

40 C.F.R. § 180.438

Lambda-cyhalothrin and an isomer gamma-cyhalothrin; tolerances for residues.

(a) *General.* (1) Tolerances are established for the combined residues of the pyrethroid lambda-cyhalothrin, 1:1 mixture of (S)- α -cyano-3-phenoxybenzyl-(Z)-(1R,3R)-3-(2-chloro-3,3,3-trifluoroprop-1-enyl)-2,2-dimethylcyclopropanecarboxylate and (R)- α -cyano-3-phenoxybenzyl-(Z)-(1S,3S)-3-(2-chloro-3,3,3-trifluoroprop-1-enyl)-2,2-dimethylcyclopropanecarboxylate and its epimer expressed as epimer of lambda-cyhalothrin, a 1:1 mixture of (S)- α -cyano-3-phenoxybenzyl-(Z)-(1S,3S)-3-(2-chloro-3,3,3-trifluoroprop-1-enyl)-2,2-dimethylcyclopropanecarboxylate and (R)- α -cyano-3-phenoxybenzyl-(Z)-(1R,3R)-3-(2-chloro-3,3,3-trifluoroprop-1-enyl)-2,2-dimethylcyclopropanecarboxylate, on plants and livestocks, as indicated in the following table.

Commodity	Parts per million
Alfalfa, forage	5.0
Alfalfa, hay	6.0
Almond, hulls	1.5
Apple, wet pomace	2.50
Avocado, imported	0.20
Barley, bran	0.2
Barley, grain	0.05
Barley, hay	2.0
Barley, straw	2.0
Brassica, head and stem, subgroup 5A	0.4
Buckwheat, grain	0.05
Canola, refined oil	2.0
Canola, seed	1.0
Cattle, fat	3.0
Cattle, meat	0.2

Corn, field, floarge 6.0 Corn, field, forage 6.0 Corn, field, stower 1.0 Corn, pop, grain 0.05 Corn, pop, grain, floar 0.05 Corn, pop, stower 1.0 Corn, sweet, forage 6.0 Corn, sweet, kernel plus cob with husks removed 0.05 Corn, sweet, kernel plus cob with husks removed 0.05 Cotton, undelinted seed 0.05 Feg 0.01 Fruit, pome, group 12 0.50 Garlic 0.1 Goar, fact 0.1 Goar, meat 0.2 Goar, meat byproducts 0.2 Grain, mapprated fractions 2.0 Grass, forage, fodder and hay, group 17 7.0 Hog, fat 0.0 Hog, meat 0.0 Hog, meat 0.0 Hog, meat 0.0 Hog, for doder and hay, group 17 7.0 Hog, meat 0.0 Hor, dried cones 1.0 Horse, fat 0.0 Horse, fat		
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Corn, field, stover 1.0 Corn, pop, grain 0.05 Corn, pop, grain, flour 0.05 Corn, pop, stover 1.0 Corn, sweet, forage 6.0 Corn, sweet, stover 1.0 Corn, sweet, kernel plus cob with husks removed 0.05 Cotton, undelinted seed 0.05 Egg 0.01 Fruit, pome, group 11 0.30 Fruit, stone, group 12 0.50 Garlic 0.1 Goat, fat 3.0 Goat, meat 0.2 Goat, meat byproducts 0.2 Grain, aspirated fractions 2.0 Grass, forage, fodder and hay, group 17 7.0 Hog, meat 0.01 Hog, meat 0.01 Hog, meat byproducts 0.02 Hog, dried cones 10.0 Horse, fat 3.0 Horse, fat 3.0 Horse, fat 3.0 Horse, face 3.0	Corn, field, forage	6.0
Corn, pop, grain, flour 0.05 Corn, pop, stover 1.0 Corn, sweet, forage 6.0 Corn, sweet, stover 1.0 Corn, sweet, kernel plus cob with husks removed 0.05 Cotton, undelinted seed 0.05 Egg 0.01 Fruit, pome, group 11 0.30 Fruit, stone, group 12 0.50 Goat, fat 3.0 Goat, meat 0.2 Goat, meat byproducts 0.2 Grain, aspirated fractions 2.0 Grass, forage, fodder and hay, group 17 7.0 Hog, meat 0.01 Hog, meat byproducts 0.02 Horse, fat 3.0	Corn, field, grain	0.05
