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Minimum Risk Pesticide: Definition and Product Confirmation

On this page

- What is a minimum risk pesticide?
- Will EPA confirm that my product is a minimum risk pesticide?
- For more information

What is a minimum risk pesticide?

Because EPA has determined that certain "minimum risk pesticides" pose little to no risk to human health or the environment, EPA has exempted them from the requirement that they be registered under the Federal Insecticide, Fungicide, and Rodenticide Act. <u>This exemption provision is located in 40 CFR 152.25(f)</u>.

Pesticides are used to control various pests, such as mosquitoes, ticks, rats and mice. Pesticides are also used in agriculture to control weeds, insect infestation and diseases. <u>There are many different</u> types of pesticides; each is meant to be effective against specific pests.

Starting in 1996, we exempted such products to reduce the cost and regulatory burdens on businesses and the public for pesticides posing little or no risk, and to focus our resources on pesticides that pose greater risk to humans and the environment.

- Learn about minimum risk pesticide criteria.
- View lists of active ingredients and inert ingredients allowed in minimum risk pesticides.

Will EPA confirm that my product is a minimum risk pesticide?

Generally, we do not review products that claim to meet the criteria set by 40 CFR 152.25(f) for exemption from pesticide regulation for companies planning to market such a product. We also do not provide a label review of such products. The producer is responsible to carefully read the criteria and make an evaluation of how the product meets (or does not meet) the criteria.

If a product does not meet all of the exemption criteria, the product is not exempt from FIFRA regulation under 40 CFR 152.25(f), and sale or distribution of the product without registration may be a violation of FIFRA unless it is otherwise exempt from registration requirements. In these cases, the producer should contact EPA to seek a registration for the product. For the possible consequences of a violation of FIFRA, refer to the section on <u>Enforcement Related to Minimum Risk Pesticides</u>.

For More Information

We can answer questions, or provide additional information. <u>Contact EPA about minimum risk</u> <u>pesticides</u>.

Disclaimer about Minimum Risk Pesticide Web Content

These Web pages provide guidance to persons who are interested in manufacturing, selling or distributing minimum risk pesticides under 40 CFR 152.25(f). This guidance does not create any binding requirements, although it refers to existing statutory and regulatory requirements and guidance. <u>More...</u>

LAST UPDATED ON APRIL 2, 2018

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Conditions for Minimum Risk Pesticides

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A minimum risk product must meet the six conditions listed below. A product that meets all of these six conditions then is exempted from regulation under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), i.e., the pesticide product does not need to be registered with EPA. However, states may require registration under state laws.

For further information see 40 CFR 152.25(f).

Overview Condition 1 Condition 2 Condition 3 Condition 4 Condition 5 Condition 6

Overview

- **Condition 1**: The product's active ingredients must only be those that are listed in 40 CFR 152.25(f)(1).
- **Condition 2**: The product's inert ingredients may only be those that have been classified by EPA as:
 - Listed in 40 CFR 152.25(f)(2)
 - commonly consumed food commodities, animal feed items, and edible fats and oils as described in 40 CFR 180.950(a), (b), and (c); and
 - certain chemical substances listed under 40 CFR 180.950(e).

- Condition 3: All of the ingredients (both active and inert) must be listed on the label. The active ingredient(s) must be listed by label display name and percentage by weight. Each inert ingredient must be listed by label display name.
- **Condition 4**: The product must not bear claims either to control or mitigate organisms that pose a threat to human health, or insects or rodents carrying specific diseases.
- Condition 5: The name of the producer or the company for whom the product was produced and the company's contact information must be displayed prominently on the product label.
- Condition 6: The label cannot include any false or misleading statements.

LAST UPDATED ON MARCH 14, 2018



Active Ingredients Eligible for Minimum Risk Pesticide Products (Updated December 2015)

Provided below is the list of active ingredients that can be used in pesticide products that are exempt from the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) under the Minimum Risk Exemption regulations in 40 CFR 152.25(f).

<u>How to Use this List</u>: The list contains all the eligible active ingredients under 40 CFR 152.25(f)(1). Identify whether your active ingredient is eligible by comparing your ingredient with the label display name and chemical name, and that the Chemical Abstracts Service (CAS) number matches the ingredient you intend to use. Additionally, ensure that your ingredient meets any specifications listed. Any eligible ingredient used must be listed on your product's label using the prescribed label display name.

All listed active ingredients may be used in non-food use products. Under section 408 of the Federal Food, Drug, and Cosmetic Act (FFDCA) and EPA implementing regulations at 40 CFR 180, products intended for use on food-use sites (e.g., used on food, food crops, food contact surfaces, or animal feed commodities) can only include active ingredients with applicable tolerances or tolerance exemptions in 40 CFR 180. Before labeling a minimum risk pesticide product for a food use, verify that the use you are labeling has been approved for each ingredient used in the product in 40 CFR 180.

