refer to label booklet under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

PRECAUTIONS

1. To avoid crop injury, apply the spray to the orchard floor and to the weeds, avoiding contact with crop foliage, stems or fruit. Contact of MESOTRIONE 4SC with the crop may result in bleaching injury that is typically temporary. Use trunk guards to protect plants until adequate bark has developed.
2. Specified rates are based on broadcast treatment. For band applications around trees in fruit plantings, reduce the broadcast rate of MESOTRIONE 4SC and carrier per acre in proportion to the area actually sprayed. (See Banded Applications Section.)

RESTRICTIONS:

- MESOTRIONE 4SC can only be applied in pome fruit trees that have been established for a minimum of 12 months.
- Do not apply in orchards that are stressed due to poor weather or other abiotic factors.
- Do not exceed a total of 12 fl oz per acre (0.376 lb ai/A) of MESOTRIONE 4SC per year or in a 12-month period.
- Do not exceed 6 fl oz per acre (0.188 lb ai/A) of MESOTRIONE 4SC for the first application.
- Do not exceed 3 applications per year or in a 12-month period.
- Allow at least 5 months between applications of MESOTRIONE 4SC at 6 fl oz/A, and at least 6 weeks between applications of 6 fl oz/A, and subsequent applications of 3 fl oz/A. (Applications must follow one of the four programs listed in Table 6 below.)
- Do not harvest pome fruit trees within 30 days after application.
- Do not use on soils with greater than 20% gravel.
- Do not apply MESOTRIONE 4SC through any type of irrigation system.
- Do not apply MESOTRIONE 4SC by air.



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Spray Additives

For application to emerged weeds, the use of crop oil concentrate (COC) type adjuvant at 1% v/v or non-ionic surfactant (NIS) at 0.25% v/v is recommended. Addition of ammonium sulfate or other nitrogen-based adjuvants will increase efficacy when used in combination with COC or NIS. For more information see Spray Additives section on this label.

Banded Applications

When applying a row or banded treatment of MESOTRIONE 4SC, the following formula may be used to calculate the amount per acre:

$$\frac{\text{band width in inches}}{\text{row width in inches}} \times \text{broadcast rate per acre} = \text{Amount needed per acre of field}$$

Tank Mix Instructions

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

MESOTRIONE 4SC may be mixed and applied in combination with most commonly used herbicides registered for use in the approved crops in order to expand the postemergence. These tank mixtures can be used to help control or manage the development of resistant weeds. The application of mixtures or sequences of effective herbicides, with different sites of action, can provide the diversity needed for management of herbicide resistance.

Refer to individual product labels for precautionary statements, restrictions, rates, approved uses and a list of weeds controlled.

MESOTRIONE 4SC provides both postemergence and preemergence control of susceptible weeds. Best control is obtained if postemergence applications are made before weeds reach 5 inches in height (Table 1) or before germination of seed for preemergence control (Table 2). Rainfall or irrigation soon after application will enhance preemergence activity.

Table 1. Weeds Controlled With Postemergence Applications of MESOTRIONE 4SC

Weed Common Name	Weed Scientific Name	MESOTRIONE 4SC 3 fl. oz./A	MESOTRIONE 4SC 2.5-3.0 fl. oz./A + Atrazine ¹
		Apply to Weeds <5 Inches Tall ²	
Amaranth, palmer	<i>Amaranthus palmeri</i>	PC ³	C ³
Amaranth, powell	<i>Amaranthus powellii</i>	C	C
Amaranth, spiny	<i>Amaranthus spinosus</i>	C	C
Atriplex	<i>Chenopodium orach</i>	C	C
Broadleaf signalgrass	<i>Urochloa platyphylla</i>	C ³	C ³
Buckwheat, wild	<i>Polygonum convolvulus</i>	PC	PC
Buffalobur	<i>Solanum rostratum</i>	C	C
Burcucumber	<i>Sicyos angulatus</i>	PC	C ³
Carpetweed	<i>Mollugo verticillata</i>	C	C
Carrot, wild	<i>Daucus carota</i>	PC	C
Chickweed, common	<i>Stellaria media</i>	C	C
Cocklebur, common	<i>Xanthium strumarium</i>	C	C