Corn, pop, grain, flour 0.05 Corn, pop, stover 1.0 Corn, sweet, forage 6.0 Corn, sweet, stover 1.0 Corn, sweet, kernel plus cob with husks removed 0.05 Cotton, undelinted seed 0.05 Egg 0.01 Fruit, pome, group 11 0.30 Fruit, stone, group 12 0.50 Garlic 1.0 Goat, fat 3.0 Goat, meat 0.2 Grain, aspirated fractions 2.0 Grain, aspirated fractions 2.0 Grass, forage, fodder and hay, group 17 7.0 Hog, fat 0.2 Hog, meat 0.0 Hog, meat byproducts 0.02 Hop, dried cones 1.0 Horse, fat 3.0 Horse, fat 3.0	Corn, field, stover	1.0
Corn, pop, stover 1.0 Corn, sweet, forage 6.0 Corn, sweet, stover 1.0 Corn, sweet, kernel plus cob with husks removed 0.05 Cotton, undelinted seed 0.05 Egg 0.01 Fruit, pome, group 11 0.30 Fruit, stone, group 12 0.50 Garlic 0.1 Goat, fat 3.0 Goat, meat 0.2 Grain, aspirated fractions 2.0 Grass, forage, fodder and hay, group 17 7.0 Hog, fat 0.2 Hog, meat 0.01 Hoy, meat byproducts 0.02 Hoy, meat byproducts 0.02 Hoy, meat byproducts 0.02 Hoy, fried cones 1.0 Horse, fat 3.0 Horse, fat 3.0	Corn, pop, grain	0.05
Corn, sweet, forage 6.0 Corn, sweet, stover 1.0 Corn, sweet, kernel plus cob with husks removed 0.05 Cotton, undelinted seed 0.05 Egg 0.01 Fruit, pome, group 11 0.30 Fruit, stone, group 12 0.50 Garlic 0.1 Goat, fat 3.0 Goat, meat 0.2 Grain, aspirated fractions 2.0 Grain, aspirated fractions 2.0 Grass, forage, fodder and hay, group 17 7.0 Hog, meat 0.01 Hog, meat byproducts 0.02 Hog, meat byproducts 0.02 Horse, fat 3.0 Horse, fat 3.0 Horse, meat 0.2	Corn, pop, grain, flour	0.05
Corn, sweet, stover 1.0 Corn, sweet, kernel plus cob with husks removed 0.05 Cotton, undelinted seed 0.05 Egg 0.01 Fruit, pome, group 11 0.30 Fruit, stone, group 12 0.50 Garlic 0.1 Goat, fat 3.0 Goat, meat 0.2 Grain, aspirated fractions 2.0 Grass, forage, fodder and hay, group 17 7.0 Hog, meat 0.01 Hog, meat byproducts 0.02 Horse, fat 3.0 Horse, meat 0.02	Corn, pop, stover	1.0
Corn, sweet, kernel plus cob with husks removed 0.05 Cotton, undelinted seed 0.05 Egg 0.01 Fruit, pome, group 11 0.30 Fruit, stone, group 12 0.50 Garlic 0.1 Goat, fat 3.0 Goat, meat 0.2 Grain, aspirated fractions 2.0 Grass, forage, fodder and hay, group 17 7.0 Hog, fat 0.2 Hog, meat byproducts 0.01 Hog, meat pyproducts 0.02 Hog, meat pyproducts 0.02 Hog, efat 0.02 Horse, fat 3.0 Horse, meat 0.2	Corn, sweet, forage	6.0
Cotton, undelinted seed 0.05 Egg 0.01 Fruit, pome, group 11 0.30 Fruit, stone, group 12 0.50 Garlic 0.1 Goat, fat 3.0 Goat, meat 0.2 Grain, aspirated fractions 2.0 Grass, forage, fodder and hay, group 17 7.0 Hog, fat 0.01 Hog, meat 0.01 Hog, meat byproducts 0.02 Hop, dried cones 10.0 Horse, fat 3.0 Horse, meat 0.2	Corn, sweet, stover	1.0