Label Display	Chemical Name	CAS No.	Specifications	Nonfood	Food
Name				Use	Use
Castor oil	Castor oil	8001-79-4	United States Pharmacopeia (U.S.P.) or equivalent	~	~
Cedarwood oil	Cedarwood oil (China)	85085-29-6		\checkmark	
Cedarwood oil	Cedarwood oil (Texas)	68990-83-0		\checkmark	
Cedarwood oil	Cedarwood oil (Virginia)	8000-27-9		\checkmark	
Cinnamon	Cinnamon	N/A		\checkmark	\checkmark
Cinnamon oil	Cinnamon oil	8015-91-6		\checkmark	\checkmark
Citric acid	2-Hydroxypropane-1,2,3- tricarboxylic acid	77-92-9		\checkmark	\checkmark
Citronella	Citronella	N/A		\checkmark	
Citronella oil	Citronella oil	8000-29-1		\checkmark	
Cloves	Cloves	N/A		\checkmark	\checkmark
Clove oil	Clove oil	8000-34-8		\checkmark	\checkmark

Label Display Name	Chemical Name	CAS No.	Specifications	Nonfood Use	Food Use
Corn gluten meal	Corn gluten meal	66071-96-3		<u>ا</u>	\checkmark
Corn oil	Corn oil	8001-30-7		, ,	, ,
Cornmint	Cornmint	N/A			v
Cornmint oil	Cornmint oil	68917-18-0		, ,	v
Cottonseed oil	Cottonseed oil	8001-29-4			v
Dried blood	Dried blood	68911-49-9		, ,	•
Eugenol	4-Allyl-2-methoxyphenol	97-53-0		\checkmark	
Garlic	Garlic	N/A		\checkmark	\checkmark
Garlic oil	Garlic oil	8000-78-0		, 	
Geraniol	(2E)-3,7-Dimethylocta-2,6- dien-1-ol	106-24-1		√ √	~
Geranium oil	Geranium oil	8000-46-2		\checkmark	
Lauryl sulfate	Lauryl sulfate	151-41-7		\checkmark	\checkmark
Lemongrass oil	Lemongrass oil	8007-02-1		\checkmark	
Linseed oil	Linseed oil	8001-26-1		\checkmark	\checkmark
Malic acid	2-Hydroxybutanedioic acid	6915-15-7		\checkmark	
Peppermint	Peppermint	N/A		\checkmark	\checkmark
Peppermint oil	Peppermint oil	8006-90-4		\checkmark	\checkmark
2-Phenylethyl propionate	2-Phenylethyl propionate	122-70-3		\checkmark	
Potassium sorbate	Potassium (2E,4E)-hexa-2,4- dienoate	24634-61-5		\checkmark	~
Putrescent whole egg solids	Putrescent whole egg solids	51609-52-0		\checkmark	\checkmark
Rosemary	Rosemary	N/A		\checkmark	\checkmark
Rosemary oil	Rosemary oil	8000-25-7		\checkmark	\checkmark
Sesame	Sesame	N/A	Includes ground sesame plant	\checkmark	~
Sesame oil	Sesame oil	8008-74-0		\checkmark	\checkmark
Sodium chloride	Sodium chloride	7647-14-5		\checkmark	\checkmark
Sodium lauryl sulfate	Sulfuric acid monododecyl ester, sodium salt	151-21-3		\checkmark	\checkmark
Soybean oil	Soybean oil	8001-22-7		\checkmark	\checkmark
Spearmint	Spearmint	N/A		\checkmark	\checkmark
Spearmint oil	Spearmint oil	8008-79-5		\checkmark	\checkmark
Thyme	Thyme	N/A		\checkmark	\checkmark
Thyme oil	Thyme oil	8007-46-3		\checkmark	\checkmark
White pepper	White pepper	N/A		\checkmark	\checkmark
Zinc	Zinc	7440-66-6	Zinc metal strips (consisting solely of zinc metal and impurities)	✓	

If the tolerance exemption appears in	Then the inert ingredient may be included in a minimum risk product that is applied to:
40 CFR180.910	Growing crops or raw agricultural commodities after harvest.
40 CFR 180.920	Growing crops
40 CFR 180.930	Animals
40 CFR 180.940(a)	Food-contact surfaces in public eating places, dairy- processing equipment, and food-processing equipment and utensils
40 CFR 180.940(b)	Dairy-processing equipment, and food-processing equipment and utensils
40 CFR 180.940(c)	Food-processing equipment and utensils
40 CFR 180.950	Any food-use site
40 CFR 180.960	Any food-use site
40 CFR 180.1071	One of the 14 specified use patterns appropriate for peanuts, tree nuts, milk, soybeans, eggs, fish, crustacea, and wheat
40 CFR 180.1087	Residues of the biorational nematicide sesame stalk in or on the raw agricultural commodities identified in the tolerance exemption.
40 CFR 180.1233	Potassium sorbate exemption from the requirement of a tolerance
40 CFR 180.1251	Geraniol exemption from the requirement of a tolerance



Inert Ingredients Eligible for FIFRA 25(b) Pesticide Products (Revised November 2016)

Provided below are the inert ingredients that can be used in pesticide products that are exempt from Federal regulation under the Minimum Risk Exemption regulations in 40 CFR 152.25(f).

<u>How to Use this List</u>: To determine if an inert ingredient can be used in minimum risk pesticide products, locate the ingredient in the table below by using the CAS Reg. No. or the chemical name. Once the ingredient has been located, go to the last three columns. All inert ingredients identified below can be used on non-food use sites (e.g., ornamental plants, highway right-of-ways, rodent control). If the inert ingredient can be used in minimum risk pesticides applied to food-use sites (i.e., used on food, food crops, food contact surfaces, or animal feed commodities), there will be a checkmark in the food-use column. When a manufacturer intends to label their minimum risk pesticide product for a food-use, the tolerance exemption citation (third column) provides information on the appropriate food-use sites for a particular chemical substance. This information must be consulted to ensure that each of the ingredients used in the product meet the 40 CFR part 180 requirements for the particular food-use site(s) on that product label.

