

# Maximum residue levels for dithiocarbamates

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Draft Commission Regulation as regards maximum residue levels for dithiocarbamates in or on certain products

Draft Annex

## What is changing and why?

Following a comprehensive review of the maximum residue levels (MRLs) for dithiocarbamates, the EU is proposing to amend the MRLs on many foods. The dithiocarbamates group includes the pesticides maneb, mancozeb, metiram, propineb, thiram, and ziram.

For products where the use of dithiocarbamates is not authorised in the EU, if no import tolerances or Codex MRLs (CXLs) exist, the Commission proposes to reduce the MRLs to the limit of determination. This may have particular impacts on exports of nuts and oil palm kernels/fruit.

The changes are set out in Table 1.

## Actions

Suppliers of all products should review their current use of dithiocarbamates (maneb, mancozeb, metiram, propineb, thiram, and ziram) and residue levels. Suppliers of **apples, pears, quinces, medlars and loquats, nuts, and oil palm kernels/fruits** in particular should evaluate their current use of these substances and explore possible alternative solutions in anticipation of these MRL changes.

## Timeline


Adoption of this proposal was originally foreseen for 2025. Adoption of this proposal was originally foreseen for 2025. However, the Regulation is currently put on hold pending ongoing discussions within the Commission ([European Commission 2025](#)).

For more information see the [full record](#) on the AGRINFO website – where you can also view the latest [AGRINFO Update](#) newsletters and [search](#) the database.

## Tables & Figures

Table 1 Changes to maximum residue levels for dithiocarbamates			
Food category	Products	Dithiocarbamates (mg/kg)	
		Old MRL	New MRL
Citrus fruits	Grapefruits, limes	5	0.4
	Oranges	5	2
	Lemons	5	0.1
	Mandarins	5	10
	Other citrus	5	0.01*
Tree nuts	Almonds, pecans	0.05	0.1
	Brazil nuts, cashew nuts, chestnuts, coconuts, hazelnuts/cobnuts, macadamias, pine nut kernels, pistachios	0.05	0.01*
	Walnuts	0.1	0.01*
Pome fruits	Apples, pears, quinces, medlars, loquats/Japanese medlars	5	0.07
Stone fruits	Apricots	2	0.5
	Cherries (sweet)	2	6
	Peaches	2	0.1
	Plums	2	0.9
Berries and small fruits	Table grapes	5	2
	Strawberries	10	0.1
	Blackberries, dewberries, raspberries (red and yellow), azaroles/Mediterranean medlars	0.05*	0.1
	Blueberries, currants (black, red, white), gooseberries (green, red, yellow)	5	2
	Rose hips, mulberries (black and white), elderberries	0.05*	2
Miscellaneous fruit	Dates, carambolas, jambuls/jambolans, litchis/lychees, prickly pears/cactus fruits, star apples/caimitos	0.05*	0.01*
	Kaki/Japanese persimmons	0.2	0.1
	Figs, kiwi fruits (green, red, yellow), American persimmons/Virginia kaki	0.05*	0.1
	Table olives	5	0.2
	Kumquats	0.05*	0.4
	Passionfruits/maracujas	0.05*	1.5
	Avocados, papayas	7	0.1
	Mangoes	2	0.6
	Granate apples/pomegranates, cherimoyas, guavas, breadfruits, durians, soursops/guanabanas	0.05*	0.01*
	Pineapples	0.05*	1.5
Root and tuber vegetables	Potatoes	0.3	0.1
	Cassava roots/manioc, sweet potatoes, yams, arrowroots	0.05*	0.1
	Beetroots	0.5	0.4
	Carrots	0.2	1
	Celeriacs/turnip rooted celeries	0.3	0.1
	Horseradishes	0.2	50
	Jerusalem artichokes	0.05*	0.1
	Parsnips, parsley roots/Hamburg roots parsley, salsifies	0.2	0.1
	Swedes/rutabagas	0.05*	1
	Turnips	0.05*	4
* Limit of determination.		Continued...	

