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40 CFR Ch. I (7-1-04 Edition)

Inert ingredients	Limits	Uses
Sulfurous acid		Preservative
Synthetic paraffin and its succinic derivatives conforming to 21 CFR 172.275.		Carrier, binder, and carrying agent
Synthetic petroleum wax, conforming to 21 CFR 172.888.		Binder, carrier, and coating agent
Talc		Solid diluent, carriers
Tall oil; fatty acids not less than 58%, rosin acids not more than 44%, unsaponifiables not more than 8%.		Surfactants, related adjuvants of surfactants
Tartrazine		Dye
1,1,1,2-Tetrafluoroethane, (CAS Reg. No. 811-97-2).		Aerosol propellant
Tetrahydrofurfuryl alcohol		Solvent cosolvent
α -[<i>p</i> -(1,1,3,3-Tetramethylbutyl)phenyl]- ω -hydroxypoly(oxyethylene) produced by the condensation of 1 mole of <i>p</i> -(1,1,3,3-tetramethylbutyl)phenol with a range of 1-14 or 30-70 moles of ethylene oxide; if a blend of products is used, the average range number of moles of ethylene oxide reacted to produce any product that is a component of the blend shall be in the range of 1-14 or 30-70.		Surfactants, related adjuvants of surfactants
α -[<i>p</i> -(1,1,3,3-Tetramethylbutyl) phenyl]- ω -hydroxypoly(oxyethylene) produced by the condensation of 1 mole of <i>p</i> -(1,1,3,3-tetramethylbutyl) phenol with an average of 4-14 or 30-70 moles of ethylene oxide; if a blend of products is used, the average number of moles of ethylene oxide reacted to produce any product that is a component of the blend shall be in the range of 4-14 or 30-70.		Do.
2,4,7,9-Tetramethyl-5-decyn-4, 7-diol	Not more than 2.5% of pesticide formulation.	Surfactants, related adjuvants of surfactants
Tetrasodium pyrophosphate		Anticaking agent, conditioning agent
Tricalcium phosphate		Surfactant, suspending agent, dispersing agent, anticaking agent, conditioning agent
1,1,1-Trichloroethane		Solvent, cosolvent
Trichlorofluoromethane		Propellant
Tridecylpoly(oxyethylene) acetate, sodium salt; where the ethylene oxide content averages 6-7 moles.		Surfactants, related adjuvants of surfactants
Trisodium phosphate		Surfactant, emulsifier, wetting agent
Vermiculite		Solid diluent, carrier.
Walnut shells		Leaching inhibitor, binder for water-dispersible aggregates, sticker and suspension stabilizer
Wheat, including flour, bran, and starch	Expires May 24, 2005.	Solid diluent carrier, attractant
Wheat bran		Do.
Wintergreen oil		Attractant
Wood flour	Derived from wood free of chemical preservatives.	Solid diluent and carrier
Xanthan gum-modified, produced by the reaction of xanthan gum and glyoxal (maximum 0.3% by weight).	Not more than 0.5% of pesticide formulation.	Surfactant
Xylene meeting the specifications listed in 21 CFR 172.884(b)(4).	In pesticide formulations for grain storage only.	Solvent, cosolvent
Zeolite (hydrated alkali aluminum silicate)		Solid diluent, carrier
Zinc oxide		Coating agent
Zinc sulfate (basic and monohydrate)		Do.
Zinc sulfate (basic and monohydrate)		Solid diluent, carrier

[69 FR 23117, Apr. 28, 2004, as amended at 69 FR 33578, June 16, 2004; 69 FR 34949, June 23, 2004]

§ 180.920 Inert ingredients used pre-harvest; exemptions from the requirement of a tolerance.

The following materials are exempted from the requirement of a tolerance when used in accordance with good agricultural practice as inert (or occasionally active) ingredients in pesticide

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formulations applied to growing crops only:

Inert ingredients	Limits	Uses
Acetonitrile	Not more than 0.5% of pesticide formulation.	Solvent for blended emulsifiers in all pesticides used before crop emerges from soil and in herbicides before or after crop emerges
Acetophenone		Attractant
Adenosine (CAS Reg. No. 58-61-7)	Maximum of 0.5% of formulation.	Synergist
Alder bark		Seed germination stimulator
α -Alkyl (C ₁₂ -C ₁₈)- ω -hydroxypoly(oxyethylene) copolymers with poly(oxypropylene); polyoxyethylene content averages 3-12 moles and polyoxypropylene content 2-9 moles.		Surfactants, related adjuvants of surfactants
α -Alkyl (C ₁₀ -C ₁₆)- ω -hydroxypoly(oxyethylene) mixture of dihydrogen phosphate and monohydrogen phosphate esters and the corresponding ammonium, calcium, magnesium, monoethanolamine, potassium, sodium, and zinc salts of the phosphate esters; the poly(oxyethylene) content averages 3-20 moles.		Surfactants, related adjuvants of surfactants
α -Alkyl (C ₁₂ -C ₁₅)- ω -hydroxypoly(oxyethylene) sulfosuccinate, isopropylamine and <i>N</i> -hydroxyethyl isopropylamine salts of; the poly(oxyethylene) content averages 3-12 moles.	Not more than 0.2% in the final solution.	Emulsifiers in pesticide concentrates applied with liquid fertilizer solutions before crop emerges from soil or not later than 4 weeks after planting
α -Alkyl(C ₁₀ -C ₁₂)- ω -hydroxypoly(oxyethylene) poly(oxypropylene) copolymer; poly(oxyethylene) content is 11-15 moles; poly(oxypropylene) content is 1-3 moles.		Surfactants, related adjuvants of surfactants.
α -Alkyl(C ₁₂ -C ₁₈)- ω -hydroxypoly(oxyethylene)/oxypropylene) hetero polymer in which the oxyethylene content averages 13-17 moles and the oxypropylene content averages 2-6 moles.		Do.
α -Alkyl (C ₁₀ -C ₁₆)- ω -hydroxypoly (oxyethylene)poly(oxypropylene) mixture of di- and monohydrogen phosphate esters and the corresponding ammonium, calcium, magnesium, monoethanolamine, potassium, sodium, and zinc salts of the phosphate esters; the combined poly(oxyethylene) poly(oxypropylene) content averages 3-20 moles.		Do.
α -Alkyl (C ₁₂ -C ₁₈)- ω -hydroxypoly(oxyethylene)/oxypropylene) hetero polymer in which the oxyethylene content is 8-12 moles and the oxypropylene content is 3-7 moles.		Do.
α -Alkyl (C ₁₂ -C ₁₅)- ω -hydroxypoly(oxyethylene)/oxypropylene) hetero polymer in which the oxyethylene content is 8-13 moles and the oxypropylene content is 7-30 moles.		Solvent, cosolvent, surfactant, and related adjuvants of surfactants
α -Alkyl (C ₂₁ -C ₇₁)- ω -hydroxypoly (oxyethylene) in which the poly(oxyethylene) content is 2 to 91 moles and molecular weight range from 390 to 5,000.	Not to exceed 10%	Wetting agent or granule coating
<i>n</i> -Alkyl(C ₈ -C ₁₈)amine acetate		Surfactants, related adjuvants of surfactants
Almond, bitter		Attractant
Aluminum 2-ethylhexanoate	Not more than 0.25% of pesticide formulation.	Gelling agent
Aluminum sulfate		Safener adjuvant
Amine salts of alkyl(C ₈ -C ₂₄) benzenesulfonic acid (butylamine, dimethylaminopropylamine, mono- and diisopropylamine, mono-, di-, and triethanolamine).		Surfactants, related adjuvants of surfactants
<i>N</i> -(Aminoethyl) ethanolamine salt of dodecylbenzenesulfonic acid.	For use only in liquid emulsifiable herbicide concentrates.	Do.
Ammonium nitrate (CAS Reg. No. 6484-52-2) ..		Adjuvant/ intensifier for herbicides
Ammonium polyphosphate (CAS Reg. No. 68333-79-9).		Sequestrant, buffer, or surfactant
Ammonium thiocyanate		Adjuvant/intensifier for defoliation of, and weed control in/on cotton and soybeans