If the inert ingredient is NOT specifically listed in the table below, then it cannot be used as an inert ingredient in a minimum risk product, UNLESS:

The ingredient is described as a commonly consumed food commodity, animal feed item, or edible fat and oil as specified in 40 CFR 180.950(a), (b), or (c), respectively. Any substance meeting the criteria described in 40 CFR 180.950(a), (b), or (c) may be used as an inert ingredient in any minimum risk pesticide product applied to food-use sites and/or nonfood use sites.

EPA also notes that the specific chemical substances listed under 40 CFR 180.950(e) that are also acceptable for use as inert ingredients in minimum risk pesticide products are duplicated in the following table.

Label Display Name	Chemical Name	CAS No.	Nonfood Use	Food Use	Tolerance Exemption Citation 40 CFR 180.xxx ^{/1,2}
Acetyl tributyl citrate	Citric acid, 2-(acetyloxy)-, tributyl ester	77-90-7	~	~	950(e)
Agar	Agar	9002-18-0	\checkmark		
Almond hulls	Almond hulls	N/A	\checkmark	\checkmark	950(b)
Almond oil	Oils, almond	8007-69-0	\checkmark		
Almond shells	Almond shells	N/A	\checkmark	\checkmark	950(b)

Label Display Name	Chemical Name	CAS No.	Nonfood Use	Food Use	Tolerance Exemption Citation 40 CFR 180.xxx ^{/1,2}
alpha-Cyclodextrin	alpha-Cyclodextrin	10016-20-3	\checkmark	\checkmark	950(e)
Aluminatesilicate	Aluminatesilicate	1327-36-2	\checkmark		
Aluminum magnesium silicate	Silicic acid, aluminum magnesium salt	1327-43-1	~		
Aluminum potassium sodium silicate	Silicic acid, aluminum potassium	12736-96-8	\checkmark		
Aluminum silicate	Aluminum silicate	1335-30-4	\checkmark		
Aluminum sodium silicate	Silicic acid, aluminum sodium salt	1344-00-9	\checkmark	\checkmark	910
Aluminum sodium silicate	Silicic acid (H4 SiO4), aluminum sodium salt (1:1:1)	12003-51-9	\checkmark		
Ammonium benzoate	Benzoic acid, ammonium salt	1863-63-4	\checkmark		
Ammonium stearate	Octadecanoic acid, ammonium salt	1002-89-7	\checkmark	~	910
Amylopectin, acid- hydrolyzed, 1- octenylbutanedioate	Amylopectin, acid- hydrolyzed, 1- octenylbutanedioate	113894-85-2	~	~	950(e)
Amylopectin, hydrogen 1- octadecenylbutanedioate	Amylopectin, hydrogen 1- octadecenylbutanedioate	125109-81-1	V	~	950(e)
Animal glue	Animal glue	N/A	\checkmark	\checkmark	950(e)
Ascorbyl palmitate	Ascorbyl palmitate	137-66-6	\checkmark	\checkmark	910, 930
Attapulgite-type clay	Attapulgite-type clay	12174-11-7	\checkmark	\checkmark	910, 930
Beeswax	Beeswax	8012-89-3	\checkmark	\checkmark	950(e)
Bentonite	Bentonite	1302-78-9	\checkmark	\checkmark	910
Bentonite, sodian	Bentonite, sodian	85049-30-5	\checkmark		
beta-Cyclodextrin	beta-Cyclodextrin	7585-39-9	\checkmark	\checkmark	950(e)
Bone meal	Bone meal	68409-75-6	\checkmark		
Bran	Bran	N/A	\checkmark	\checkmark	1071
Bread crumbs	Bread crumbs	N/A	\checkmark	\checkmark	1071
(+)-Butyl lactate	Lactic acid, n-butyl ester, (S)	34451-19-9	\checkmark	\checkmark	950(e)
Butyl lactate	Lactic acid, n-butyl ester	138-22-7	\checkmark	\checkmark	950(e)
Butyl stearate	Octadecanoic acid, butyl ester	123-95-5	\checkmark	\checkmark	950(e)
Calcareous shale	Calcareous shale	N/A	\checkmark	\checkmark	910
Calcite	Calcite (Ca(CO ₃))	13397-26-7	\checkmark	\checkmark	910, 930
Calcium acetate	Calcium acetate	62-54-4	\checkmark		
Calcium acetate monohydrate	Acetic acid, calcium salt, monohydrate	5743-26-0	\checkmark		