Egg 0.01 Fruit, pome, group 11 0.30 Fruit, stone, group 12 0.50 Garlic 0.1 Goat, fat 3.0 Goat, meat 0.2 Grain, aspirated fractions 2.0 Grass, forage, fodder and hay, group 17 7.0 Hog, fat 0.2 Hog, meat 0.01 Hog, meat byproducts 0.02 Hop, dried cones 10.0 Horse, fat 3.0 Horse, meat 0.2	Corn, sweet, kernel plus cob with husks removed	0.05
Fruit, pome, group 11 0,30 Fruit, stone, group 12 0,50 Garlic 0,1 Goat, fat 3,0 Goat, meat 0,2 Goat, meat byproducts 0,2 Grain, aspirated fractions 2,0 Grass, forage, fodder and hay, group 17 7,0 Hog, fat 0,2 Hog, meat 0,01 Hog, meat byproducts 0,02 Hop, dried cones 10,0 Horse, fat 3,0 Horse, meat 0,2	Cotton, undelinted seed	0.05
Fruit, stone, group 12 0.50 Garlic 0.1 Goat, fat 3.0 Goat, meat 0.2 Goat, meat byproducts 0.2 Grain, aspirated fractions 2.0 Grass, forage, fodder and hay, group 17 7.0 Hog, fat 0.2 Hog, meat byproducts 0.01 Hog, meat byproducts 0.02 Hog, meat byproducts 0.02 Hog, meat byproducts 0.01 Hog, meat byproducts 0.02 Hog, meat byproducts 0.02 Hog, meat byproducts 0.02 Hog, meat byproducts 0.02 Horse, fat 3.0 Horse, meat 0.02	Egg	0.01
Garlic 0.1 Goat, fat 3.0 Goat, meat 0.2 Goat, meat byproducts 0.2 Grain, aspirated fractions 2.0 Grass, forage, fodder and hay, group 17 7.0 Hog, fat 0.2 Hog, meat 0.01 Hog, meat byproducts 0.02 Hop, dried cones 10.0 Horse, fat 3.0 Horse, meat 0.2	Fruit, pome, group 11	0.30
Goat, fat 3.0 Goat, meat 0.2 Goat, meat byproducts 0.2 Grain, aspirated fractions 2.0 Grass, forage, fodder and hay, group 17 7.0 Hog, fat 0.2 Hog, meat 0.01 Hog, meat byproducts 0.02 Hop, dried cones 10.0 Horse, fat 3.0 Horse, meat 0.2	Fruit, stone, group 12	0.50
Goat, meat 0.2 Goat, meat byproducts 0.2 Grain, aspirated fractions 2.0 Grass, forage, fodder and hay, group 17 7.0 Hog, fat 0.2 Hog, meat 0.01 Hog, meat byproducts 0.02 Hop, dried cones 10.0 Horse, fat 3.0 Horse, meat 0.2	Garlic	0.1
Goat, meat byproducts Grain, aspirated fractions Grass, forage, fodder and hay, group 17 Hog, fat Hog, meat Hog, meat byproducts Hop, dried cones Horse, fat Horse, meat Goat, meat byproducts 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0	Goat, fat	3.0
Grain, aspirated fractions Grass, forage, fodder and hay, group 17 Hog, fat Hog, meat Hog, meat byproducts Hop, dried cones Horse, fat Horse, meat Grain, aspirated fractions 2.0 2.0 3.0 3.0 3.0 4.0 4.0 5.0 5.0 6.0 6.0 6.0 6.0 6.0 6	Goat, meat	0.2
Grass, forage, fodder and hay, group 17 Hog, fat O.2 Hog, meat Hog, meat byproducts O.02 Hop, dried cones Horse, fat Another the second of the secon	Goat, meat byproducts	0.2
Hog, fat 0.2 Hog, meat 0.01 Hog, meat byproducts 0.02 Hop, dried cones 10.0 Horse, fat 3.0 Horse, meat 0.2	Grain, aspirated fractions	2.0
Hog, meat Hog, meat byproducts O.02 Hop, dried cones 10.0 Horse, fat 3.0 Horse, meat O.2	Grass, forage, fodder and hay, group 17	7.0
Hog, meat byproducts Hop, dried cones 10.0 Horse, fat 3.0 Horse, meat	Hog, fat	0.2
Hop, dried cones 10.0 Horse, fat 3.0 Horse, meat 0.2	Hog, meat	0.01