Inert ingredients	Limits	Uses
Animal waste material (produced by the thermophilic digestion of cattle and poultry manure).	<i>E. coli</i> and <i>Salmonella</i> free; heavy metal content not to exceed the following: Material/Concentration (ppm): As/12.5; Cd/12.0; Cu/14.0; Pb/17.0; Hg/0.1; Se/0.2.	Carrier
Barium sulfate .....	.....	Carrier
1,2-Benzisothiazolin-3-one	Not more than 0.1% of formulation. Not more than 0.02 lb to be applied per acre.	Preservative/stabilizer
<i>N,N</i> -Bis[α -ethyl- ω -hydroxypoly(oxyethylene) alkylamine; the poly(oxyethylene) content averages 3 moles; the alkyl groups (C ₁₄ -C ₁₈) are derived from tallow, or from soybean or cottonseed oil acids.	.....	Surfactants for preemergence use with herbicides on sugarcane only
<i>N,N</i> -Bis(2-hydroxyethyl)alkylamine, where the alkyl groups (C ₈ -C ₁₈) are derived from coconut, cottonseed, soya, or tallow acids.	.....	Surfactants, related adjuvants of surfactants
<i>N,N</i> -Bis 2-(ω -hydroxypolyoxyethylene) ethyl) alkylamine; the reaction product of 1 mole <i>N,N</i> -bis(2-hydroxyethyl)alkylamine and 3-60 moles of ethylene oxide, where the alkyl group (C ₈ -C ₁₈) is derived from coconut, cottonseed, soya, or tallow acids.	.....	Do.
<i>N,N</i> -Bis-2-(ω -hydroxypolyoxyethylene/polyoxypropylene) ethyl alkylamine; the reaction product of 1 mole of <i>N,N</i> -bis(2-hydroxyethyl alkylamine) and 3-60 moles of ethylene oxide and propylene oxide, where the alkyl group (C ₈ -C ₁₈) is derived from coconut, cottonseed, soya, or tallow acids.	.....	Surfactant, related adjuvants of surfactants
Boric acid .....	.....	Sequestrant
Buffalo gourd root powder (<i>Cucurbita foetidissima</i> root powder); or, Zucchini juice (<i>Cucurbita pepo</i> juice) or Hawkesbury melon <i>Citrullus lanatus</i> ..	No more than 2.5 lbs/acre/season (3.4 gm/acre/season of Cucurbitacin).	Gustatory stimulant
Butoxytriethylene glycol phosphate .....	.....	Surfactants for arsenical herbicide formulations only
1,3-Butylene glycol dimethacrylate	Not more than 0.1% of pesticide formulation.	Stabilizer
Butyl stearate .....	.....	Defoamer
γ -Butyrolactone .....	.....	Solvent
C.I. Pigment Blue #15 (CAS Reg. No. 147-14-8; containing no more than 50 ppm polychlorinated biphenyls (PCBs)).	For seed treatment use only	Dye, coloring agent
C.I. Pigment Green #7 (CAS Reg. No. 1328-53-6; containing no more than 50 ppm polychlorinated biphenyls (PCBs)).	For seed treatment use only.	Dye, coloring agent
C.I. Pigment Violet #23 (CAS Reg. No. 6358-30-1; containing no more than 20 ppb of polychlorinated dibenzo- <i>p</i> -dioxins and/or polychlorinated dibenzofurans).	For seed treatment use only.	Dye, coloring agent
Calcium and sodium salts of certain sulfonated petroleum fractions (mahogany soaps); calcium salt molecular weight (in amu) 790-1,020, sodium salt molecular weight (in amu) 400-500.	.....	Surfactants, related adjuvants of surfactants
Camphor (CAS Reg. No. 76-22-2)	Not more than 5% weight to weight (w/w) of pesticide formulations.	Deodorant, melting point adjustment
Carous chloride	10 ppm in formulation	Tagging agent
Carrageenan, conforming to 21 CFR 172.260	Not more than 0.15% of pesticide formulation.	Thickener and stabilizer for pesticide formulations applied to seeds before planting
Chlorobenzene	Contains not more than 1% impurities. Not for use after edible parts of plant begin to form. Do not graze livestock in treated areas within 48 hours after application.	Solvent, cosolvent