Label Display Name	Chemical Name	CAS No.	Nonfood	Food	Tolerance
			Use	Use	Exemption
					Citation 40
					CFR 180.xxx ^{/1,2}
Calcium benzoate	Benzoic acid, calcium salt	2090-05-3	\checkmark		
Calcium carbonate	Calcium carbonate	471-34-1	\checkmark	\checkmark	910, 930
Calcium citrate	Citric acid, calcium salt	7693-13-2	\checkmark	\checkmark	950(e)
Calcium octanoate	Calcium octanoate	6107-56-8	\checkmark	\checkmark	910
Calcium oxide silicate	Calcium oxide silicate (Ca ₃ $O(SiO_4)$)	12168-85-3	\checkmark		
Calcium silicate	Silicic acid calcium salt	13//_95_2	1	1	910 930
Calcium stearate	Octadecanoic acid calcium salt	1592-23-0		N /	910, 930, 940(a)
	octadecanole acid, calcium sait	1552-25-0	Ň	Ň	940(c)
Calcium sulfate	Calcium sulfate	7778-18-9	\checkmark		
Calcium sulfate dihydrate	Calcium sulfate dihydrate	10101-41-4	\checkmark		
Calcium sulfate hemihydrate	Calcium sulfate hemihydrate	10034-76-1	\checkmark		
Canary seed	Canary seed	N/A	\checkmark	\checkmark	950(b)
Carbon	Carbon	7440-44-0	\checkmark		
Carbon dioxide	Carbon dioxide	124-38-9	\checkmark	\checkmark	910, 930
Carboxymethyl cellulose	Cellulose, carboxymethyl ether	9000-11-7	\checkmark		
Cardboard	Cardboard	N/A	\checkmark	\checkmark	950(e)
Carnauba wax	Carnauba wax	8015-86-9	\checkmark	\checkmark	950(e)
Carob gum	Locust bean gum	9000-40-2	\checkmark	\checkmark	950(e)
Carrageenan	Carrageenan	9000-07-1	\checkmark	\checkmark	910, 920, 930
Caseins	Caseins	9000-71-9	\checkmark		
Castor oil	Castor oil	8001-79-4	\checkmark	\checkmark	950(e)
Castor oil, hydrogenated	Castor oil, hydrogenated	8001-78-3	\checkmark	\checkmark	950(e)
Cat food	Cat food	N/A	\checkmark		
Cellulose	Cellulose	9004-34-6	\checkmark	\checkmark	950(e)
Cellulose acetate	Cellulose acetate	9004-35-7	\checkmark	\checkmark	950(e)
Cellulose, mixture with cellulose carboxymethyl ether, sodium salt	Cellulose, mixture with cellulose carboxymethyl ether, sodium salt	51395-75-6	V	~	950(e)
Cellulose, pulp	Cellulose, pulp	65996-61-4	\checkmark	\checkmark	950(e)
Cellulose, regenerated	Cellulose, regenerated	68442-85-3	\checkmark	\checkmark	950(e)
Cheese	Cheese	N/A	\checkmark	\checkmark	950(a) or 1071
Chlorophyll a	Chlorophyll a	479-61-8	\checkmark		
Chlorophyll b	Chlorophyll b	519-62-0	\checkmark		
Citric acid	Citric acid	77-92-9	\checkmark	\checkmark	950(e)
Citric acid, monohydrate	Citric acid, monohydrate	5949-29-1	\checkmark	\checkmark	950(e)
Citrus meal	Citrus meal	N/A	\checkmark	\checkmark	950
Citrus pectin	Citrus pectin	9000-69-5	\checkmark		
Citrus pulp	Citrus pulp	68514-76-1	\checkmark	\checkmark	950(b)
Clam shells	Clam shells	N/A	\checkmark		
Cocoa	Cocoa	8002-31-1	\checkmark	\checkmark	950(a)

Label Display Name	Chemical Name	CAS No.	Nonfood	Food	Tolerance
			Use	Use	Exemption
					Citation 40
					CFR 180.xxx ^{/1,2}
Cocoa shell flour	Cocoa shell flour	N/A	\checkmark		
Cocoa shells	Cocoa shells	N/A	\checkmark	\checkmark	950(b)
Cod-liver oil	Cod-liver oil	8001-69-2	\checkmark	\checkmark	910
Coffee grounds	Coffee grounds	68916-18-7	\checkmark	\checkmark	950(e)
Cookies	Cookies	N/A	\checkmark	\checkmark	950 or 1071
Cork	Cork	61789-98-8	\checkmark		
Corn cobs	Corn cobs	N/A	\checkmark	\checkmark	950(b)
Cotton	Cotton	N/A	\checkmark		
Cottonseed meal	Cottonseed meal	68424-10-2	\checkmark		
Cracked wheat	Cracked wheat	N/A	\checkmark	\checkmark	1071
Decanoic acid, monoester	Decanoic acid, monoester with	26402-22-2	V	\checkmark	910
with 1,2,3- propanetriol	1,2,3- propanetriol		ľ	ľ	
Dextrins	Dextrins	9004-53-9	\checkmark	\checkmark	950(e)
Diglyceryl monooleate	9-Octadecenoic acid, ester with	49553-76-6	$\overline{\mathbf{V}}$, V	910
	1,2,3- propanetriol				
Diglyceryl monostearate	9-Octadecanoic acid, monoester	12694-22-3	\checkmark	\checkmark	910
	with oxybis(propanediol)				
Dilaurin	Dodecanoic acid, diester with	27638-00-2	\checkmark	\checkmark	910
	1,2,3- propanetriol				
Dipalmitin	Hexadecanoic acid, diester with	26657-95-4	\checkmark	\checkmark	910
	1,2,3- propanetriol				
Dipotassium citrate	Citric acid, dipotassium salt	3609-96-9	\checkmark	\checkmark	950(e)
Disodium citrate	Citric acid, disodium salt	144-33-2	\checkmark	\checkmark	950(e)
Disodium sulfate	Disodium sulfate decahydrate	7727-73-3	\checkmark		
Diatomaceous earth	Kieselguhr; Diatomite (less than 1% crystalline silica)	61790-53-2	\checkmark	\checkmark	910, 930, 1017
Dodecanoic acid, monoester	Dodecanoic acid, monoester with	27215-38-9	\checkmark	\checkmark	910
with 1,2,3- propanetriol	1,2,3- propanetriol				
Dolomite	Dolomite	16389-88-1	\checkmark	\checkmark	910
Douglas fir bark	Douglas fir bark	N/A	V	V	920
Egg shells	Egg shells	N/A	\checkmark		
Eggs	Eggs	N/A	\checkmark	\checkmark	1071
(+)-Ethyl lactate	Lactic acid, ethyl ester, (S)	687-47-8	\checkmark	\checkmark	950(e)
Ethyl lactate	Lactic acid, ethyl ester	97-64-3	\checkmark	\checkmark	950(e)
Feldspar	Feldspar	68476-25-5	\checkmark		
Ferric oxide	Iron oxide (Fe ₂ O ₃)	1309-37-1	\checkmark	\checkmark	910, 930
Ferrous oxide	Iron oxide (FeO)	1345-25-1	\checkmark	\checkmark	950(b)
Fish meal	Fish meal	N/A	\checkmark	\checkmark	1071
Fish oil	Fish oil	8016-13-5	\checkmark		
Fuller's earth	Fuller's earth	8031-18-3	\checkmark	\checkmark	910
Fumaric acid	Fumaric acid	110-17-8	\checkmark	\checkmark	950(e)

