

Environmental Protection Agency

§ 180.910

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

Residues of 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 or to raw agricultural commodities after harvest:

TABLE 1 TO 180.910

Inert ingredients	Limits	Uses
Acetic acid .....	.....	Catalyst
Acetic anhydride .....	.....	Solvent, cosolvent
Acetone .....	.....	Do.
Alcohols, C ₂₋₃₃ , manuf. of, by-products from, overheads (CAS Reg. No. 876065-86-0).	.....	Solvent
Alkanoic and alkenoic 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, related adjuvants of surfactants
C ₁₀ -C ₁₈ -Alkyl dimethyl amine oxides (CAS Reg. Nos. 1643-20-5, 2571-88-2, 2605-79-0, 3332-27-2, 61788-90-7, 68955-55-5, 70592-80-2, 7128-91-8, 85408-48-6, and 85408-49-7).	15% by weight in pesticide formulation.	Surfactant
α -alkyl(C ₆ -C ₁₅)- ω -hydroxypoly(oxyethylene)sulfate, and its ammonium, calcium, magnesium, potassium, sodium, and zinc salts, poly(oxyethylene) content averages 2-4 moles (CAS Reg. Nos.: 3088-31-1, 3694-74-4, 9004-82-4, 9004-84-6, 9021-91-4, 9086-52-6, 13150-00-0, 15826-16-1, 25446-78-0, 26183-44-8, 27140-00-7, 27731-62-0, 32612-48-9, 34431-25-9, 35015-74-8, 50602-06-7, 52286-18-7, 52286-19-8, 54116-08-4, 55901-67-2, 61702-79-2, 61894-66-4, 62755-21-9, 63428-85-3, 63428-86-4, 63428-87-5, 65086-57-9, 65086-79-5, 65104-74-7, 65122-38-5, 67674-66-2, 67762-19-0, 67762-21-4, 67845-82-3, 67845-83-4, 67923-90-4, 68037-05-8, 68037-06-9, 68171-41-5, 68424-50-0, 68511-39-7, 68585-34-2, 68610-66-2, 68611-29-0, 68611-55-2, 68649-53-6, 68890-88-0, 68891-29-2, 68891-30-5, 68891-38-3, 69011-37-6, 73665-22-2, 75422-21-8, 78330-16-2, 78330-17-3, 78330-25-3, 78330-26-4, 78330-27-5, 78330-28-6, 78330-29-7, 78330-30-0, 96130-61-9, 106597-03-9, 110392-50-2, 119432-41-6, 125301-88-4, 125301-89-5, 125301-92-0, 125736-54-1, 157627-92-4, 157707-85-2, 160104-51-8, 160901-27-9, 160901-28-0, 160901-29-1, 160901-30-4, 161025-28-1, 161074-79-9, 162063-19-6, 219756-63-5).	Not to exceed 30% of formulation.	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).	Not more than 20% of pesticide formulations.	Surfactant

TABLE 1 TO 180.910—Continued

Inert ingredients	Limits	Uses
α-Alkyl-ω-hydroxypoly (oxypropylene) and/or poly (oxyethylene) polymers where the alkyl chain contains a minimum of six carbons (CAS Reg. Nos.: 9002–92–0; 9004–95–9; 9004–98–2; 9005–00–9; 9035–85–2; 9038–29–3; 9038–43–1; 9040–05–5; 9043–30–5; 9087–53–0; 25190–05–0; 24938–91–8; 25231–21–4; 251553–55–6; 26183–52–8; 26468–86–0; 26636–39–5; 26636–40–8; 27252–75–1; 27306–79–2; 31726–34–8; 32128–65–7; 34398–01–1; 34398–05–5; 37251–67–5; 37311–00–5; 37311–01–6; 37311–02–7; 37311–04–9; 39587–22–9; 50861–66–0; 52232–09–4; 52292–17–8; 52609–19–5; 57679–21–7; 59112–62–8; 60636–37–5; 60828–78–6; 61702–78–1; 61723–78–2; 61725–89–1; 61791–13–7; 61791–20–6; 61791–28–4; 61804–34–0; 61827–42–7; 61827–84–7; 62648–50–4; 63303–01–5; 63658–45–7; 63793–60–2; 64366–70–7; 64415–24–3; 64415–25–4; 64425–86–1; 65104–72–5; 65150–81–4; 66455–14–9; 66455–15–0; 67254–71–1; 67763–08–0; 68002–96–0; 68002–97–1; 68131–39–5; 68131–40–8; 68154–96–1; 68154–97–2; 68154–98–3; 68155–01–1; 68213–23–0; 68213–24–1; 68238–81–3; 68238–82–4; 68409–58–5; 68409–59–6; 68439–30–5; 68439–45–2; 68439–46–3; 68439–48–5; 68439–49–6; 68439–50–9; 68439–51–0; 68439–53–2; 68439–54–3; 68458–88–8; 68526–94–3; 68526–95–4; 68551–12–2; 68551–13–3; 68551–14–4; 68603–20–3; 68603–25–8; 68920–66–1; 68920–69–4; 68937–66–6; 68951–67–7; 68954–94–9; 68987–81–5; 68991–48–0; 69011–36–5; 69013–18–9; 69013–19–0; 69227–20–9; 69227–21–0; 69227–22–1; 69364–63–2; 70750–27–5; 70879–83–3; 70955–07–6; 71011–10–4; 71060–57–6; 71243–46–4; 72066–65–0; 72108–90–8; 72484–69–6; 72854–13–8; 72905–87–4; 73018–31–2; 73049–34–0; 74432–13–6; 74499–34–6; 78330–19–5; 78330–20–8; 78330–21–9; 78330–23–1; 79771–03–2; 84133–50–6; 85422–93–1; 97043–91–9; 97953–22–5; 102782–43–4; 103331–86–8; 103657–84–7; 103657–85–8; 103818–93–5; 103819–03–0; 106232–83–1; 111905–54–5; 116810–31–2; 116810–32–3; 116810–33–4; 120313–48–6; 120944–68–5; 121617–09–2; 126646–02–4; 126950–62–7; 127036–24–2; 139626–71–4; 152231–44–2; 154518–36–2; 157627–86–6; 157627–88–8; 157707–41–0; 157707–43–2; 159653–49–3; 160875–66–1; 160901–20–2; 160901–09–7; 160901–19–9; 161025–21–4; 161025–22–5; 161133–70–6; 166736–08–9; 169107–21–5; 172588–43–1; 176022–76–7; 196823–11–7; 287935–46–0; 288260–45–7; 303176–75–2; 954108–36–2; 2222805–23–2; 2409830–33–5).		Surfactants, related adjuvants of surfactants

