



## Inert Ingredients Eligible for FIFRA 25(b) Pesticide Products Last Updated March 3, 2009

Provided below are the inert ingredients that are eligible for inclusion in pesticide products under the [Federal Insecticide, Fungicide, and Rodenticide Act \(FIFRA\)](#)'s [Section 25\(b\)](#). These minimal risk inert ingredients are referred to as "4A" under [Pesticide Registration Notice 2000-6](#).

1. Any inert ingredient described in [40 CFR 180.950](#) may be used in FIFRA Section 25(b) pesticide products applied to food use sites (e.g., food crops, animals used for food) and in FIFRA Section 25(b) pesticide products applied to nonfood use sites (e.g., ornamental plants, highway right-of-ways, rodent control).

2. In addition to (1) above, the following inert ingredients are also eligible for inclusion in FIFRA Section 25(b) pesticide products. These ingredients are listed by CAS Registry Number and Chemical Name (common names are given, with systematic names included as synonyms in brackets where applicable). In addition, this listing has two columns to indicate whether the inert ingredient can be used in FIFRA Section 25(b) products applied to food use and/or nonfood use sites.

CAS Reg. No.	Chemical Name	Food Use	Nonfood Use
9002-18-0	Agar		✓
N/A	Almond hulls		✓
N/A	Almond shells		✓
1327-36-2	Aluminatesilicate		✓
1327-43-1	Aluminum magnesium silicate [Silicic acid, aluminum magnesium salt]		✓
12736-96-8	Aluminum potassium sodium silicate [Silicic acid, aluminum potassium sodium salt]		✓
1335-30-4	Aluminum silicate		✓
1344-00-9	Aluminum sodium silicate [Silicic acid, aluminum sodium salt]	✓	✓
12003-51-9	Aluminum sodium silicate (1:1:1) [Silicic acid (H <sub>4</sub> SiO <sub>4</sub> ), aluminum sodium salt (1:1:1)]		✓

<b>CAS Reg. No.</b>	<b>Chemical Name</b>	<b>Food Use</b>	<b>Nonfood Use</b>
1863-63-4	Ammonium benzoate [Benzoic acid, ammonium salt]		✓
1002-89-7	Ammonium stearate [Octadecanoic acid, ammonium salt]		✓
N/A	Apple pomace	✓	✓
137-66-6	Ascorbyl palmitate		✓
12174-11-7	Attapulgate-type clay	✓	✓
8012-89-3	Beeswax	✓	✓
1302-78-9	Bentonite	✓	✓
85049-30-5	Bentonite, sodian		✓
68409-75-6	Bone meal		✓
N/A	Bran		✓
N/A	Bread crumbs		✓
123-95-5	Butyl stearate		✓
123-95-5	Butyl stearate [Octadecanoic acid, butyl ester]	✓	✓
N/A	Calcareous shale	✓	✓
13397-26-7	Calcite (Ca(Co3))	✓	✓
62-54-4	Calcium acetate		✓
5743-26-0	Calcium acetate monohydrate [Acetic acid, calcium salt, monohydrate]		✓
2090-05-3	Calcium benzoate [Benzoic acid, calcium salt]		✓
2090-05-3	Calcium benzoate		✓
471-34-1	Calcium carbonate	✓	✓
6107-56-8	Calcium octanoate		✓
12168-85-3	Calcium oxide silicate (Ca3O(SiO4))		✓
1344-95-2	Calcium silicate [Silicic acid, calcium salt]	✓	✓
1592-23-0	Calcium stearate [Octadecanoic acid, calcium salt]		✓
7778-18-9	Calcium sulfate		✓
10101-41-4	Calcium sulfate dehydrate		✓
10034-76-1	Calcium sulfate hemihydrate		✓
N/A	Canary seed		✓
7440-44-0	Carbon		✓
124-38-9	Carbon dioxide		✓
N/A	Cardboard		✓
8015-86-9	Carnauba wax		✓
9000-07-1	Carrageenan	✓	✓
9000-71-9	Caseins		✓
N/A	Cat food		✓
9000-11-7	Cellulose, carboxymethyl ether		✓