Label Display Name	Chemical Name	CAS No.	Nonfood	Food	Tolerance
			Use	Use	Exemption
					Citation 40
gamma-Cyclodextrin	gamma-Cyclodeytrin	17465-86-0	1	1	$CFK 180.XXX^{-3-2}$
Calatina	Calating	0000 70 8	N I	v /	950(c)
Gellan gum	Gellan gum	9000-70-8		\bigvee	950(a)
Glue	Glue (as depolymd animal	68476-37-9	V /	V 	950(0)
Cluc	collagen)	00+70-37-7	×		
Glycerin	1,2,3-Propanetriol	56-81-5	\checkmark	\checkmark	950(e)
Glycerol monooleate	9-Octadecenoic acid (Z)-, 2,3-	111-03-5	\checkmark	\checkmark	910
	dihydroxypropyl ester				
Glyceryl dicaprylate	Octanoic acid, diester with 1,2,3-	36354-80-0	\checkmark	\checkmark	910
	propanetriol				
Glyceryl dimyristate	Tetradecanoic acid, diester with	53563-63-6	\checkmark	\checkmark	910
Character dislants	1,2,5- propanetrio	25627 84 7			010
Gryceryl dioleate	y-Octadecenoic acid (92)-, diester	23037-84-7	\checkmark	\checkmark	910
Glyceryl distearate	Octadecanoic acid diester with	1323-83-7	1	/	910
	1,2,3- propanetriol	1525 05 7	Y	Ň	510
Glyceryl monomyristate	Tetradecanoic acid, monoester with	27214-38-6	\checkmark	\checkmark	910
	1,2,3-propanetriol				
Glyceryl monooctanoate	Octanoic acid, monoester with	26402-26-6	\checkmark	\checkmark	910
	1,2,3- propanetriol				
Glyceryl monooleate	9-Octadecenoic acid (9Z)-,	25496-72-4	\checkmark	\checkmark	910, 930
	monoester with 1,2,3-propanetriol				
Glyceryl monostearate	Octadecanoic acid, monoester with	31566-31-1	\checkmark	\checkmark	910, 930
	1,2,3-propanetriol				
Glyceryl stearate	Octadecanoic acid, ester with	11099-07-3	\checkmark	\checkmark	910
<u>Creative</u>	1,2,5- propanetrioi				010
Granite	Granite	N/A	V	V	910
Graphite	Graphite	7782-42-5	V V	V V	910
Guar gum	Guar gum	9000-30-0	V V	V V	950(e)
Gum Arabic	Gum arabic	9000-01-5	V V	\checkmark	910
Gum tragacanth	Gum tragacanth	9000-65-1	V V		010 020
Gypsum	Gypsum	13397-24-5	V V	\checkmark	910, 930
Hematite	Hematite (Fe ₂ O ₃)	1317-60-8	V		050(-)
Humic acid	Humic acid	1415-93-6	V V	V V	950(e) 950(-)
Hydrogenated	Hydrogenated cottonseed oil	08334-00-9 84681 71 0	V.	V V	950(c) 950(a)
Hydrogenated rapeseed	Hydrogenated rapeseed oli	84081-71-0	V .	V V	950(c) 950(c)
Hydrogenated soybean	Hydrogenated soybean oll	8016-70-4	V V	V V	950(c) 950(-)
nyuroxyetnyi cellulose	Centulose, 2-nydroxyetnyl etner	9004-62-0	V	۲ 	930(e)
Hydroxypropyl cellulose	Cellulose, 2-hydroxypropyl ether	9004-64-2	V	V	950(e)
Hydroxypropyl methyl	Cellulose, 2-hydroxypropyl methyl	9004-65-3	\checkmark	\checkmark	950(e)
cenulose	ether				