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TABLE 1 TO 180.910—Continued

Inert ingredients	Limits	Uses
α-alkyl (minimum C₆ linear, branched, saturated and/or unsaturated)-ω-hydroxypolyoxyethylene polymer with or without polyoxypropylene, mixture of di- and monohydrogen phosphate esters and the corresponding ammonium, calcium, magnesium, monoethanolamine, potassium, sodium, and zinc salts of the phosphate esters; minimum oxyethylene content is 2 moles; minimum oxypropylene content is 0 moles (CAS Reg. Nos.: 9004-80-2, 9046-01-9, 26982-05-8, 31800-89-2, 37280-82-3, 37281-86-0, 39341-09-8, 39341-65-6, 39464-66-9, 39464-69-2, 42612-52-2, 50643-20-4, 50668-50-3, 51325-10-1, 51884-64-1, 52019-36-0, 57486-09-6, 58206-38-5, 58318-92-6, 58857-49-1, 59112-71-9, 60267-55-2, 61837-79-4, 62362-49-6, 62482-61-5, 63747-86-4, 63887-54-7, 63887-55-8, 66020-37-9, 66272-25-1, 66281-20-7, 67711-84-6, 67786-06-5, 67989-06-4, 68070-99-5, 68071-17-0, 68071-35-2, 68071-37-4, 68130-44-9, 68130-45-0, 68130-46-1, 68130-47-2, 68186-29-8, 68186-34-5, 68186-36-7, 68186-37-8, 68238-84-6, 68311-02-4, 68311-04-6, 68332-75-2, 68389-72-0, 68400-75-9, 68413-78-5, 68425-73-0, 68425-75-2, 68439-39-4, 68458-48-0, 68511-15-9, 68511-36-4, 68511-37-5, 68551-05-3, 68585-15-9, 68585-16-0, 68585-17-1, 68585-36-4, 68585-39-7, 68603-24-7, 68607-14-7, 68610-64-0, 68610-65-1, 68649-29-6, 68649-30-9, 68650-84-0, 68815-11-2, 68855-46-9, 68856-03-1, 68890-90-4, 68890-91-5, 68891-12-3, 68891-13-4, 68891-26-9, 68908-64-5, 68909-65-9, 68909-67-1, 68909-69-3, 68921-24-4, 68921-60-8, 68954-87-0, 68954-88-1, 68954-92-7, 68987-35-9, 69029-43-2, 69980-69-4, 70247-99-3, 70248-14-5, 70844-96-1, 70903-63-8, 71965-23-6, 71965-24-7, 72480-27-4, 72623-67-7, 72623-68-8, 72828-56-9, 72828-57-0, 73018-34-5, 73038-25-2, 73050-08-5, 73050-09-6, 73361-29-2, 73378-71-9, 73378-72-0, 73559-42-9, 73559-43-0, 73559-44-1, 73559-45-2, 74499-76-6, 76930-25-1, 78041-18-6, 78330-22-0, 78330-24-2, 82465-25-6, 84843-37-8, 91254-26-1, 93925-54-3, 95014-34-9, 96416-89-6, 99924-51-3, 103170-31-6, 103170-32-7, 106233-09-4, 106233-10-7, 108818-88-8, 110392-49-9, 111798-26-6, 111905-50-1, 116671-23-9, 117584-36-8, 119415-05-3, 120913-45-3, 121158-61-0, 121158-63-2, 123339-53-7, 125139-13-1, 125301-86-2, 125301-87-3, 126646-03-5, 129208-04-4, 129870-77-5, 129870-80-0, 130354-37-9, 136504-88-6, 143372-50-3, 143372-51-4, 144336-75-4, 146815-57-8, 151688-56-1, 154518-39-5, 154518-40-8, 155240-11-2, 157627-92-4, 159704-69-5, 160498-49-7, 160611-24-5, 171543-66-1, 172027-16-6, 172274-69-0, 176707-42-9, 181963-82-6, 188741-55-1, 191940-53-1, 210493-60-0, 210993-53-6, 246159-55-7, 251298-11-0, 261627-68-3, 290348-69-5, 290348-70-8, 317833-96-8, 340681-28-9, 422563-19-7, 422563-26-6, 522613-09-8, 717140-06-2, 717140-09-5, 717827-29-7, 762245-80-7, 762245-81-8, 866538-89-8, 866538-90-1, 873662-29-4, 913068-96-9, 936100-29-7, 936100-30-0, 1072943-56-6, 1087209-87-7, 1174313-54-2, 1187742-89-7, 1187743-35-6, 1205632-03-6, 1233235-49-8, 1451002-50-8, 1456802-88-2, 1456802-89-3, 1456803-12-5).		

