

Environmental Protection Agency

§ 180.920

§ 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 formulations applied to growing crops only:

Inert ingredients	Limits	Uses
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
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
Barium sulfate .....	.....	Carrier

Inert ingredients	Limits	Uses
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
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
Camphor (CAS Reg. No. 76-22-2)	Not more than 5% weight to weight (w/w) of pesticide formulations.	Deodorant, melting point adjustment
Carbonic acid, dipotassium salt (CAS Reg. No. 584-08-7).	.....	Buffering agent
Carbonic acid, dipotassium salt, trihydrate (CAS Reg. No. 18662-52-7).	.....	Buffering agent
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
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
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
Cyclohexane .....	.....	Solvent, cosolvent
Cyclohexanol .....	.....	Do.
Cyclohexanone .....	.....	Do.

Environmental Protection Agency

§ 180.920

Inert ingredients	Limits	Uses
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
Decanamide, N,N-dimethyl (CAS Reg. No. 14433-76-2).		Emulsifier, solvent, cosolvent
<i>n</i> -Decyl alcohol		Dye
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 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		
2-Ethylhexanol		Cosolvent, defoamer, solvent for all pesticides used before crop emerges from soil and in herbicides before or after crop emerges
Europic chloride	10 ppm in formulation	Tagging agent
FD&C Blue No. 1, methyl-polyethylene glycol derivative (CAS Reg. No. 9079-34-9).	For seed treatment use only; Number average molecular weight (in amu) is greater than 1,000; Not to exceed 5% of the formulated pesticide product.	Dye, coloring agent
FD&C Blue No. 1, polyethylene glycol derivative (CAS Reg. No. 9079-33-8).	For seed treatment use only; Number average molecular weight (in amu) is greater than 1,000; Not to exceed 5% of the formulated pesticide product.	Dye, coloring 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
Gluconic acid (and sodium salt)		Sequestrant

Inert ingredients	Limits	Uses
L-Glutamic acid (C ₅ H ₉ NO ₄ ± CAS Reg. No. 56–86–0).	Seed treatment use only	Plant nutrient
[alpha]-D-glucopyranoside, 2-ethylhexyl 6-O-[alpha]-D-glucopyranosyl- (CAS Reg. No. 330980–61–5).	.....	Surfactant
[alpha]-D-glucopyranoside, 2-ethylhexyl (CAS Reg. No. 125590–73–0).	.....	Surfactant
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
Isobornyl acetate .....	.....	Solvent
Isobutyl alcohol .....	.....	Do.
Isobutylene-butene copolymers	For soil application only	Binder
Isooctadecanol	Not more than 2% of pesticide formulation.	Defoaming agent
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
α,α'-[Methylenebis]-4-(1,1,3,3-tetramethylbutyl)- <i>o</i> -phenylene bis[ω-hydroxypoly(oxyethylene)] having 6-7.5 moles of ethylene oxide per hydroxyl group.	.....	Solvent, cosolvent, surfactant, and related adjuvants of surfactants
Methyl ethyl ketone .....	.....	Surfactant
Methyl <i>p</i> -hydroxybenzoate .....	.....	Preservative for formulations
Methyl isobutyl ketone .....	.....	Solvent, cosolvent
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
Methylnaphthalenesulfonic acid—formaldehyde condensate, sodium salt.	.....	Dispersant
Methyl oleate .....	.....	Surfactant
2-Methyl-2,4-pentanediol .....	.....	Solvent for formulations used before crop emerges from soil

Environmental Protection Agency

§ 180.920

Inert ingredients	Limits	Uses
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
N-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 ₆ -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
Octanamide, N,N-dimethyl (CAS Reg. No. 1118-92-9).	.....	Emulsifier, solvent, cosolvent
<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
Partial sodium salt of <i>N</i> -lauryl-α-aminodipropionic acid.	Not more than 1% of pesticide formulation.	Surfactants, related adjuvants of surfactants
Phenol .....	.....	Solvent, cosolvent
Phenolsulfonic acid—formaldehyde—urea condensate and its sodium salt.	Applied to growing plants only.	Dispersant surfactant
(Phthalocyaninato (2)) copper; (C.I. pigment blue No. 15).	When used as a colorant in low-density plastic films.	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 dihydrogen phosphate .....	.....	Buffering agent
Primary <i>n</i> -alkylamines, where the alkyl group (C ₈ -C ₁₈) is derived from coconut, cottonseed, soya, or tallow acids.	.....	Surfactant