Table 1 Continued			
Food category	Products	Dithiocarbamates (mg/kg)	
		Old MRL	New MRL
Bulb vegetables	Garlic	0.6	0.5
	Onions	1	0.5
	Shallots, spring onions/green onions and Welsh onions	1	0.7
Fruiting vegetables	Tomatoes	3	2
	Sweet peppers/bell peppers	5	1
	Aubergines/eggplants	3	1.5
	Okra/lady's fingers	0.5	0.1
	Gherkins	2	0.4
	Courgettes	2	1
	Melons	1.5	0.5
	Pumpkins	1.5	0.4
	Watermelons	1.5	1
	Sweet corn	0.05*	0.1
Brassica vegetables	Broccoli, cauliflowers	1	1.5
	Brussels sprouts	2	1
	Head cabbages	3	0.4
	Chinese cabbages/pe-tsai, kales	0.5	1
Leaf vegetables, herbs and edible flowers	Lamb's lettuces/corn salads, lettuces, escaroles/broad-leaved endives, purslanes, chervil, celery leaves, parsley, sage, rosemary, thyme, basil and edible flowers, laurel/bay leaves, tarragon	5	0.1
	Cresses and other sprouts and shoots	5	30
	Land cresses, red mustards, baby leaf crops (including Brassica species)	5	1
	Roman rocket/rucola	5	14
	Spinaches, chards/beet leaves, grape leaves and similar species	0.05*	0.1
	Watercresses	0.3	1
	Witloofs/Belgian endives	0.5	0.1
	Chives	5	0.7
Legume vegetables	Beans (with pods)	1	2
	Peas (with pods)	1	3
	Peas (without pods)	0.2	0.1
	Lentils	0.05*	0.1
Stem vegetables	Asparagus, rhubarbs	0.5	0.1
	Cardoons, celeries, Florence fennels, globe artichokes	0.05*	0.1
	Leeks	3	0.5
	Bamboo shoots, palm hearts	0.05	0.01*
Fungi, mosses and lichens	Cultivated fungi, wild fungi	0.05*	0.1
	Mosses and lichens	0.05*	0.01*
Pulses	Lentils, lupins/lupini beans	0.05*	0.1
* Limit of determination.		Continued...	

Table 1 Continued			
Food category	Products	Dithiocarbamates (mg/kg)	
		Old MRL	New MRL
Oilseeds	Poppy seeds, sesame seeds, sunflower seeds, pumpkin seeds, safflower seeds, borage seeds, gold of pleasure seeds, hemp seeds, castor beans	0.1	0.05
	Rapeseeds/canola seeds	0.5	1
	Soyabeans	0.1	0.3
	Mustard seeds	0.1	1
	Cotton seeds	0.1	0.4
Oil fruits	Olives for oil production	5	0.2
	Oil palm kernels, oil palm fruits, kapok	0.1	0.01*
Cereals	Barley	2	1
	Maize/corn	0.05*	0.15
	Buckwheat and other pseudocereals, common millet/proso millet	0.05*	0.1
	Oats	2	0.1
	Rice	0.05*	3
	Rye	1	0.1
	Sorghum	0.05*	0.1
Teas		0.1*	0.05*
Coffee beans		0.1*	0.05*
Herbal infusions	Chamomile, hibiscus/roselle, rose, jasmine, lime/linden, strawberry, rooibos, valerian	0.1*	0.3
	Maté	0.1*	6
Cocoa beans, carobs/ Saint John's breads		0.1*	0.05*
Hops		25	30
Spices	Anise/aniseed, black caraway/black cumin, celery, coriander, dill, fennel, fenugreek, nutmeg, allspice/pimento, Sichuan pepper, caraway, cardamom, juniper berry, peppercorn (black, green, white), vanilla, tamarind, turmeric/curcuma, cloves, saffron, mace	0.1*	0.3
	Cumin	0.1*	10
	Cinnamon, liquorice	0.1*	0.05*
	Capers	25	0.05*
Sugar plants	Sugar beet roots	2	0.5
	Sugar canes	0.05*	0.01*
	Chicory roots	0.05*	0.1
Products of animal origin	Swine, cattle, sheep, goat, horse, and poultry muscle, fat, liver, kidney, edible offals (other than liver and kidney)	0.05*	0.02*
	Milk (cattle, sheep, goat, horse)	0.05*	0.02*
	Bird eggs (chicken, duck, geese, quail)	0.05*	0.02*
* Limit of determination.			
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Source: [Draft Annex](#)

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