TABLE 1 TO 180.910—Continued

Inert ingredients	Limits	Uses
α-alkyl (minimum C₆ linear, branched, saturated and/or unsaturated)-ωhydroxypolyoxyethylene polymer with or without polyoxypropylene, mixture of di- and monohydrogen phosphate esters and the corresponding ammonium, calcium, magnesium, monoethanolamine, potassium, sodium, and zinc salts of the phosphate esters; minimum oxyethylene content is 2 moles; minimum oxypropylene content is 0 moles (CAS Reg. Nos.: 9004–80–2, 9046–01–9, 26982–05–8, 31800–89–2, 37280–82–3, 37281–86–0, 39341–09–8, 39341–65–6, 39464–66–9, 39464–69–2, 42612–52–2, 50643–20–4, 50668–50–3, 51325–10–1, 51884–64–1, 52019–36–0, 57486–09–6, 58206–38–5, 58318–92–6, 58857–49–1, 59112–71–9, 60267–55–2, 61837–79–4, 62362–49–6, 62482–61–5, 63747–86–4, 63887–54–7, 63887–55–8, 66020–37–9, 66272–25–1, 66281–20–7, 67711–84–6, 67786–06–5, 67989–06–4, 68070–99–5, 68071–17–0, 68071–35–2, 68071–37–4, 68130–44–9, 68130–45–0, 68130–46–1, 68130–47–2, 68186–29–8, 68186–34–5, 68186–36–7, 68186–37–8, 68238–84–6, 68311–02–4, 68311–04–6, 68332–75–2, 68389–72–0, 68400–75–9, 68413–78–5, 68425–73–0, 68425–75–2, 68439–39–4, 68458–48–0, 68511–15–9, 68511–36–4, 68511–37–5, 68551–05–3, 68585–15–9, 68585–16–0, 68585–17–1, 68585–36–4, 68585–39–7, 68603–24–7, 68607–14–7, 68610–64–0, 68610–65–1, 68649–29–6, 68649–30–9, 68650–84–0, 68815–11–2, 68855–46–9, 68856–03–1, 68890–90–4, 68890–91–5, 68891–12–3, 68891–13–4, 68891–26–9, 68908–64–5, 68909–65–9, 68909–67–1, 68909–69–3, 68921–24–4, 68921–60–8, 68954–87–0, 68954–88–1, 68954–92–7, 68987–35–9, 69029–43–2, 69980–69–4, 70247–99–3, 70248–14–5, 70844–96–1, 70903–63–8, 71965–23–6, 71965–24–7, 72480–27–4, 72623–67–7, 72623–68–8, 72828–56–9, 72828–57–0, 73018–34–5, 73038–25–2, 73050–08–5, 73050–09–6, 73361–29–2, 73378–71–9, 73378–72–0, 73559–42–9, 73559–43–0, 73559–44–1, 73559–45–2, 74499–76–6, 76930–25–1, 78041–18–6, 78330–22–0, 78330–24–2, 82465–25–6, 84843–37–8, 91254–26–1, 93925–54–3, 95014–34–9, 96416–89–6, 99924–51–3, 103170–31–6, 103170–32–7, 106233–09–4, 106233–10–7, 108818–88–8, 110392–49–9, 111798–26–6, 111905–50–1, 116671–23–9, 117584–36–8, 119415–05–3, 120913–45–3, 121158–61–0, 121158–63–2, 123339–53–7, 125139–13–1, 125301–86–2, 125301–87–3, 126646–03–5, 129208–04–4, 129870–77–5, 129870–80–0, 130354–37–9, 136504–88–6, 143372–50–3, 143372–51–4, 144336–75–4, 146815–57–8, 151688–56–1, 154518–39–5, 154518–40–8, 155240–11–2, 157627–92–4, 159704–69–5, 160498–49–7, 160611–24–5, 171543–66–1, 172027–16–6, 172274–69–0, 176707–42–9, 181963–82–6, 188741–55–1, 191940–53–1, 210493–60–0, 210993–53–6, 2275654–37–8, 246159–55–7, 251298–11–0, 261627–68–3, 290348–69–5, 290348–70–8, 317833–96–8, 340681–28–9, 422563–19–7, 422563–26–6, 522613–09–8, 717140–06–2, 717140–09–5, 717827–29–7, 762245–80–7, 762245–81–8, 866538–89–8, 866538–90–1, 873662–29–4, 913068–96–9, 936100–29–7, 936100–30–0, 1072943–56–6, 1087209–87–7, 1174313–54–2, 1187742–89–7, 1187743–35–6, 1205632–03–6, 1233235–49–8, 1451002–50–8, 1456802–88–2, 1456802–89–3, 1456803–12–5). N-alkyl (C₈-C₁₈) primary amines and their acetate salts where the alkyl group is linear and may be saturated and/or unsaturated (CAS Reg. Nos. 61790–57–6, 61790–58–7, 61790–59–8, 61790–60–1, 61788–46–3, 61790–33–8, 68155–38–4). Alkyl (C₈-C₁₈) sulfate and its ammonium, calcium, isopropylamine, magnesium, potassium, sodium, and zinc salts. Aluminum hydroxide Aluminum oxide Aluminum stearate Amides, C₃-C₉, N-[3-(dimethylamino) propyl] (CAS Reg. No. 1044764–00–2). Amides, C₆-C₁₂, N-[3-(dimethylamino) propyl] (CAS Reg. No. 1044764–06–8). Ammonium bicarbonate	Not to exceed 30% by weight in pesticide formulations. Concentration in formulated end-use products not to exceed 10% by weight in herbicide products, 4% by weight in insecticide products, and 4% by weight in fungicide products. 	Surfactants, related adjuvants of surfactants. Surfactants, related adjuvants of surfactants Surfactants. Diluent, carrier Diluent Surfactant Surfactant Surfactant Surfactant, suspending agent, dispersing agent