Horse, fat 3.0 Horse, meat 0.2	Hog, meat byproducts	0.02
Horse, meat 0.2	Hop, dried cones	10.0
	Horse, fat	3.0
Horse, meat byproducts 0.2	Horse, meat	0.2
	Horse, meat byproducts	0.2

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Lettuce, head	2.0
Lettuce, leaf	2.0
Milk, fat (reflecting 0.4 ppm in whole milk)	10.0
Nut, tree, group 14	0.05
Oat, grain	0.05
Oat, forage	2.0
Oat, hay	2.0
Oat, straw	2.0
Onion, bulb	0.1
Pea and bean, dried shelled, except soybean, subgroup 6C	0.10
Pea and bean, succulent shelled, subgroup 6B	0.01
Peanut	0.05
Peanut, hay	3.0
Pistachio	0.05
Poultry, fat	0.03
Poultry, meat	0.01
Poultry, meat byproducts	0.01
Rice, grain	1.0
Rice, hulls	5.0
Rice, wild, grain	1.0
Rye, bran	0.2
Rye, grain	0.05
Rye, forage	2.0
Rye, straw	2.0
Sheep, fat	3.0
Sheep, meat	0.2
Sheep, meat byproducts	0.2
Soybean	0.01

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Sorghum, grain, grain 0.2 Sorghum, grain, forage 0.30 Sorghum, grain, stover 0.50 Sunflower, cane 0.05 Sunflower, forage 0.2 Sunflower, seed, hulls 0.30 Sunflower, refined oil 0.30 Sunflower, seed 0.2 Tomato 0.1 Tomato, dry pomace 6.0 Tomato, wet pomace 6.0 Vegetable, cucurbit, group 9 0.05 Vegetable, fruiting, group 8 0.20 Vegetable, legume, edible podded, subgroup 6A 0.20 Vegetable, tuberous and corm, subgroup 1C 0.05 Wheat, grain 0.05 Wheat, forage 2.0 Wheat, straw 2.0 Wheat, straw 0.2 Wheat, bran 0.2		
Sorghum, grain, stover 0.50 Sugarcane, cane 0.05 Sunflower, forage 0.2 Sunflower, seed, hulls 0.50 Sunflower, refined oil 0.30 Sunflower, seed 0.2 Tomato 0.1 Tomato, dry pomace 6.0 Tomato, wet pomace 6.0 Vegetable, cucurbit, group 9 0.05 Vegetable, fruiting, group 8 0.20 Vegetable, tuberous and corm, subgroup 6A 0.20 Wheat, grain 0.05 Wheat, grain 0.05 Wheat, forage 2.0 Wheat, straw 2.0	Sorghum, grain, grain	0.2
Sugarcane, cane 0.05 Sunflower, forage 0.2 Sunflower, seed, hulls 0.50 Sunflower, refined oil 0.30 Sunflower, seed 0.2 Tomato 0.1 Tomato, dry pomace 6.0 Tomato, wet pomace 6.0 Vegetable, cucurbit, group 9 0.05 Vegetable, fruiting, group 8 0.20 Vegetable, legume, edible podded, subgroup 6A 0.20 Vegetable, tuberous and corm, subgroup 1C 0.02 Wheat, grain 0.05 Wheat, forage 2.0 Wheat, hay 2.0 Wheat, straw 2.0	Sorghum, grain, forage	0.30
Sunflower, forage 0.2 Sunflower, seed, hulls 0.50 Sunflower, refined oil 0.30 Sunflower, seed 0.2 Tomato 0.1 Tomato, dry pomace 6.0 Tomato, wet pomace 6.0 Vegetable, cucurbit, group 9 0.05 Vegetable, fruiting, group 8 0.20 Vegetable, legume, edible podded, subgroup 6A 0.20 Vegetable, tuberous and corm, subgroup 1C 0.02 Wheat, grain 0.05 Wheat, forage 2.0 Wheat, straw 2.0	Sorghum, grain, stover	0.50
Sunflower, seed, hulls 0.50 Sunflower, refined oil 0.30 Sunflower, seed 0.2 Tomato 0.1 Tomato, dry pomace 6.0 Tomato, wet pomace 6.0 Vegetable, cucurbit, group 9 0.05 Vegetable, fruiting, group 8 0.20 Vegetable, legume, edible podded, subgroup 6A 0.20 Vegetable, tuberous and corm, subgroup 1C 0.05 Wheat, grain 0.05 Wheat, forage 2.0 Wheat, straw 2.0	Sugarcane, cane	0.05