Label Display Name	Chemical Name	CAS No.	Nonfood	Food	Tolerance
			Use	Use	Exemption
					Citation 40
					CFR 180.xxx ^{/1,2}
Iron magnesium oxide	Iron magnesium oxide (Fe ₂ MgO ₄)	12068-86-9	\checkmark		
Iron oxide, hydrate	Iron oxide (Fe ₂ O ₃), hydrate	12259-21-1	\checkmark	\checkmark	910
Iron oxide	Iron oxide (Fe ₃ O ₄)	1317-61-9	\checkmark	\checkmark	910
Isopropyl alcohol	2-Propanol	67-63-0	\checkmark	\checkmark	950(e)
Isopropyl myristate	Isopropyl myristate	110-27-0	\checkmark	\checkmark	910, 930
Kaolin	Kaolin	1332-58-7	\checkmark	\checkmark	910, 930, 1180
Lactose	Lactose	63-42-3	\checkmark	\checkmark	950(a)
Lactose monohydrate	Lactose monohydrate	64044-51-5	\checkmark	\checkmark	950(a)
Lanolin	Lanolin	8006-54-0	\checkmark	\checkmark	950(e)
Latex rubber	Latex rubber	N/A	\checkmark		
Lauric acid	Lauric acid	143-07-7	\checkmark	\checkmark	950(e)
Lecithins	Lecithins	8002-43-5	\checkmark	\checkmark	950(e)
Licorice extract	Licorice extract	68916-91-6	\checkmark	\checkmark	950(e)
Lime dolomitic	Lime (chemical) dolomitic	12001-27-3	\checkmark	\checkmark	910
Limestone	Limestone	1317-65-3	\checkmark	\checkmark	910, 930
Linseed oil	Linseed oil	8001-26-1	\checkmark	\checkmark	950(c)
Magnesium carbonate	Carbonic acid, magnesium salt	546-93-0	\checkmark	\checkmark	910, 930
	(1:1)				
Magnesium benzoate	Magnesium benzoate	553-70-8	\checkmark		
Magnesium oxide	Magnesium oxide	1309-48-4	\checkmark	\checkmark	910, 940a, 940c
Magnesium oxide silicate	Magnesium oxide silicate	12207-97-5	\checkmark	\checkmark	9
Magnesium silicate	Magnesium silicate	1343-88-0	\checkmark	\checkmark	910
Magnesium silicate hydrate	Magnesium silicate hydrate	1343-90-4	\checkmark	\checkmark	910, 930
Magnesium silicon	Magnesium silicon oxide	14987-04-3	\checkmark	\checkmark	
Magnesium stearate	Octadecanoic acid, magnesium salt	557-04-0	\checkmark	\checkmark	910
Magnesium sulfate	Magnesium sulfate	7487-88-9	\checkmark	\checkmark	910
Magnesium sulfate	Magnesium sulfate heptahydrate	10034-99-8	\checkmark	\checkmark	910
heptahydrate					
Malic acid	Malic acid	6915-15-7	\checkmark		
Malt extract	Malt extract	8002-48-0	V	\checkmark	950(a)
Malt flavor	Malt flavor	N/A	V	\checkmark	950(a)
Maltodextrin	Maltodextrin	9050-36-6	V	\checkmark	950(e)
Methylcellulose	Cellulose, methyl ether	9004-67-5	V	\checkmark	950(e)
Mica	Mica	12003-38-2	V	V	910
Mica-group minerals	Mica-group minerals	12001-26-2	, V	1	
Milk	Milk	8049-98-7	, V	V	1071
Millet seed	Millet seed	N/A	V	, V	950(a)
Mineral oil	Mineral oil (U.S.P.)	8012-95-1	V	\checkmark	910, 930

Label Display Name	Chemical Name	CAS No.	Nonfood	Food	Tolerance
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1-Monolaurin	Dodecanoic acid, 2,3-	142-18-7	\checkmark	\checkmark	910
	dihydroxypropyl ester				
1-Monomyristin	Tetradecanoic acid, 2,3-	589-68-4	\checkmark	\checkmark	910
	dihydroxypropyl ester				
Monomyristin	Decanoic acid, diester with 1,2,3- propanetriol	53998-07-1	\checkmark		
Monopalmitin	Hexadecanoic acid, monoester with 1,2,3-propanetriol	26657-96-5	\checkmark	\checkmark	910
Monopotassium citrate	Citric acid, monopotassium salt	866-83-1	\checkmark	\checkmark	950(e)
Monosodium citrate	Citric acid, monosodium salt	18996-35-5	\checkmark	\checkmark	950(e)
Montmorillonite	Montmorillonite	1318-93-0	\checkmark	\checkmark	910, 930
Myristic acid	Myristic acid	544-63-8	\checkmark	\checkmark	910
Nepheline syenite	Nepheline syenite	37244-96-5	\checkmark		
Nitrogen	Nitrogen	7727-37-9	\checkmark		
Nutria meat	Nutria meat	N/A	\checkmark		
Nylon	Nylon	N/A	\checkmark		
Octanoic acid, potassium salt	Octanoic acid, potassium salt	764-71-6	\checkmark	\checkmark	910
Octanoic acid, sodium salt	Octanoic acid, sodium salt	1984-06-1	\checkmark	\checkmark	910
Oleic acid	Oleic acid	112-80-1	\checkmark	\checkmark	910, 930
Oyster shells	Oyster shells	N/A	\checkmark		
Palm oil	Palm oil	8002-75-3	\checkmark	\checkmark	950(c)
Palm oil, hydrogenated	Palm oil, hydrogenated	68514-74-9	\checkmark	\checkmark	950(c)
Palmitic acid	Hexadecanoic acid	57-10-3	\checkmark	\checkmark	910
Paper	Paper	N/A	\checkmark	\checkmark	950(e)
Paraffin wax	Paraffin wax	8002-74-2	\checkmark		
Peanut butter	Peanut butter	N/A	\checkmark	\checkmark	1071
Peanut shells	Peanut shells	N/A	\checkmark	\checkmark	950(b)
Peanuts	Peanuts	N/A	\checkmark	\checkmark	1071
Peat moss	Peat moss	N/A	\checkmark		
Pectin	Pectin	9000-69-5	\checkmark		
Perlite	Perlite	130885-09-5	\checkmark		
Perlite, expanded	Perlite, expanded	93763-70-3	\checkmark		
Plaster of paris	Plaster of paris	26499-65-0	\checkmark		
Polyethylene	Polyethylene	9002-88-4	\checkmark	\checkmark	910, 930
Polyglyceryl oleate	Polyglyceryl oleate	9007-48-1	\checkmark	\checkmark	910
Polyglyceryl stearate	Polyglyceryl stearate	9009-32-9	\checkmark	\checkmark	910, 930
Potassium acetate	Acetic acid, potassium salt	127-08-2	\checkmark		
Potassium aluminum	Potassium aluminum silicate,	1327-44-2	\checkmark	\checkmark	910
silicate, anhydrous	anhydrous				
Potassium benzoate	Benzoic acid, potassium salt	582-25-2	\checkmark		