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5-Chloro-2-methyl-4-isothiazolin-3-one (in combination with 2-methyl-4-isothiazolin-3-one).	Not more than 0.0022% (22.5 ppm) in the formulation; 0.00022% (or 2.25 ppm) in the final solution applied to growing crops.	Preservative
Condensation product of orthophenylphenol with 5 moles of ethylene oxide.	.....	Stabilizer.
Copper naphthenate	Not more than 2.5% of formulation; application limited to before edible portions of plants begin to form.	Mercaptan scavenger in technical pesticide
Copper salts of neodecanoic acid and 2-ethylhexanoic acid.	Not more than 1% of formulation; application limited to before edible portions of plants begin to form.	Do.
Cyclohexane .....	.....	Solvent, cosolvent
Cyclohexanol .....	.....	Do.
Cyclohexanone .....	.....	Do.
Cysteine (CAS Reg. No. 52-90-4)	Maximum of 0.5% of formulation.	Synergist
D&C Green No. 6 .....	.....	Dye
D&C Red No. 17, technical grade .....	.....	Dye
D&C Red No. 33 (CAS Reg. No. 3567-66-6); meeting the specifications listed in 21 CFR 74.1333.	.....	Dye
D&C Violet No. 2, technical grade	Not more than 0.005% of pesticide formulation.	Dye
<i>n</i> -Decyl alcohol .....	.....	Do.
Diacetone alcohol .....	.....	Deactivator, solvent for formulations used before crop emerges from soil
Diallyl phthalate	Not more than 0.1% of pesticide formulation.	Stabilizer
Diammonium phosphate (CAS Reg. No. 7783-28-0).	.....	Buffer, surfactant
α -(Di- <i>sec</i> -butyl)phenylpoly(oxypropylene) block polymer with poly(oxyethylene); the poly(oxypropylene) content averages 4 moles, the poly(oxyethylene) content averages 5 to 12 moles, the molecular.	.....	Surfactants, related adjuvants of surfactants
Diethanolamine .....	.....	Stabilizer, inhibitor for formulations used before crop emerges from soil
Diethylene glycol .....	.....	Deactivator, adjuvant for formulations used before crop emerges from soil
Diethylene glycol and diethylene glycol monobutyl, monoethyl, and monomethyl ethers.	.....	Deactivator for formulations used before crop emerges from soil, stabilizer
3,6-Dimethyl-4-octyn-3,6-diol	In pesticide formulations, for soil prior to planting or to plants before edible parts form.	Surfactants, related adjuvants of surfactants
Dimethyl sulfoxide .....	.....	Solvent or cosolvent for formulations used before crop emerges from soil or prior to formation of edible parts of food plants
Dipotassium hydrogen phosphate .....	.....	Buffering agent
Dipropylene glycol dibenzoate	For seed treatment use only.	Solvent, cosolvent
Dipropylene glycol monomethyl ether .....	.....	Stabilizer
Disodium 4-isodecyl sulfosuccinate .....	.....	Surfactants related adjuvants of surfactants.
Dodecylphenol .....	.....	Coupling agent in emulsifier
α -Dodecylphenol- ω -hydroxypoly(oxyethylene)/oxypropylene hetero polymer where ethylene oxide content is 11-13 moles and oxypropylene content is 14-16 moles, molecular weight (in amu) averages 600 to 965.	.....	Surfactants, related adjuvants of surfactants
Douglas-fir bark, ground .....	.....	Solid diluent, carrier
Dysprosium chloride	10 ppm in formulation	Tagging agent
Ethylene glycol .....	.....	Antifreeze, deactivator for all pesticides used before crop emerges from soil and in herbicides before or after crop emerges
Ethylene glycol monobutyl ether .....	.....	.....
Ethylene glycol monomethyl ether .....	.....	Solvent for formulations used before crop emerges from soil

Inert ingredients	Limits	Uses
2-Ethylhexanol		Cosolvent, defoamer, solvent for all pesticides used before crop emerges from soil and in herbicides before or after crop emerges
Ethyl methacrylate		Surfactants, related adjuvants of surfactants
Europic chloride	10 ppm in formulation	Tagging agent
FD&C Red No. 40 (CAS Reg. No. 25956-17-6)	For seed treatment use only. Not to exceed 2% by weight of the pesticide formulation.	Dye, coloring agent
Ferric chloride		Not greater than 2% of suspending, dispersing agent, pesticide formulation
Fluoroapatite		Solid diluent, carrier
Folic acid (CAS Reg. No. 59-30-3)	Maximum of 0.5% of formulation.	Synergist
Furfural byproduct (a granular steam-acid sterilized, lignocellulosic residuum in the extraction of furfural from corn cobs, sugarcane bagasse, cottonseed hulls, oat hulls, and rice hulls).		Solid diluent, carrier
Gluconic acid (and sodium salt)		Sequestrant
L-Glutamic acid (C ₅ H ₉ NO ₄ CAS Reg. No. 56-86-0).	Seed treatment use only	Plant nutrient
Glutamine (CAS Reg. No. 56-85-9)	Maximum of 0.5% of formulation.	Synergist
Glycerol—propylene oxide polymer (CAS Reg. No. 25791-96-2).		Component in water-soluble film
Glyceryl triacetate		Stabilizer
Glyceryl tris-12-hydroxystearate		Flow control agent
Graphite		Treatment aid for seeds
Hexamethylenetetramine		Stabilizer for carriers in solid pesticide formulations
2-Hydroxy-4- <i>n</i> -octoxybenzophenone (CAS Reg. No. 1843-05-6).	Not more than 0.2 pt of pesticide formulation.	Light stabilizer
Hydroxypropyl guar gum		Thickener
Isoamyl acetate	Not more than 0.5% of pesticide formulation.	Odor-masking agent
Isobornyl acetate		Solvent
Isobutyl alcohol		Do.
Isobutylene-butene copolymers	For soil application only	Binder
Isocetadecanol	Not more than 2% of pesticide formulation.	Defoaming agent
Isophorone (CAS Reg. No. 78-59-1)		Solvent, cosolvent
Isopropylbenzene		Solvent, cosolvent
Isopropylbenzenesulfonic acid and its ammonium, calcium, magnesium, potassium, sodium, and zinc salts.		Surfactants and related adjuvants of surfactants
Lanthanum chloride	10 ppm in formulation	Tagging agent.
(3-Lauramidopropyl) trimethylammonium methyl sulfate.	Not more than 2.6% in the formulation. Not to be applied within 7 days of harvest.	Antistatic agent
Linoleic diethanolamide (CAS Reg. No. 56863-02-6).		Surfactant
Magnesium nitrate (in combination with 2-methyl-4-isothiazolin-3-one and 5-chloro-2-methyl-4-isothiazolin-3-one).	None	Preservation
Maleic acid and maleic anhydride	For pesticide formulations applied to apples with a minimum preharvest interval of 21 days.	Stabilizer
Manganese carbonate		Plant nutrient
Mesityl oxide	Not for use after edible parts of plant begin to form. Do not graze livestock in treated areas within 48 hours after application.	Solvent, cosolvent
Methionine (CAS Reg. No. 59-51-8)	Maximum of 0.5% of formulation.	Synergist
Methyl alcohol		Do.
Methyl bis(2-hydroxyethyl)alkyl ammonium chloride, where the carbon chain (C ₈ -C ₁₈) is derived from coconut, cottonseed, soya, or tallow acids.		Surfactant