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Weed Common Name	Weed Scientific Name	MESOTRIONE 4SC 3 fl. oz./A	MESOTRIONE 4SC 2.5-3.0 fl. oz./A + Atrazine ¹
		Apply to Weeds <5 Inches Tall ²	
Crabgrass, large	<i>Digitaria sanguinalis</i>	C ³	C ³
Dandelion	<i>Taraxacum officinale</i>	NC	PC
Dock, curly	<i>Rumex crispus</i>	PC	PC
Galinsoga	<i>Galinsoga parviflora</i>	C	C
Hemp	<i>Cannabis sativa</i>	C	C
Horsenettle	<i>Solanum carolinense</i>	PC	C
Jimsonweed	<i>Datura stramonium</i>	C	C
Horseweed (maretail)	<i>Conyza canadensis</i>	PC	C
Knotweed, prostrate	<i>Polygonum aviculare</i>	PC	PC
Kochia	<i>Kochia scoparia</i>	PC ³	C ³
Lambsquarters, common	<i>Chenopodium album</i>	C	C
Mallow, Venice	<i>Hibiscus trionum</i>	NC	C
Morningglory, entireleaf	<i>Ipomoea hederacea</i>	PC	C
Morningglory, ivyleaf	<i>Ipomoea hederacea</i>	PC	C
Morningglory, pitted	<i>Ipomoea lacunosa</i>	PC	C
Mustard, wild	<i>Brassica kaber</i>	C	C
Nightshade, black	<i>Solanum nigrum</i>	C	C
Nightshade, Eastern black	<i>Solanum ptycanthum</i>	C	C
Nightshade, hairy	<i>Solanum sarrachoides</i>	C	C
Nutsedge, yellow	<i>Cyperus esculentus</i>	PC	PC
Pigweed, redroot	<i>Amaranthus retroflexus</i>	C	C
Pigweed, smooth	<i>Amaranthus hybridus</i>	C	C
Pigweed, tumble	<i>Amaranthus albus</i>	C	C
Pokeweed, common	<i>Phytolacca americana</i>	PC	PC
Potatoes, volunteer	<i>Solanum spp.</i>	C	C
Pusley, Florida	<i>Richardia scabra</i>	C ³	C ³
Ragweed, common	<i>Ambrosia artemisiifolia</i>	PC	C
Ragweed, giant	<i>Ambrosia trifida</i>	C ³	C
Sesbania, hemp	<i>Sesbania exaltata</i>	C	C
Sida, prickly (teaweed)	<i>Sida spinosa</i>	NC	C ³
Smartweed, ladysthumb	<i>Polygonum persicaria</i>	C ³	C
Smartweed, pale	<i>Polygonum lapathifolium</i>	C ³	C
Smartweed, Pennsylvania	<i>Polygonum pensylvanicum</i>	C ³	C
Sunflower, common	<i>Helianthus annuus</i>	C	C
Thistle, Canada	<i>Cirsium arvense</i>	NC	PC
Velvetleaf	<i>Abutilon theophrasti</i>	C	C
Waterhemp, common	<i>Amaranthus rudis</i>	C ³	C
Waterhemp, tall	<i>Amaranthus tuberculatus</i>	C ³	C

¹MESOTRIONE 4SC tank mixture with atrazine is approved only for use on corn and sugarcane.

²Under certain situations weeds can be controlled at larger than listed sizes, however to protect crop yield, manage weed resistance and provide consistent control, treat weeds before they exceed 5 inches in height.

³Apply before weed exceeds 3 inches in height.



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C = Control PC = Partial Control NC = Not Controlled

Table 2. Weeds Controlled With Preemergence Applications of MESOTRIONE 4L

Common Name	Scientific Name	MESOTRIONE 4L Applied Alone	MESOTRIONE 4L + Atrazine ¹
Amaranth, palmer	<i>Amaranthus palmeri</i>	C	C
Amarath, powell	<i>Amaranthus powellii</i>	C	C
Amaranth, spiny	<i>Amaranthus spinosus</i>	C	C
Broadleaf signalgrass	<i>Urochloa platyphylla</i>	PC	PC
Buffalobur	<i>Solanum rostratum</i>	C	C
Burclover, California	<i>Medicago polymorpha</i>	C	-
Carpetweed	<i>Mollugo verticillata</i>	C	C
Carrot, wild	<i>Daucus carota</i>	C	-
Chickweed, common	<i>Stellaria media</i>	C	C
Chickweed, mouseear	<i>Cerastium vulgatum</i>	C	-
Cocklebur, common	<i>Xanthium strumarium</i>	PC	C
Crabgrass, large	<i>Digitaria sanguinalis</i>	PC	PC
Dandelion, common (seedling)	<i>Taraxacum officinale</i>	C	-
Deadnettle, purple	<i>Lamium purpureum</i>	C	-
Dock, curly	<i>Rumex crispus</i>	C	-
Eveningprimrose, cutleaf	<i>Oenothera laciniata</i>	C	-
Fiddleneck, coast	<i>Amsinckia intermedia</i>	C	-
Filaree, redstem	<i>Erodium cicutarium</i>	C	-
Filaree, whitestem	<i>Erodium moschatum</i>	C	-
Fleabane, hairy	<i>Conyza bonariensis</i>	C	-
Galinsoga	<i>Galinsoga parviflora</i>	C	C
Geranium, Carolina	<i>Geranium carolinianum</i>	C	-
Groundcherry, smooth	<i>Physalis subglabrata</i>	C	-
Groundsel, common	<i>Senecio vulgaris</i>	C	-
Henbit	<i>Lamium amplexicaule</i>	C	-
Horsenettle	<i>Solanum carolinense</i>	PC	-
Horseweed/marestail	<i>Conyza canadensis</i>	C	-
Jimsonweed	<i>Datura stramonium</i>	C	C
Kochia	<i>Kochia scoparia</i>	PC	C
Lambsquarters, common	<i>Chenopodium album</i>	C	C
Lettuce, prickly	<i>Lactuca serriola</i>	C	-
Mallow, common	<i>Malva neglecta</i>	C	-
Mayweed, chamomile	<i>Anthemis cotula</i>	C	-
Morningglory, entireleaf	<i>Ipomoea hederacea</i>	PC	C
Morningglory, ivyleaf	<i>Ipomoea hederacea</i>	PC	C
Morningglory, pitted	<i>Ipomoea lacunosa</i>	PC	C