Inert ingredients	Limits	Uses
2-Propanamine, compound with α -phosphono- ω -butoxypoly (oxy-1,2-ethanediyl) (2:1) (CAS Reg. No. 431040-31-2).	Not more than 15% in the formulated product.	Surfactant
2-Propanamine, compounds with polyethylene glycol dihydrogen phosphate C ₈₋₁₀ alkyl ether (2:1) (CAS Reg. No. 431062-72-5).	Not more than 15% in the formulated product.	Surfactant
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 1,4-dicyclohexyl sulfosuccinate .....	.....	Surfactants, related adjuvants of surfactants
Sodium 1,4-dihexyl 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 metaborate .....	.....	Sequestrant
Sodium molybdate .....	.....	Plant nutrient
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 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
<i>N,N,N,N'</i> -Tetrakis-(2-hydroxypropyl) ethylenediamine.	.....	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
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
Toluenesulfonic acid and its ammonium, calcium, magnesium, potassium, sodium, and zinc salts.	.....	Solvent, cosolvent
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. 77-99-6)	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.

Environmental Protection Agency

§ 180.920

Inert ingredients	Limits	Uses
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
Xylene .....	.....	Solvent, cosolvent
Xylenesulfonic acid its ammonium calcium, magnesium, potassium, sodium, and zinc salts. ....	.....	Surfactants, related adjuvants of surfactants
Yucca extract from Yucca schidigera .....	.....	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

[69 FR 23124, Apr. 28, 2004, as amended at 70 FR 7900, Feb. 16, 2005; 70 FR 31369, June 1, 2005; 70 FR 41619, July 20, 2005; 70 FR 54280, Sept. 14, 2005; 70 FR 55296, Sept. 21, 2005; 70 FR 55733, Sept. 23, 2005; 71 FR 14415, Mar. 22, 2006; 71 FR 18642, Apr. 12, 2006; 71 FR 30811, May 31, 2006; 71 FR 43667, Aug. 2, 2006; 71 FR 45408, 45421, Aug. 9, 2006]

EFFECTIVE DATE NOTE 1: At 71 FR 45411, Aug. 9, 2006, in § 180.920 the table was amended by revising the following inert ingredient, effective Feb. 9, 2008. For the convenience of the user, the revised text is set forth as follows:

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

Inert ingredients	Limits	Uses
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 ₆ -C ₁₂ range.	Not more than 0.5% of pesticide formulation. Expires February 9, 2008.	Surfactant, related adjuvants of surfactants

EFFECTIVE DATE NOTE 2: At 71 FR 45421, Aug. 9, 2006, in § 180.920 the table was amended by removing the following entries, effective Aug. 9, 2008.

- a. α -Alkyl (C₁₂-C₁₈)- ω -hydroxypoly(oxyethylene) copolymers with poly(oxypropylene); polyoxyethylene content averages 3-12 moles and polyoxypropylene content 2-9 moles.
- b. α -Alkyl (C₁₀-C₁₆)- 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.
- c. α -Alkyl (C₁₂-C₁₅)- ω -hydroxypoly(oxyethylene) sulfosuccinate, isopropylamine and *N*-hydroxyethyl isopropylamine salts of; the poly(oxyethylene) content averages 3-12 moles.
- d. α -Alkyl(C₁₀₋₁₂)- ω -hydroxypoly(oxyethylene) poly(oxypropylene) copolymer; poly(oxyethylene) content is 11-15 moles; poly(oxypropylene) content is 1-3 moles.
- e. α -Alkyl(C₁₂-C₁₈)- ω -hydroxypoly (oxyethylene/oxypropylene) hetero polymer in which the oxyethylene content averages 13-17 moles and the oxypropylene content averages 2-6 moles.
- f. α -Alkyl (C₁₀-C₁₆)- 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.
- g. α -Alkyl (C₁₂-C₁₈)- ω -hydroxypoly(oxyethylene/oxypropylene) hetero polymer in which the oxyethylene content is 8-12 moles and the oxypropylene content is 3-7 moles.