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TABLE 1 TO 180.910—Continued

Inert ingredients	Limits	Uses
Ammonium carbamate		Synergist in aluminum phosphide formulations
Ammonium chloride		Intensifier when used with ammonium nitrate as a desiccant or defoliant. Fire suppressant in aluminum phosphide and magnesium phosphide formulations
Ammonium hydroxide		Solvent, cosolvent, neutralizer, solubilizing agent
Ammonium persulfate (CAS Reg.No. 7727-54-0)	0.05%	Preservative
Ammonium salts of fatty acids (C ₈ -C ₁₈ saturated) (CAS Reg. No. 5972-76-9, 63718-65-0, 16530-70-4, 32582-95-9, 2437-23-2, 191799-95-8, 16530-71-5, 93917-76-1, 5297-93-8, 94266-36-1, 1002-89-7).		Surfactant
Ammonium stearate		Surfactant
Ammonium sulfate		Solid diluent, carrier
Ammonium thiosulfate		Intensifier when used with ammonium nitrate as desiccant or defoliant
Amyl acetate		Solvent, cosolvent, attractant
Ascorbyl palmitate		Preservative
Attapulgate-type clay		Solid diluent, carrier, thickener
<i>Bacillus simplex</i> strain BU288		Emulsifier
<i>Bacillus thuringiensis</i> fermentation solids and/or solubles		Diluent, carrier
Bentonite		Solid diluent, carrier
Benzoic acid		Preservative for formulation
Benzyl alcohol (CAS Reg. No. 100-51-6)	60% by weight in pesticide formulation.	Adjuvant
Bicyclo[3.1.1]hept-2-ene, 2,6,6-trimethyl-, homopolymer (Alpha-pinene, homopolymer)(CAS Reg. No. 25766-18-1).		Surfactants, related adjuvants of surfactants
Bicyclo[3.1.1]heptane, 6,6-dimethyl-2-methylene-, homopolymer (Beta-pinene, homopolymer) (CAS Reg. No. 25719-60-2).		Surfactants, related adjuvants of surfactants
Bicyclo[3.1.1]hept-2-ene, 2,6,6-trimethyl-, polymer with 6,6-dimethyl-2-methylenebicyclo [3.1.1] heptane (Copolymer of alpha- and beta-pinene) (CAS Reg. No. 31393-98-3).		Surfactants, related adjuvants of surfactants
2-Bromo-2-nitro-1,3-propanediol (CAS Reg. No. 52-51-7)	0.04% or less by weight of the total pesticide formulation.	In-can preservative
Butane		Propellant
Butanedioic acid, 2-sulfo-, C-C9-11-isoalkyl esters, C10-rich, disodium salts (CAS Reg. No. 815583-91-6).	Not to exceed 10% by weight in pesticide formulation for agricultural use.	Surfactant
<i>n</i> -Butanol (CAS Reg. No. 71-36-3)		Solvent, cosolvent
Butoxypolypropylene glycol (CAS Reg. No. 9003-13-8).		Solvent
<i>n</i> -Butyl benzoate (CAS Reg. No.136-60-7)		Plasticizer in pesticide formulations for varroa mite control around bee hives
di- <i>n</i> -Butyl adipate (CAS Reg. No. 105-99-7)	Not to exceed 25% by weight of pesticide formulation.	Solvent
<i>n</i> -Butyl-3-hydroxybutyrate (CAS Reg. No. 53605-94-0)		Antioxidant
Butylated hydroxyanisole		Do.
Butylated hydroxytoluene		Do.
Calcareous shale		Solid diluent carrier
Calcite		Do.
Calcium carbonate		Do.
Calcium chloride		Stabilizer
Calcium phosphate		Solid diluent, carrier
Calcium hydroxide		Do.
Calcium hypochlorite		Sanitizing and bleaching agent