Label Display Name	Chemical Name	CAS No.	Nonfood	Food	Tolerance
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		200.14.6			CFR 180.xxx ^{/1,2}
Potassium bicarbonate	Carbonic acid, monopotassium salt	298-14-6	\checkmark	\checkmark	950(e)
Potassium chloride	Potassium chloride	7447-40-7	\checkmark	\checkmark	950(e)
Potassium citrate	Citric acid, potassium salt	7778-49-6	\checkmark	\checkmark	950(e)
Potassium humate	Humic acids, potassium salts	68514-28-3	\checkmark	\checkmark	950(e)
Potassium myristate	Tetradecanoic acid, potassium salt	13429-27-1	\checkmark	\checkmark	910
Potassium oleate	9-Octadecenoic acid (9Z)-, potassium	143-18-0		V	910
Potassium ricinoleate	9-Octadecenoic acid, 12-hydroxy-, monopotassium salt, (9Z, 12R)-	7492-30-0	\checkmark		
Potassium sorbate	Sorbic acid, potassium salt	24634-61-5	√	\checkmark	950(e)
Potassium stearate	Octadecanoic acid, potassium salt	593-29-3	\checkmark	\checkmark	1068
Potassium sulfate	Potassium sulfate	7778-80-5	\checkmark	\checkmark	910
Potassium sulfate	Sulfuric acid, monopotassium salt	7646-93-7	\checkmark		
1,2-Propylene carbonate	1,3-Dioxolan-2-one, 4-methyl-	108-32-7	\checkmark	\checkmark	950(e)
Pumice	Pumice	1332-09-8	\checkmark		
Red cabbage color	Red cabbage color (expressed from	N/A	\checkmark	\checkmark	950(e)
	edible red cabbage heads via a				
	pressing process using only				
Red cedar chins	Red cedar chips	N/A	1		
Red dog flour	Red dog flour	N/A	N /		
Rubber	Rubber	9006-04-6	N /		
Sawdust	Sawdust	N/A	N /		
Shale	Shale	N/A	N /		
Silica amorphous fumed	Silica amorphous fumed	112945-52-5		1	950(e)
Sinca, amorphous, runed	(crystalline free)	112743-32-3			550(0)
Silica, amorphous, precipitate and gel	Silica, amorphous, precipitate and gel	7699-41-4	 	\checkmark	950(e)
Silica	Silica (crystalline free)	7631-86-9	V	\checkmark	
Silica gel	Silica gel	63231-67-4	, V	V	950(e)
Silica gel, precipitated,	Silica gel, precipitated, crystalline-	112926-00-8	, V	V	950(e)
crystalline-free	free			ľ	
Silica, hydrate	Silica, hydrate	10279-57-9	\checkmark	\checkmark	950(e)
Silica, vitreous	Silica, vitreous	60676-86-0	\checkmark	\checkmark	950(e)
Silicic acid, magnesium salt	Silicic acid (H ₂ SiO ₃), magnesium	13776-74-4	\checkmark	\checkmark	910, 930
	salt				
Soap	Soap (The water soluble sodium or	N/A	\checkmark	\checkmark	950(e)
	polassium saits of fatty acids				
	saponification of fats and oils or				
	the neutralization of fatty acid)				

