UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

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).

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

Label Display Name	Chemical Name	CAS No.	Specifications	Nonfood Use	Food Use
Corn gluten meal	Corn gluten meal	66071-96-3	---	✓	✓
Corn oil	Corn oil	8001-30-7	---	✓	✓
Cornmint	Cornmint	N/A	---	✓	✓
Cornmint oil	Cornmint oil	68917-18-0	---	✓	✓
Cottonseed oil	Cottonseed oil	8001-29-4	---	✓	✓
Dried blood	Dried blood	68911-49-9	---	✓	
Eugenol	4-Allyl-2-methoxyphenol	97-53-0	---	✓	
Garlic	Garlic	N/A	---	✓	✓
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	---	✓	
Lauryl sulfate	Lauryl sulfate	151-41-7	---	✓	✓
Lemongrass oil	Lemongrass oil	8007-02-1	---	✓	
Linseed oil	Linseed oil	8001-26-1	---	✓	✓
Malic acid	2-Hydroxybutanedioic acid	6915-15-7	---	✓	
Peppermint	Peppermint	N/A	---	✓	✓
Peppermint oil	Peppermint oil	8006-90-4	---	✓	✓
2-Phenylethyl propionate	2-Phenylethyl propionate	122-70-3	---	✓	
Potassium sorbate	Potassium (2E,4E)-hexa-2,4-dienoate	24634-61-5	---	✓	✓
Putrescent whole egg solids	Putrescent whole egg solids	51609-52-0	---	✓	✓
Rosemary	Rosemary	N/A	---	✓	✓
Rosemary oil	Rosemary oil	8000-25-7	---	✓	✓
Sesame	Sesame	N/A	Includes ground sesame plant	✓	✓
Sesame oil	Sesame oil	8008-74-0	---	✓	✓
Sodium chloride	Sodium chloride	7647-14-5	---	✓	✓
Sodium lauryl sulfate	Sulfuric acid monododecyl ester, sodium salt	151-21-3	---	✓	✓
Soybean oil	Soybean oil	8001-22-7	---	✓	✓
Spearmint	Spearmint	N/A	---	✓	✓
Spearmint oil	Spearmint oil	8008-79-5	---	✓	✓
Thyme	Thyme	N/A	---	✓	✓
Thyme oil	Thyme oil	8007-46-3	---	✓	✓
White pepper	White pepper	N/A	---	✓	✓
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