TABLE 1 TO 180.910—Continued

Inert ingredients	Limits	Uses
Calcium lactate pentahydrate (CAS Reg. No. 5743–47–5) .....	.....	Nutrient, stabilizer
Calcium oxide .....	.....	Solid diluent, carrier
Calcium salt of partially dimerized rosin, conforming to 21 CFR 172.210 ..	.....	Coating agent
Calcium silicate .....	.....	Solid diluent, carrier
Calcium stearate .....	.....	Do.
Carbon Dioxide (CAS Reg. No. 124–38–9)	None	Propellant
Carrageenan, conforming to 21 CFR 172.620	Minimum molecular weight (in amu): 100,000.	Thickener
Cocamidopropylamine oxide (CAS Reg. No. 68155–09–9)	Not to exceed 6% by weight in the formulated product; only for use with glyphosate.	Surfactant.
Cetyl alcohol (CAS Reg. No. 36653–82–4)	Not more than 5.0% of pesticide formulation.	Evaporation retardant
Charcoal, activated	Meets specifications in the Food Chemical Codex.	Carrier
Coconut shells .....	.....	Solid diluent and carrier
Cod liver oil .....	.....	Solvent, cosolvent
Croscarmellose sodium (CAS Reg. No. 74811–65–7) .....	.....	Disintegrant, solid diluent, carrier, and thickener
n-Decyl alcohol (CAS Reg. No. 112–30–1) .....	.....	Solvent or co-solvent
5-decyne-4,7-diol, 2,4,7,9-tetramethyl- (CAS Reg. No. 126–86–3) .....	.....	surfactant, related adjuvant of surfactants and carriers.
Deoxyribonucleic acid (DNA) sequences consisting solely of adenine, cytosine, guanine and thymine, of 300 or fewer base pairs, and which do not contain start codons or regulatory sequences necessary for the initiation of transcription or translation.	No more than 1 ppm in pesticide formulation.	Product identifier.
Dialkyl (C ₈ –C ₁₈) dimethyl ammonium chloride	Not more than 0.2% in silica, hydrated silica.	Flocculating agent in the manufacture of silica, hydrated silica for use as a solid diluent, carrier
Diatomite (diatomaceous earth) .....	.....	Solid diluent carrier
Diethylaminoethanol, ethoxylated, propoxylated, reaction products with fatty acid dimers, minimum number average molecular weight (in amu), 1,200 (CAS Reg. No. 1173188–75–4).	.....	Surfactant
Diethylaminoethanol, ethoxylated, propoxylated, reaction products with fatty acid trimers, minimum number average molecular weight (in amu), 1,200 (CAS Reg. No. 1173188–83–4).	.....	Surfactant
Diethylaminethanol, ethoxylated, reaction product with fatty acid dimers, minimum number average molecular weight (in amu), 1,200 (CAS Reg. No. 1173188–72–1).	.....	Surfactant
Diethylaminoethanol, ethoxylated, reaction products with fatty acid trimers, minimum number average molecular weight (in amu), 1,200 (CAS Reg. No. 1173188–81–2).	.....	Surfactant
Diethylene glycol abietate .....	.....	Surfactants, related adjuvants of surfactants
1,1-Difluoroethane (CAS Reg. No. 75–37–6)	In pesticide formulations used for insect control in food- and feed-handling establishments and animals; in bird repellent pesticide formulations.	Aerosol propellant
Diglycerol (CAS Reg. No. 59113–36–9) .....	.....	Plasticizer.
1,2-Dihydro-6-ethoxy-2,2,4-trimethylquinolene	Not more than 0.02% of pesticide formulation.	Antioxidant
Diisopropanolamine (CAS Reg. No. 110–97–4)	Not to exceed 10% by weight of pesticide formulation.	Neutralizer or stabilizer
Diisopropyl adipate (CAS Reg. No. 6938–94–9)	40% in mosquito control formulations.	Solvent, co-solvent
Dimethyl adipate (CAS no. 627–93–0)	None	Solvent/co-solvent
Dimethylaminoethanol, ethoxylated, propoxylated, reaction products with fatty acid dimers, minimum number average molecular weight (in amu), 1,200 (CAS Reg. No. 1173188–42–5).	.....	Surfactant
Dimethylaminoethanol, ethoxylated, propoxylated, reaction products with fatty acid trimers, minimum number average molecular weight (in amu), 1,200 (CAS Reg. No. 1173188–67–4).		Surfactant