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Common Name	Scientific Name	MESOTRIONE 4L Applied Alone	MESOTRIONE 4L + Atrazine ¹
Nettle, burning	<i>Urtica urens</i>	C	-
Nightshade, eastern black	<i>Solanum ptycanthum</i>	C	C
Nightshade, hairy	<i>Solanum sarrachoides</i>	C	C
Pansy	<i>Viola tricolor</i>	C	-
Pigweed, redroot	<i>Amaranthus retroflexus</i>	C	C
Pigweed, smooth	<i>Amaranthus hybridus</i>	C	C
Pigweed, tumble	<i>Amaranthus albus</i>	C	C
Pineappleweed	<i>Matricaria matricariodes</i>	C	-
Puncturevine, common	<i>Tribulus terrestris</i>	C	-
Purslane, common	<i>Portulaca oleracea</i>	C	-
Pusley, common	<i>Richardia scabra</i>	PC	-
Ragweed, common	<i>Ambrosia artemisiifolia</i>	C	C
Ragweed, giant	<i>Ambrosia trifida</i>	PC	C
Redmaids	<i>Calandria caulescens</i>	C	-
Rocket, London	<i>Sisymbrium irio</i>	C	-
Shepherd's-purse	<i>Capsella bursa-pastoris</i>	C	-
Smartweed, ladysthumb	<i>Polygonum persicaria</i>	C	C
Smartweed, pale	<i>Polygonum lapathifolium</i>	C	C
Smartweed, Pennsylvania	<i>Polygonum pennsylvanicum</i>	C	C
Sowthistle, annual	<i>Sonchus oleraceus</i>	C	-
Spanishneedles	<i>Bidens bipinnata</i>	C	-
Sunflower, common	<i>Helianthus annuus</i>	PC	C
Swinecress	<i>Coronopus didymus</i>	C	-
Tasselflower, red	<i>Emilia sonchifolia</i>	C	-
Velvetleaf	<i>Abutilon theophrasti</i>	C	C
Waterhemp, common	<i>Amaranthus rudis</i>	C	C
Vetch, common	<i>Vicia sativa</i>	C	-
Vetch, purple	<i>Vicia benghalensis</i>	PC	-
Waterhemp, tall	<i>Amaranthus tuberculatus</i>	C	C
Willowherb, panicle	<i>Epilobium brachycarpum</i>	C	-

¹MESOTRIONE 4SC tank mixture with atrazine is approved only for use on corn grain sorghum and sugarcane. Refer to the crop sections on this label for specific use directions.

C = Control PC = Partial Control

Use Directions

Apply as a directed or shielded spray. Avoid contact with trunk surfaces, fruit or crop foliage. Do not apply when nuts or fruits are on the ground at harvest. Ensure that the soil is settled, firm and relatively free of debris at time of application. Also ensure that the soil is free of depressions around trees where rain or irrigation water can concentrate. Apply the first application of MESOTRIONE 4SC in late fall/early winter or spring and subsequent applications utilizing one of the programs noted in the Table 3.

Table 3. MESOTRIONE 4SC Application Programs, Rates and Intervals

Program	Application Rate (fl oz/A)			Application Interval (wk)
	1 st Application	2 nd Application	3 rd Application	
1	6	6	-	20
2	6	3	-	6
3	6	3	3	6
4	3	3	3	6



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For optimum postemergence weed control, apply MESOTRIONE 4SC to actively growing weeds in tank mixture with burndown herbicides.

For effective residual weed control, MESOTRIONE 4SC must be moved into the weed seed germination zone.

Subsequent application(s) of MESOTRIONE 4SC can be made alone or in tank mixture, with the herbicides noted above, if weed emergence occurs.

Refer to individual product labels for precautionary statements, restrictions, rates, approved uses and a list of weeds controlled.

Apply MESOTRIONE 4SC in a spray volume of 10-40 gal/A.

AD011118

Manufactured for:
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