Label Display Name	Chemical Name	CAS No.	Nonfood	Food	Tolerance
			Use	Use	Exemption
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Soapbark	Quillaja saponin	1393-03-9	\checkmark	\checkmark	950(e)
Soapstone	Soapstone	308076-02-0	\checkmark	\checkmark	910, 930
Sodium acetate	Acetic acid, sodium salt	127-09-3	\checkmark	\checkmark	950(e)
Sodium alginate	Sodium alginate	9005-38-3	\checkmark	\checkmark	950(e)
Sodium benzoate	Benzoic acid, sodium salt	532-32-1	\checkmark	\checkmark	950(e)
Sodium bicarbonate	Sodium bicarbonate	144-55-8	\checkmark	\checkmark	950(e)
Sodium carboxymethyl cellulose	Cellulose, carboxymethyl ether, sodium	9004-32-4	\checkmark	\checkmark	950(e)
Sodium chloride	Sodium chloride	7647-14-5	\checkmark	\checkmark	950(e)
Sodium citrate	Sodium citrate	994-36-5	\checkmark	\checkmark	950(e)
Sodium humate	Humic acids, sodium salts	68131-04-4	\checkmark	\checkmark	950(e)
Sodium oleate	Sodium oleate	143-19-1	\checkmark	\checkmark	910
Sodium ricinoleate	9-Octadecenoic acid, 12-hydroxy-, monosodium salt, (9Z,12R)-	5323-95-5	\checkmark		
Sodium stearate	Octadecanoic acid, sodium salt	822-16-2	\checkmark	\checkmark	910
Sodium sulfate	Sodium sulfate	7757-82-6	\checkmark	\checkmark	910, 930
Sorbitol	D-glucitol	50-70-4	\checkmark	\checkmark	950(e)
Soy protein	Soy protein	N/A	\checkmark		
Soya lecithins	Lecithins, soya	8030-76-0	\checkmark	\checkmark	950(e)
Soybean hulls	Soybean hulls	N/A	\checkmark	\checkmark	950(b)
Soybean meal	Soybean meal	68308-36-1	\checkmark	\checkmark	1071
Soybean, flour	Soybean, flour	68513-95-1	\checkmark	\checkmark	1071
Stearic acid	Octadecanoic acid	57-11-4	\checkmark	\checkmark	910, 930
Sulfur	Sulfur	7704-34-9	\checkmark		
Syrups, hydrolyzed starch, hydrogenated	Syrups, hydrolyzed starch, hydrogenated	68425-17-2	\checkmark	\checkmark	950(e)
Tetraglyceryl monooleate	9-Octadecenoic acid (9Z)-, monoester with tetraglycerol	71012-10-7	\checkmark		
Tricalcium citrate	Citric acid, calcium salt (2:3)	813-94-5	\checkmark	\checkmark	950(e)
Triethyl citrate	Citric acid, triethyl ester	77-93-0	\checkmark	~	950(e)
Tripotassium citrate	Citric acid, tripotassium salt	866-84-2	\checkmark	\checkmark	950(e)
Tripotassium citrate monohydrate	Citric acid, tripotassium salt, monohydrate	6100-05-6	\checkmark	~	950(e)
Trisodium citrate	Citric acid, trisodium salt	68-04-2	\checkmark	\checkmark	950(e)
Trisodium citrate dehydrate	Citric acid, trisodium salt, dehydrate	6132-04-3	\checkmark		950(e)
Trisodium citrate pentahydrate	Citric acid, trisodium salt, pentahydrate	6858-44-2	\checkmark	\checkmark	950(e)
Ultramarine blue	C.I. Pigment Blue 29	57455-37-5	\checkmark	\checkmark	950(e)

Label Display Name	Chemical Name	CAS No.	Nonfood	Food	Tolerance
			Use	Use	Exemption
					Citation 40 CED 180 $vvv^{/1,2}$
Urea	Urea	57-13-6		<u>_</u>	950(e)
Vanillin	Benzaldehyde, 4-hydroxy-3- methoxy-	121-33-5	V	~	950(e)
Vermiculite	Vermiculite	1318-00-9	\checkmark	\checkmark	910
Vinegar	Vinegar (maximum 8% acetic acid in solution)	8028-52-2	\checkmark	~	950(a)
Vitamin C	L-Ascorbic acid	50-81-7	\checkmark	\checkmark	950(e)
Vitamin E	Vitamin E	1406-18-4	\checkmark	\checkmark	910
Walnut flour	Walnut flour	N/A	\checkmark		
Walnut shells	Walnut shells	N/A	\checkmark	\checkmark	950(b)
Wheat	Wheat	N/A	\checkmark	\checkmark	1071
Wheat flour	Wheat flour	N/A	\checkmark	\checkmark	1071
Wheat germ oil	Wheat germ oil	8006-95-9	\checkmark	\checkmark	950(c)
Wheat oil	Oils, wheat	68917-73-7	\checkmark	\checkmark	1071
Whey	Whey	92129-90-3	\checkmark	\checkmark	1071
White mineral oil	White mineral oil (petroleum)	8042-47-5	\checkmark	\checkmark	910, 930
Wintergreen oil	Wintergreen oil	68917-75-9	\checkmark		
Wollastonite	Wollastonite (Ca(SiO ₃))	13983-17-0	\checkmark		
Wool	Wool	N/A	\checkmark		
Xanthan gum	Xanthan gum	11138-66-2	\checkmark	\checkmark	950(e)
Yeast	Yeast	68876-77-7	\checkmark	\checkmark	950(a)
Zeolites	Zeolites (excluding erionite (CAS Reg. No. 66733-21-9))	1318-02-1	√	~	910
Zeolites, NaA	Zeolites, NaA	68989-22-0	\checkmark		
Zinc iron oxide	Zinc iron oxide	12063-19-3	\checkmark		
Zinc oxide	Zinc oxide (ZnO)	1314-13-2	\checkmark	\checkmark	910, 930
Zinc stearate	Octadecanoic acid, zinc salt	557-05-1	\checkmark	\checkmark	920, 930

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If the tolerance exemption appears in	Then the inert ingredient may be included in a
	minimum risk product that is applied to:
40 CFR180.910	Growing crops or raw agricultural commodities after
	harvest.
40 CFR 180.920	Growing crops
40 CFR 180.930	Animals
40 CFR 180.940(a)	Food-contact surfaces in public eating places, dairy-
	processing equipment, and food-processing equipment
	and utensils
40 CFR 180.940(b)	Dairy-processing equipment, and food-processing
	equipment and utensils
40 CFR 180.940(c)	Food-processing equipment and utensils
40 CFR 180.950	Any food-use site
40 CFR 180.960	Any food-use site
40 CFR 180.1071	One of the 14 specified use patterns appropriate for
	peanuts, tree nuts, milk, soybeans, eggs, fish,
	crustacea, and wheat.

2/ This guidance does not create any binding requirements, although it refers to existing statutory and regulatory requirements and guidance. The guidance is not intended to and cannot be relied on to create rights, substantive or procedural, enforceable by any party in litigation with the United States. The producer is responsible to carefully read the criteria and make an evaluation of how the product meets (or does not meet) the criteria for the minimum risk exemption at 40 CFR 152.25(f) and tolerance and tolerance exemptions at 40 CFR 180.