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α, α' -[Methylenebis]-4-(1,1,3,3-tetramethylbutyl)- <i>o</i> -phenylene bis[α -hydroxypoly(oxyethylene)] having 6-7.5 moles of ethylene oxide per hydroxyl group.	Solvent, cosolvent, surfactant, and related adjuvants of surfactants
Methylene blue .....	.....	Dye for formulations used on cotton
Methyl ethyl ketone .....	.....	Surfactant
Methyl <i>p</i> -hydroxybenzoate .....	.....	Preservative for formulations
Methyl isoamyl ketone .....	.....	Solvent, cosolvent
Methyl isobutyl ketone .....	.....	Do.
2-Methyl-4-isothiazolin-3-one (in combination with 5-chloro-2-methyl-4-isothiazolin-3-one).	Not more than 0.0022% (22.5 ppm) in the formulation; 0.00022% (or 2.25 ppm) in the final solution applied to growing crops.	Preservative
Methyl methacrylate .....	.....	Surfactants, related adjuvants of surfactants
Methylnaphthalenesulfonic acid—formaldehyde condensate, sodium salt.	.....	Dispersant
Methyl oleate .....	.....	Surfactant
2-Methyl-2,4-pentanediol .....	.....	Solvent for formulations used before crop emerges from soil
Methyl poly(oxyethylene) alkyl ammonium chloride, where the poly(oxyethylene) content is 3-15 moles and the alkyl group (C ₈ -C ₁₈) is derived from coconut, cottonseed, soya, or tallow acids.	.....	Surfactant
<i>N</i> -Methylpyrrolidone (CAS Reg. No. 872-504) ....	.....	Solvent, cosolvent
Methyl violet 2B .....	.....	Dye
Mixed phytosterols (consisting of campesterol, sitosterol and stigmasterol, with minor amounts of associated plant sterols) derived from edible vegetable oils.	.....	Surfactant.
Mono- and bis-(1 <i>H</i> , 1 <i>H</i> , 2 <i>H</i> , 2 <i>H</i> -perfluoroalkyl) phosphates where the alkyl group is even numbered and in the C ₇ -C ₁₂ range.	Not more than 0.5% of pesticide formulation.	Defoaming agent
Mono- and dialkyl (C ₈ -C ₁₈) methylated ammonium chloride compounds, where the alkyl group(s) (C ₈ -C ₁₈) are derived from coconut, cottonseed, soya, tallow, or hogfat fatty acids.	.....	Surfactants, related adjuvants of surfactants
Morpholine salt of dodecylbenzenesulfonic acid	.....	Do.
Naphthalenesulfonic acid-formaldehyde condensate, ammonium and sodium salts.	.....	Do.
Nicotinamide (CAS Reg. No. 98-92-0)	Maximum of 0.5% of formulation.	Synergist
α -(<i>p</i> -Nonylphenyl)- ω -hydroxypoly(oxyethylene); produced by the condensation of 1 mole of nonylphenol (nonyl group is a propylene trimer isomer) with an average of 4-14 or 30-100 moles of ethylene oxide; if a blend of products is used, the average number of moles of ethylene oxide reacted to produce any product that is a component of the blend shall be in the range 4-14 or 30-100.	.....	Surfactant
X-(<i>p</i> - Nonylphenyl)- ω -hydroxy-poly(oxyethylene) sulfosuccinate isopropylamine and <i>N</i> -hydroxyethyl isopropylamine salts of: the poly(oxyethylene) content averages <i>r</i> moles.	Not more than 0.2% in the final solution.	Emulsifiers in pesticide concentrates applied with liquid fertilizer solutions before crop emerges from soil or not later than 4 weeks after planting
<i>n</i> - Octyl alcohol .....	.....	Solvent, cosolvent
α -Oleoyl- ω -(oleoyloxy) poly(oxyethylene) derived from α -hydro- ω -hydroxypoly(oxyethylene) (molecular weight 600 amu).	.....	Component of defoamers
Oxo-decyl acetate (CAS reg. No. 108419-33-6)	.....	Solvent
Oxo-heptyl acetate (CAS Reg. No. 90438-79-2)	.....	Solvent
Oxo-hexyl acetate (CAS Reg. No. 88230-35-7)	.....	Solvent
Oxo-nonyl acetate (CAS Reg. No. 108419-34-7).	.....	Solvent
Oxo-octyl acetate (CAS Reg. No. 108419-32-5)	.....	Solvent
Oxo-tridecyl acetate (CAS Reg. No. 108419-35-8).	.....	Solvent
Paraformaldehyde	Not more than 2% of pesticide formulation.	Preservative for formulation
Partial sodium salt of <i>N</i> - lauryl- α -iminodipropionic acid.	Not more than 1% of pesticide formulation.	Surfactants, related adjuvants of surfactants
Phenol	Solvent, cosolvent
Phenolic resins	Soil applications	Binding agent