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TABLE 1 TO 180.910—Continued

Inert ingredients	Limits	Uses
Dimethylaminoethanol, ethoxylated, reaction products with fatty acid dimers, minimum number average molecular weight (in amu), 1,200 (CAS Reg. No. 1173188-38-9).		Surfactant
Dimethylaminoethanol, ethoxylated, reaction products with fatty acid trimers, minimum number average molecular weight (in amu), 1,200 (CAS Reg. No. 1173188-49-2).	.....	Surfactant
<i>N,N</i> -Dimethyl 9-decenamide (CAS Reg. No. 1356964-77-6)	Not to exceed 20% by weight of pesticide formulation.	Surfactant, solvent
2,2-Dimethyl-1,3-dioxolane-4-methanol (CAS Reg. No.100-79-8) .....	.....	Solvent/cosolvent
<i>N,N</i> -Dimethyldodecanamide (CAS Reg. No. 3007-53-2)	Not to exceed 20% by weight of pesticide formulation.	Surfactant, solvent
Dimethyl ether (methane, oxybis-) (CAS Reg. No. 115-10-6) .....	.....	Propellant
Dimethyl glutarate (CAS no. 1119-40-0)	None	Solvent/co-solvent
<i>N,N</i> -Dimethylnonanamide (CAS Reg. No. 6225-08-7)	Not to exceed 20% by weight of pesticide formulation.	Solvent, co-solvent, and adjuvant
3,6-Dimethyl-4-octyn-3,6-diol	Not more than 2.5% of pesticide formulation.	Surfactants, related adjuvants of surfactants
Dimethyl succinate (CAS no. 106-65-0)	None	Solvent/co-solvent
<i>N,N</i> -Dimethyltetradecanamide (CAS Reg. No. 3015-65-4)	Not to exceed 20% by weight of pesticide formulation.	Surfactant, solvent
Di- <i>n</i> -butyl carbonate (CAS Reg. No. 542-52-9) .....	.....	Solvent
Dipropylene glycol .....	.....	Solvent, cosolvent
Disodium phosphate .....	.....	Anticaking agent, conditioning agent
Disodium zinc ethylenediaminetetraacetate dihydride .....	.....	Sequestrant
Distillates, (Fishcher-Tropsch), heavy, C ₁₈ -C ₅₀ , branched, cyclic and linear (CAS Reg. No. 848301-69-9).	.....	Solvent, diluent and/or dust suppressant
Distillates (petroleum), solvent-dewaxed heavy paraffinic (CAS Reg. No. 64742-65-0).	.....	Carrier
6-dodecyne-5,8-diol, 2,5,8,11-tetramethyl- (CAS Reg. No. 68227-33-8) ...	.....	surfactant, related adjuvant of surfactants and carriers.
Dolomite .....	.....	Solid diluent, carrier
Epoxidized linseed oil .....	.....	Surfactants, related adjuvants of surfactants
Epoxidized soybean oil .....	.....	Do.
Erucamide (CAS Reg. No. 112-84-5) .....	.....	Lubricant in pesticide formulations applied on the raw agricultural commodities honey and honey-comb.
Ethanesulfonic acid, 2-hydroxy- (CAS Reg. No. 107-36-8) .....	.....	Chelator, sequestrant, or conditioning agent
Ethanesulfonic acid, 2-hydroxy-, ammonium salts (CAS Reg. No. 57267-78-4).	.....	Do.
Ethanesulfonic acid, 2-hydroxy-, calcium salts (CAS Reg. No. 10550-47-7).	.....	Do.
Ethanesulfonic acid, 2-hydroxy-, magnesium salts (CAS Reg. No. 17345-56-1).	.....	Do.
Ethanesulfonic acid, 2-hydroxy-, potassium salts (CAS Reg. No. 1561-99-5).	.....	Do.
Ethanesulfonic acid, 2-hydroxy-, sodium salts (CAS Reg. No. 1562-00-1)	.....	Do.
Ethanesulfonic acid, 2-hydroxy-, zinc salts (CAS Reg. No. 129756-32-7)	.....	Do.
Ethyl acetate .....	.....	Solvent, cosolvent
Ethyl alcohol .....	.....	Do.
Ethyl esters of fatty acids derived from edible fats and oils .....	.....	Solvent, cosolvent
Ethyl maltol (CAS Reg. No.4940-11-8)	Not more than 0.2 % of the pesticide formulation.	Odor masking agent