<b>CAS Reg. No.</b>	<b>Chemical Name</b>	<b>Food Use</b>	<b>Nonfood Use</b>
N/A	Cheese		✓
479-61-8	Chlorophyll a	✓	✓
519-62-0	Chlorophyll b	✓	✓
N/A	Citrus meal	✓	✓
9000-69-5	Citrus pectin		✓
68514-76-1	Citrus pulp	✓	✓
N/A	Clam shells		✓
8002-31-1	Cocoa	✓	✓
N/A	Cocoa shell flour		✓
N/A	Cocoa shells	✓	✓
8001-69-2	Cod-liver oil	✓	✓
N/A	Cookies		✓
61789-98-8	Cork		✓
N/A	Corn cobs	✓	✓
N/A	Cotton		✓
68424-10-2	Cottonseed meal		✓
N/A	Cracked wheat		✓
26402-22-2	Decanoic acid, monoester with 1,2,3-propanetriol	✓	✓
49553-76-6	Diglyceryl monooleate [9-Octadecenoic acid, ester with 1,2,3-propanetriol]		✓
12694-22-3	Diglyceryl monostearate [9-Octadecanoic acid, monoester with oxybis(propanediol)]		✓
27638-00-2	Dilaurin [Dodecanoic acid, diester with 1,2,3-propanetriol]	✓	✓
26657-95-4	Dipalmitin [Hexadecanoic acid, diester with 1,2,3-propanetriol]	✓	✓
7727-73-3	Disodium sulfate decahydrate		✓
27215-38-9	Dodecanoic acid, monoester with 1,2,3-propanetriol	✓	✓
16389-88-1	Dolomite	✓	✓
N/A	Douglas fir bark	✓	✓
N/A	Egg shells		✓
N/A	Eggs		✓
68476-25-5	Feldspar		✓
N/A	Fish meal		✓
8016-13-5	Fish oil (not conforming to 40 CFR 180.950)		✓
8031-18-3	Fuller's earth		✓
9000-70-8	Gelatins	✓	✓
68476-37-9	Glue (as depolymd. animal collagen)		✓
56-81-5	Glycerin	✓	✓
111-03-5	Glycerol monooleate [9-Octadecenoic acid (Z)-, 2,3-dihydroxypropyl ester]		✓
36354-80-0	Glyceryl dicaprylate [Octanoic acid, diester with 1,2,3-propanetriol]	✓	✓

<b>CAS Reg. No.</b>	<b>Chemical Name</b>	<b>Food Use</b>	<b>Nonfood Use</b>
53563-63-6	Glyceryl dimyristate [Tetradecanoic acid, diester with 1,2,3-propanetriol]	✓	✓
25637-84-7	Glyceryl dioleate [9-Octadecenoic acid (9Z)-, diester with 1,2,3-propanetriol]		✓
1323-83-7	Glyceryl distearate	✓	✓
27214-38-6	Glyceryl monomyristate [Tetradecanoic acid, monoester with 1,2,3-propanetriol]	✓	✓
26402-26-6	Glyceryl monooleate [Octanoic acid, monoester with 1,2,3-propanetriol]	✓	✓
25496-72-4	Glyceryl monooleate [9-Octadecenoic acid (9Z)-, monoester with 1,2,3-propanetriol]		✓
31566-31-1	Glyceryl monostearate [Octadecanoic acid, monoester with 1,2,3-propanetriol]	✓	✓
11099-07-3	Glyceryl stearate [Octadecanoic acid, ester with 1,2,3-propanetriol]	✓	✓
N/A	Granite	✓	✓
N/A	Grape pumice	✓	✓
7782-42-5	Graphite		✓
9000-01-5	Gum arabic	✓	✓
9000-65-1	Gum tragacanth	✓	✓
13397-24-5	Gypsum	✓	✓
1317-60-8	Hematite (Fe <sub>2</sub> O <sub>3</sub> )		✓
68334-00-9	Hydrogenated cottonseed oil		✓
84681-71-0	Hydrogenated rapeseed oil		✓
8016-70-4	Hydrogenated soybean oil	✓	✓
12068-86-9	Iron magnesium oxide (Fe <sub>2</sub> MgO <sub>4</sub> )		✓
1309-37-1	Iron oxide (Fe <sub>2</sub> O <sub>3</sub> )	✓	✓
12259-21-1	Iron oxide (Fe <sub>2</sub> O <sub>3</sub> ), hydrate		✓
1317-61-9	Iron oxide (Fe <sub>3</sub> O <sub>4</sub> )		✓
1345-25-1	Iron oxide (FeO)		✓
110-27-0	Isopropyl myristate	✓	✓
1332-58-7	Kaolin	✓	✓
61790-53-2	Kieselguhr (less than 1% crystalline silica) (Diatomaceous earth)	✓	✓
63-42-3	Lactose	✓	✓
64044-51-5	Lactose monohydrate		✓
N/A	Latex rubber		✓
143-07-7	Lauric acid	✓	✓
12001-27-3	Lime (chemical) dolomitic		✓
1317-65-3	Limestone		✓
8001-26-1	Linseed oil		✓
546-93-0	Magnesium carbonate	✓	✓