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Phenolsulfonic acid—formaldehyde—urea condensate and its sodium salt. (Phthalocyaninato (2)) copper; (C.I. pigment blue No. 15).	Applied to growing plants only. When used as a colorant in low-density plastic films.	Dispersant surfactant Coloring agent, pigment
Pigment red 48	For seed treatment use only.	Dye
α -Pinene	Not more than 2% of formulation by weight.	Stabilizer
Poly(methylene- <i>p</i> -nonylphenoxy)poly(oxypropylene) propanol; the poly(oxy-propylene) content averages 4-12 moles.	.....	Encapsulating agent
Poly(oxyethylene) adducts of mixed phytosterols (such sterols to consist of campesterol, stigmasterol and sitosterol with minor amounts of associated plant sterols) derived from edible vegetable oils; polyoxyethylene content averaging 5-26 moles.	.....	Surfactant, related adjuvants
Poly(oxyethylene) (5) sorbitan monooleate .....	.....	Surfactants, related adjuvants of surfactants
Polysorbate 60, conforming to 21 CFR 172.836 .....	.....	Surfactant
Potassium carbonate .....	.....	Buffering agent
Potassium dihydrogen phosphate .....	.....	Do.
Primary <i>n</i> -alkylamines, where the alkyl group (C ₈ -C ₁₈) is derived from coconut, cottonseed, soya, or tallow acids.	.....	Surfactant
Propylene dichloride .....	.....	Solvent for formulations used before crop emerges from soil
Propylene glycol monomethyl ether .....	.....	Solvent
Pyridoxine (CAS Reg. No. 65-23-6)	Maximum of 0.5% of formulation.	Synergist
Rosin, dark wood (as defined in 21 CFR 178.3870(a)(1)(v)).	.....	Surfactants, related adjuvants of surfactants
Rosin, gum .....	.....	Do.
Rosin, tall oil .....	.....	Do.
Scandium chloride	10 ppm in formulation	Tagging agent
Sodium bisulfate (CAS Reg. No. 7681-38-1) ....	.....	Acidifying/buffering agent
Sodium butyl naphthalenesulfonate .....	.....	Surfactants, related adjuvants of surfactants
Sodium caseinate	Expires May 24, 2005.	Suspending agent and binder
Sodium 1,4-dicyclohexyl sulfosuccinate .....	.....	Surfactants, related adjuvants of surfactants
Sodium 1,4-diethyl sulfosuccinate .....	.....	Do.
Sodium dihydrogen phosphate (CAS Reg. No. 7558-80-7) conforming to 21 CFR 182.6778.	.....	Buffering agent
Sodium 1,4-diisobutyl sulfosuccinate .....	.....	Surfactants, related adjuvants of surfactants
Sodium 1,4-dipentyl sulfosuccinate .....	.....	Do.
Sodium 1,4-ditridecyl sulfosuccinate .....	.....	Do.
Sodium fluoride	Not more than 0.25% of pesticide formulation.	Stabilizer carrier for formulations used before crop emerges from soil
Sodium metaborate .....	.....	Sequestrant
Sodium molybdate .....	.....	Plant nutrient
Sodium mono- and dimethyl naphthalenesulfonate; molecular weight (in amu) 245-260.	.....	Surfactants, related adjuvants of surfactants
Sodium nitrate .....	.....	Solid diluent
Sodium nitrite	Not more than 3% of pesticide formulation.	Stabilizer, inhibitor.
Sodium <i>o</i> -phenylphenate	Not more than 0.1% of pesticide formulation.	Preservative for formulation
Sodium salt of the insoluble fraction of rosin .....	.....	Surfactants, related adjuvants of surfactants
Sodium salt of partially or completely saponified dark wood rosin (as defined in 21 CFR 178.3870(a)(4)).	.....	Surfactants, related adjuvants of surfactants
Sodium tetraborate	Not more than 2% of pesticide formulation.	Buffering agent; corrosion inhibitor
Sulfosuccinic acid ester with <i>N</i> -(2-hydroxypropyl) oleamide, ammonia and isopropylamine salts of.	Not more than 0.2% in the final solution.	Emulsifiers in pesticide concentrates applied with liquid fertilizer solutions before crop emerges from soil or not later than 4 weeks after planting
Tall oil diesters with polypropylene glycol (CAS Reg. No. 68648-12-4).	.....	Component in water-soluble film
Tannin .....	.....	Dispersing agent
Tertiary butylhydroquinone .....	.....	Antioxidant
1-Tetradecanamine, <i>N,N</i> -dimethyl-, <i>N</i> -oxide (CAS Reg. No. 3332-27-2).	Component in water-soluble film