TABLE 1 TO 180.910—Continued

Inert ingredients	Limits	Uses
Ethylene glycol (CAS Reg. No. 107–21–1)	Without limitation	Encapsulating agent for pesticides being applied post-harvest as residual, and crack and crevice sprays in and around food and nonfood areas of residential and non-residential structures, including food handling establishments
Ethylene oxide adducts of 2,4,7,9-tetramethyl-5-decynediol, the ethylene oxide content averages 3.5, 10 or 30 moles (CAS Reg. No. 9014–85–1) .....	.....	Surfactants, related adjuvants of surfactants
Ethylenebis(oxyethylene) bis[3-(5-tert-butyl-4-hydroxy-m-tolyl) propionate] (CAS Reg. No. 36443–68–2)	1% by weight	Stabilizer
(S,S)-Ethylenediamine disuccinic acid trisodium salt (CAS Reg. No. 178949–82–1) .....	.....	Sequestrant or chelating agent
Ethylenediaminetetraacetic acid	3% of pesticide formulation	Sequestrant
Ethylenediaminetetraacetic acid, tetrasodium salt	5% of pesticide formulation	Sequestrant
2-Ethyl-1-hexanol (CAS Reg. No. 104–76–7)	Not more than 10% of pesticide.	Solvent, adjuvant of surfactants
Fatty acids, conforming to 21 CFR 172.860 .....	.....	Binder, defoaming agent, lubricant
Fatty acids, tall-oil, esters with triethanolamine, ethoxylated (CAS Reg. No. 68605–38–9)	10	Surfactant.
Fatty acids, C _{8–18} and C ₁₈ -unsatd., esters with polyethylene glycol ether with triethanolamine (3:1) (CAS Reg. No. 2464873–19–4)	10	Surfactant.
FD&C Blue No. 1	Not more than 0.2% of pesticide formulation.	Dye
FD&C Red No. 40 (CAS Reg. No. 25956–17–6) conforming to 21 CFR 74.340.	Not to exceed 0.002% by weight of pesticide formulation.	Dye, coloring agent
Ferric Citrate (CAS Reg. No. 2338–05–8) .....	.....	Stabilizer
Ferric sulfate .....	.....	Solid diluent, carrier
Formic Acid (CAS Reg. No. 64–18–6)	25%	adjuvant, pH buffering agent, pH adjuster
Fulvic acid (CAS Reg. No. 479–66–3) .....	.....	Carrier
Furcelleran .....	.....	Thickener
D-Glucitol, 1-deoxy-1-(methyl-amino)-, N-C _{8–10} acyl derivatives (CAS Reg. No. 1591782–62–5)	Not more than 40% by weight in pesticide formulation.	Surfactant
D-glucitol, 1,4:3,6-dianhydro-2,5-di-O-methyl- (CAS Reg. No. 5306–85–4); D-glucitol, 1,4:3,6-dianhydro-2,5-di-O-ethyl- (CAS Reg. No. 30915–81–2); D-glucitol, 1,4:3,6-dianhydro-2,5-di-O-propyl) (CAS Reg. No. 107644–13–3); D-glucitol, 1,4:3,6-dianhydro-2,5-bis-O-(1-methylethyl)-, (iso-propyl diether) (CAS Reg. No. 103594–41–8); D-glucitol, 1,4:3,6-dianhydro-2,5-di-O-butyl- (CAS Reg. No. 103594–42–9); D-glucitol, 1,4:3,6-dianhydro-2,5-di-O-(1-methylpropyl)-, (CAS Reg. No. not assigned); and D-glucitol, 1,4:3,6-dianhydro-2,5-di-O-(2-methylpropyl)-, (CAS Reg. No. not assigned) .....	.....	solvent, co-solvent, viscosity modifier, and adjuvant
D-glucopyranose, oligomeric, C _{10–16} -alkyl glycosides (CAS Reg. No. 110615–47–9) .....	.....	Surfactant
D-glucopyranose, oligomeric, 6-(dihydrogen citrates), C _{8–20} branched and linear alkyl glycosides, sodium salts (CAS Reg. No. 1079993–97–7) .....	.....	Surfactant
D-glucopyranose, oligomeric, 6-(hydrogen sulfosuccinates), C _{8–20} branched and linear alkyl glycosides, sodium salts (CAS Reg. No. 1079993–92–2) .....	.....	Surfactant
D-glucopyranose, oligomeric, lactates, C _{8–20} branched and linear alkyl glycosides (CAS Reg. No. 1079993–94–4) .....	.....	Surfactant
D-glucopyranose, oligomeric, maleates, C _{10–16} -alkyl glycosides, sulfonated, potassium salts (CAS Reg. No. 2587364–77–8) .....	.....	Surfactant.
D-glucopyranose, oligomeric, maleates, C _{9–11} -branched and linear alkyl glycosides, sulfonated, potassium salts (CAS Reg. No. 1228577–37–4) .....	.....	Surfactant.
D-glucopyranose, oligomeric, maleates, decyl octyl glycosides, sulfonated, potassium salts (CAS Reg. No. 2585031–35–0) .....	.....	Surfactant.
D-glucurono-6-deoxy-L-manno-D-glucan, acetate, calcium magnesium potassium sodium salt (diutan gum) (CAS Reg. No. 595585–15–2)		Stabilizer/suspension agent.