CAS Reg. No.	Chemical Name	Food Use	Nonfood Use
	[Carbonic acid, magnesium salt (1:1)]		
553-70-8	Magnesium benzoate		✓
1309-48-4	Magnesium oxide	✓	✓
12207-97-5	Magnesium oxide silicate (Mg <sub>3</sub> O(Si <sub>2</sub> O <sub>5</sub> ) <sub>2</sub> ), monohydrate	✓	✓
1343-88-0	Magnesium silicate	✓	✓
1343-90-4	Magnesium silicate hydrate	✓	✓
14987-04-3	Magnesium silicon oxide (Mg <sub>2</sub> Si <sub>3</sub> O <sub>8</sub> )		✓
557-04-0	Magnesium stearate [Octadecanoic acid, magnesium salt]	✓	✓
7487-88-9	Magnesium sulfate	✓	✓
10034-99-8	Magnesium sulfate heptahydrate	✓	✓
6915-15-7	Malic acid		✓
8002-48-0	Malt extract		✓
N/A	Malt flavor		✓
12003-38-2	Mica	✓	✓
12001-26-2	Mica-group minerals		✓
8049-98-7	Milk		✓
N/A	Millet seed		✓
8012-95-1	Mineral oil (U.S.P.)	✓	✓
142-18-7	1-Monolaurin [Dodecanoic acid, 2,3-dihydroxypropyl ester]	✓	✓
589-68-4	1-Monomyristin [Tetradecanoic acid, 2,3-dihydroxypropyl ester]	✓	✓
53998-07-1	Monomyristin [Decanoic acid, diester with 1,2,3-propanetriol]		✓
26657-96-5	Monopalmitin [Hexadecanoic acid, monoester with 1,2,3-propanetriol]	✓	✓
1318-93-0	Montmorillonite	✓	✓
544-63-8	Myristic acid	✓	✓
37244-96-5	Nepheline syenite		✓
7727-37-9	Nitrogen		✓
N/A	Nutria meat		✓
N/A	Nylon		✓
764-71-6	Octanoic acid, potassium salt		✓
1984-06-1	Octanoic acid, sodium salt		✓
8007-69-0	Oils, almond		✓
68917-73-7	Oils, wheat		✓
112-80-1	Oleic acid	✓	✓
N/A	Oyster shells		✓
8002-75-3	Palm oil	✓	✓
68514-74-9	Palm oil, hydrogenated		✓
57-10-3	Palmitic acid [Hexadecanoic acid]	✓	✓