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<i>N,N,N',N'</i> -Tetrakis-(2-hydroxypropyl) ethylene-diamine.	Stabilizer for formulations used before crop emerges from soil
α -[<i>p</i> -(1,1,3,3-Tetramethylbutyl)phenyl]- ω -hydroxypoly(oxyethylene) mixture of dihydrogen phosphate and monohydrogen phosphate esters and the corresponding sodium salts of the phosphate esters; the poly(oxyethylene) content averages 6 to 10 moles.	.....	Surfactants, related adjuvants of surfactants
2,4,7,9-Tetramethyl-5-decyne 4,7-diol	In pesticide formulations, for application to soil prior to planting or to plants before edible parts form.	Do.
Tetrapotassium pyrophosphate (CAS Reg. No. 7320-345).	Not to exceed 10% of formulation.	Sequestrant, anticaking agent, conditioning agent
Tetrasodium <i>N</i> -(1,2-dicarboxyethyl)- <i>N</i> -octadecyl-sulfosuccinamate.	.....	Do.
[2,2'(2,5-Thiophenediyl) bis (5- <i>tert</i> -butylbenzoxazole)] (CAS Reg. Number 7128-64-5).	10 ppm in pesticide formulations.	Quality control agent
Titanium dioxide (CAS Reg. No. 13463-67-7) ...	.....	Pigment/coloring agent in plastic bags used to wrap growing banana (preharvest), colorant on seeds for planting
Toluene .....	.....	Solvent, cosolvent
Toluenesulfonic acid and its ammonium, calcium, magnesium, potassium, sodium, and zinc salts.	.....	Do.
Tri- <i>tert</i> -butylphenol polyglycol ether (molecular weight (in amu) 746).	.....	Surfactant for formulations used before crop emerges from soil
Triethanolamine .....	.....	Stabilizer, inhibitor for formulations used before crop emerges from soil
Triethylene glycol .....	.....	Deactivator
Triethyl phosphate .....	.....	Stabilizer for formulations used before crop emerges from soil
Trimethylolpropane (CAS Reg. No. 77-66-9)	Not more than 15% of the pesticide formulation.	Component of water-soluble film
Trimethylolpropane (CAS Reg. No. 77-99-6)	Not to exceed 15% by weight of the film.	Component in water-soluble film
α -[2,4,6-Tris[1-(phenyl)ethyl]phenyl]- ω -hydroxy poly(oxyethylene), the poly(oxyethylene) content averages 4-150 moles).	Not more than 15% of the formulation.	Surfactant.
α -[2,4,6-Tris[1-(phenyl)ethyl]phenyl]- ω -hydroxy poly(oxyethylene); mixture of monohydrogen and dihydrogen phosphate esters and the corresponding ammonium, calcium, magnesium, potassium, sodium, and zinc salts, the poly(oxyethylene) content averages 4-150 moles).	Not more than 15% of the formulation.	Do.
α -[2,4,6-Tris[1-(phenyl)ethyl]phenyl]- ω -hydroxy poly(oxyethylene) sulfate, and the corresponding ammonium, calcium, magnesium, potassium, sodium, and zinc salts, the poly(oxyethylene) content averages 4-150 moles.	Not more than 15% of the pesticide formulation.	Do.
Tryptophan (CAS Reg. No. 73-22-3)	Maximum of 0.5% of formulation.	Synergist
Valeric acid, normal	Not more than 2% in pesticide formulations.	Stenching agent or odorant
Vanillin .....	.....	Attractant
Woolwax alcohols .....	.....	Safener
Xylene .....	.....	Solvent, cosolvent
Xylenesulfonic acid its ammonium calcium, magnesium, potassium, sodium, and zinc salts.	.....	Surfactants, related adjuvants of surfactants
Yucca extract from <i>Yucca schidigera</i> .....	.....	Wetting agent
Ytterbium chloride	10 ppm in formulation	Tagging agent
Yttrium chloride	10 ppm in formulation	Tagging agent
Zinc orthophosphate .....	.....	Plant nutrient and safener
Zinc stearate, conforming to 21 CFR 182.5994 and 582.5994.	.....	Flow control agent