Sunflower, refined oil 0.30 Sunflower, seed 0.2 Tomato 0.1 Tomato, dry pomace 6.0 Tomato, wet pomace 6.0 Vegetable, cucurbit, group 9 0.05 Vegetable, fruiting, group 8 0.20 Vegetable, legume, edible podded, subgroup 6A 0.20 Vegetable, tuberous and corm, subgroup 1C 0.02 Wheat, grain 0.05 Wheat, forage 2.0 Wheat, straw 2.0	Sunflower, forage	0.2
Sunflower, seed 0.2 Tomato 0.1 Tomato, dry pomace 6.0 Tomato, wet pomace 6.0 Vegetable, cucurbit, group 9 0.05 Vegetable, fruiting, group 8 0.20 Vegetable, legume, edible podded, subgroup 6A 0.20 Wegetable, tuberous and corm, subgroup 1C 0.02 Wheat, grain 0.05 Wheat, forage 2.0 Wheat, hay 2.0 Wheat, straw 2.0	Sunflower, seed, hulls	0.50
Tomato O.1 Tomato, dry pomace 6.0 Tomato, wet pomace 6.0 Vegetable, cucurbit, group 9 0.05 Vegetable, fruiting, group 8 0.20 Vegetable, legume, edible podded, subgroup 6A 0.20 Vegetable, tuberous and corm, subgroup 1C 0.05 Wheat, grain 0.05 Wheat, forage 2.0 Wheat, straw 2.0	Sunflower, refined oil	0.30
Tomato, dry pomace 6.0 Tomato, wet pomace 6.0 Vegetable, cucurbit, group 9 0.05 Vegetable, fruiting, group 8 0.20 Vegetable, legume, edible podded, subgroup 6A 0.20 Vegetable, tuberous and corm, subgroup 1C 0.02 Wheat, grain 0.05 Wheat, forage 2.0 Wheat, straw 2.0	Sunflower, seed	0.2
Tomato, wet pomace 6.0 Vegetable, cucurbit, group 9 0.05 Vegetable, fruiting, group 8 0.20 Vegetable, legume, edible podded, subgroup 6A 0.20 Vegetable, tuberous and corm, subgroup 1C 0.02 Wheat, grain 0.05 Wheat, forage 2.0 Wheat, straw 2.0	Tomato	0.1
Vegetable, cucurbit, group 9 O.05 Vegetable, fruiting, group 8 O.20 Vegetable, legume, edible podded, subgroup 6A O.20 Vegetable, tuberous and corm, subgroup 1C Wheat, grain O.05 Wheat, forage Wheat, hay Wheat, straw 2.0	Tomato, dry pomace	6.0
Vegetable, fruiting, group 8 Vegetable, legume, edible podded, subgroup 6A Vegetable, tuberous and corm, subgroup 1C Wheat, grain Wheat, forage Wheat, hay Wheat, straw 2.0	Tomato, wet pomace	6.0
Vegetable, legume, edible podded, subgroup 6A 0.20 Vegetable, tuberous and corm, subgroup 1C 0.02 Wheat, grain 0.05 Wheat, forage 2.0 Wheat, hay 2.0 Wheat, straw 2.0	Vegetable, cucurbit, group 9	0.05
Vegetable, tuberous and corm, subgroup 1C Wheat, grain Wheat, forage 2.0 Wheat, hay 2.0 Wheat, straw 2.0	Vegetable, fruiting, group 8	0.20
Wheat, grain 0.05 Wheat, forage 2.0 Wheat, hay 2.0 Wheat, straw 2.0	Vegetable, legume, edible podded, subgroup 6A	0.20
Wheat, forage 2.0 Wheat, hay 2.0 Wheat, straw 2.0	Vegetable, tuberous and corm, subgroup 1C	0.02
Wheat, hay 2.0 Wheat, straw 2.0	Wheat, grain	0.05
Wheat, straw 2.0	Wheat, forage	2.0
	Wheat, hay	2.0
Wheat, bran 0.2	Wheat, straw	2.0
	Wheat, bran	0.2

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