<b>CAS Reg. No.</b>	<b>Chemical Name</b>	<b>Food Use</b>	<b>Nonfood Use</b>
8002-74-2	Paraffin wax		✓
N/A	Peanut butter		✓
N/A	Peanut shells		✓
N/A	Peanuts		✓
N/A	Peat moss		✓
9000-69-5	Pectin		✓
130885-09-5	Perlite		✓
93763-70-3	Perlite, expanded		✓
26499-65-0	Plaster of paris		✓
9002-88-4	Polyethylene	✓	✓
9007-48-1	Polyglyceryl oleate	✓	✓
9009-32-9	Polyglyceryl stearate	✓	✓
1327-44-2	Potassium aluminum silicate, anhydrous	✓	✓
582-25-2	Potassium benzoate [Benzoic acid, potassium salt]		✓
298-14-6	Potassium bicarbonate [Carbonic acid, monopotassium salt]	✓	✓
68514-28-3	Potassium humates [Humic acids, potassium salts]	✓	✓
13429-27-1	Potassium myristate [Tetradecanoic acid, potassium salt]		✓
143-18-0	Potassium oleate [9-Octadecenoic acid (9Z)-, potassium salt]	✓	✓
7492-30-0	Potassium ricinoleate [9-Octadecenoic acid, 12-hydroxy-, monopotassium salt, (9Z, 12R)-]		✓
593-29-3	Potassium stearate [Octadecanoic acid, potassium salt]	✓	✓
7778-80-5	Potassium sulfate	✓	✓
7646-93-7	Potassium sulfate [Sulfuric acid, monopotassium salt]		✓
1332-09-8	Pumice		✓
N/A	Red cedar chips		✓
N/A	Red dog flour		✓
9006-04-6	Rubber		✓
N/A	Sawdust		✓
N/A	Shale		✓
7631-86-9	Silica (crystalline free)	✓	✓
13776-74-4	Silicic acid (H <sub>2</sub> SiO <sub>3</sub> ), magnesium salt (1:1)	✓	✓
308076-02-0	Soapstone		✓
127-09-3	Sodium acetate		✓
532-32-1	Sodium benzoate [Benzoic acid, sodium salt]	✓	✓

<b>CAS Reg. No.</b>	<b>Chemical Name</b>	<b>Food Use</b>	<b>Nonfood Use</b>
144-55-8	Sodium bicarbonate	✓	✓
68131-04-4	Sodium humates [Humic acids, sodium salt]	✓	✓
143-19-1	Sodium oleate		✓
5323-95-5	Sodium ricinoleate [9-Octadecenoic acid, 12-hydroxy-, monosodium salt, (9Z,12R)-]		✓
822-16-2	Sodium stearate [Octadecanoic acid, sodium salt]	✓	✓
7757-82-6	Sodium sulfate	✓	✓
24634-61-5	Sorbic acid, potassium salt		✓
50-70-4	Sorbitol	✓	✓
N/A	Soy protein		✓
N/A	Soybean hulls		✓
68308-36-1	Soybean meal		✓
68513-95-1	Soybean, flour		✓
57-11-4	Stearic acid [Octadecanoic acid]	✓	✓
7704-34-9	Sulfur		✓
71012-10-7	Tetraglycerol monooleate [9-Octadecenoic acid (9Z)-, monoester with tetraglycerol]		✓
57-13-6	Urea	✓	✓
121-33-5	Vanillin [Benzaldehyde, 4-hydroxy-3-methoxy-]	✓	✓
1318-00-9	Vermiculite	✓	✓
8028-52-2	Vinegar (maximum 8% acetic acid in solution)	✓	✓
50-81-7	Vitamin C		✓
1406-18-4	Vitamin E	✓	✓
N/A	Walnut flour		✓
N/A	Walnut shells		✓
N/A	Wheat		✓
N/A	Wheat flour		✓
8006-95-9	Wheat germ oil		✓
92129-90-3	Whey		✓
8042-47-5	White mineral oil (petroleum)	✓	✓
68917-75-9	Wintergreen oil		✓
13983-17-0	Wollastonite (Ca(SiO <sub>3</sub> ))		✓
N/A	Wool		✓
68876-77-7	Yeast		✓
1318-02-1	Zeolites (excluding erionite (CAS Reg. No. 66733-21-9))	✓	✓
68989-22-0	Zeolites, NaA		✓
12063-19-3	Zinc iron oxide		✓
1314-13-2	Zinc oxide (ZnO)	✓	✓

<b>CAS Reg. No.</b>	<b>Chemical Name</b>	<b>Food Use</b>	<b>Nonfood Use</b>
557-05-1	Zinc stearate [Octadecanoic acid, zinc salt]	✓	✓

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