§ 180.930

40 CFR Ch. I (7-1-04 Edition)

[69 FR 23124, Apr. 28, 2004]

§ 180.930 Inert ingredients applied to animals; exemptions from the requirement of a tolerance.

when used in accordance with good agricultural practice as inert (or occasionally active) ingredients in pesticide formulations applied to animals:

The following materials are exempted from the requirement of a tolerance

Inert ingredients	Limits	Uses
Acetic acid (CAS Reg. No. 64-19-7)	Not more than 0.5% of pesticide formulation.	Catalyst
Acetic anhydride	Solvent, cosolvent, stabilizer
Acetyl tributyl citrate (CAS Reg. No. 77-90-7)	Component of plastic animal tags
Acetylated lanolin alcohol	Moisturizer
Alkanolic and alkenolic acids, mono- and diesters of α -hydro- ω -hydroxypoly(oxyethylene) with molecular weight (in amu) range of 200 to 6,000.	Emulsifiers
Alkyl (C ₈ -C ₂₄) benzenesulfonic acid and its ammonium, calcium, magnesium, potassium, sodium, and zinc salts.	Surfactants, emulsifier, related adjuvants of surfactants
α -Alkyl (C ₉ -C ₁₈)- ω -hydroxy poly(oxyethylene): the poly(oxyethylene) content averages 2-20 moles.	Solvent, cosolvent, surfactant, and related adjuvants of surfactants
α -Alkyl (C ₁₂ -C ₁₅)- ω -hydroxypoly(oxyethylene/oxypropylene) hetero polymer in which the oxyethylene content is 8-13 moles and the oxypropylene content is 7-30 moles.	Solvent, cosolvent, surfactant, and related adjuvants of surfactants
α -Alkyl (C ₈ -C ₁₀) hydroxypoly(oxypropylene) block polymer with polyoxyethylene; polyoxypropylene content averages 3 moles and polyoxyethylene content averages 5-12 moles.	Do.
α -Alkyl (C ₆ -C ₁₄)- ω -hydroxypoly(oxypropylene) block copolymer with polyoxyethylene; polyoxypropylene content is 1-3 moles; polyoxyethylene content is 7-9 moles; average molecular weight (in amu) approximately 635.	Surfactants, related adjuvants of surfactants
α -alkyl (C ₁₂ -C ₁₅)- ω -hydroxypoly (oxypropylene)poly (oxyethylene)copolymers (where the poly(oxypropylene) content is 3-60 moles and the poly(oxyethylene) content is 5-80 moles), the resulting ethoxylated propoxylated (C ₁₂ -C ₁₅) alcohols having a minimum molecular weight (in amu) of 1,500, CAS Reg. No. 68551-13-3.	Not to exceed 20% of pesticide formulations	Surfactant
α -(<i>p</i> - Alkylphenyl)- ω -hydroxypoly (oxyethylene) produced by the condensation of 1 mole of alkylphenol (alkyl is a mixture of propylene tetramer and pentamer isomers and averages C ₁₃) with 6 moles of ethylene oxide.	Do.
Alkyl (C ₈ -C ₁₈) sulfate and its ammonium, calcium, magnesium, potassium, sodium, and zinc salts.	Do.
Amine salts of alkyl (C ₈ -C ₂₄) benzenesulfonic acid (butylamine; dimethylamino propylamine; mono- and diisopropyl- amine; and mono-, di-, and triethanolamine).	Do.
Ascorbyl palmitate	Preservative
Attapulgate-type clay	Solid diluent, carrier
Barium sulfate (CAS Reg. No. 7727-43-7)	Carrier, density control agent
Benzoic acid	Preservative for formulations
Butane	Propellant
<i>n</i> -Butanol (CAS Reg. No. 71-36-3)	Solvent for blended emulsifiers
Butylated hydroxyanisole	Antioxidant
Butylated hydroxytoluene	Do.