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TABLE 1 TO 180.910—Continued

Inert ingredients	Limits	Uses
Glycerides, edible fats and oils derived from plants and animals, reaction products with sucrose (CAS Reg. Nos. 100403–38–1, 100403–41–6, 100403–39–2, 100403–40–5).		Emulsifier, dispersing agent
Glycerol mono-, di-, and triacetate		Solvent, cosolvent
Glyceryl monostearate		Emulsifier
Granite		Do.
Graphite		Solid diluent, carrier
Gum arabic (acacia)		Surfactant, suspending agent, dispersing agent
Gypsum		Solid diluent, carrier
Hexamethylenetetramine	For use in citrus washing solutions only at not more than 1%.	Preservative
3-hexen-1-ol, (3Z)- (CAS Reg. No. 928-96-1)	Not more than 0.4% of the pesticide formulation.	Odorant, alerting agent
<i>n</i> -Hexyl alcohol (CAS Reg. No. 111–27–3)		Solvent, cosolvent
C ₉ rich aromatic hydrocarbons (CAS Reg. No. 64742–95–6)		Solvent
C _{10–11} rich aromatic hydrocarbons (CAS Reg. No. 64742–94–5)		Solvent
C _{11–12} rich aromatic hydrocarbons (CAS Reg. No. 64742–94–5)		Solvent
Hydrochloric acid		Solvent, neutralizer
Hydroxyethylmorpholine, ethoxylated, propoxylated, reaction products with fatty acid dimers, minimum number average molecular weight (in amu), 1,200 (CAS Reg. No. 1173189–06–4).		Surfactant
Hydroxyethylmorpholine, ethoxylated, propoxylated, reaction products with fatty acid trimers, minimum number average molecular weight (in amu), 1,200 (CAS Reg. No. 1173189–17–7).		Surfactant
Hydroxyethylmorpholine, ethoxylated, reaction products with fatty acid dimers, minimum number average molecular weight (in amu), 1,200 (CAS Reg. No. 1173189–00–8).		Surfactant
Hydroxyethylmorpholine, ethoxylated, reaction products with fatty acid trimers, minimum number average molecular weight (in amu), 1,200 (CAS Reg. No. 1173189–09–7).		Surfactant
Hydroxyethylpiperidine, ethoxylated, propoxylated, reaction products with fatty acid dimers, minimum number average molecular weight (in amu), 1,200 (CAS Reg. No. 1173189–22–4).	Surfactant.	.....
Hydroxyethylpiperidine, ethoxylated, propoxylated, reaction products with fatty acid trimers, minimum number average molecular weight (in amu), 1,200 (CAS Reg. No. 1173189–28–0).		Surfactant
Hydroxyethylpiperidine, ethoxylated, reaction products with fatty acid dimers, minimum number average molecular weight (in amu), 1,200 (CAS Reg. No. 1173189–20–2).		Surfactant
Hydroxyethylpiperidine, ethoxylated, reaction products with fatty acid trimers, minimum number average molecular weight (in amu), 1,200 (CAS Reg. No. 1173189–25–7).		Surfactant
Hydroxyethylidene diphosphonic acid (HEDP) (CAS Reg. No. 2809–21–4)	For use in antimicrobial pesticide formulations at not more than 1 percent.	Stabilizer, chelator
Iron oxide		Solid diluent, carrier
Iron oxide yellow (CAS Reg. No. 20344–49–4)	Not to exceed 0.15% by weight of pesticide formulation.	Colorant in pesticide formulations for varroa mite control around bee hives
Isoamyl acetate (CAS Reg. No. 123–92–2)		Buffering agent
Isobutane (CAS Reg. No. 75–28–5)	None	Propellant
Isobutyl Acetate (CAS Reg. No. 110–19–0)		Solvent
Isobutyl isobutyrate (CAS Reg. No. 97–85–8)	None	Solvent
2-Isobutyl-2-methyl-1,3-dioxolane-4-methanol (CAS Reg. No. 5660–53–7)		Solvent/Co-solvent
Isobutyric Acid (CAS Reg. No. 79–31–2)		Solvent
Isopropyl-3-hydroxybutyrate (CAS Reg. No. 54074–94–1)		Solvent
Isopropyl myristate (CAS Reg. No. 110–27–0)		Solvent
Kaolinite-type clay		Solid diluent, carrier
Lactic acid		Solvent
Lactic acid, 2-ethylhexyl ester (CAS Reg. No. 6283–86–9)		Solvent
Lactic acid, 2-ethylhexyl ester, (2S)- (CAS Reg. No. 186817–80–1)		Solvent
Lactic acid, <i>n</i> -propyl ester, (S); (CAS Reg. No. 53651–69–7)		Solvent
Lauryl alcohol		Surfactant
Lignin (CAS Reg. No. 9005–53–2)		Surfactant, related adjuvants of surfactants
Lignin, alkali (CAS Reg. No. 8068–05–1)		Do.
Lignin, alkali, oxidized, sodium salt (CAS Reg. No. 68201–23–0)		Do.

TABLE 1 TO 180.910—Continued

Inert ingredients	Limits	Uses
Lignin alkali reaction products with disodium sulfite and formaldehyde (CAS Reg. No. 105859–97–0).		Do.
Lignin alkali reaction products with formaldehyde and sodium bisulfite (CAS Reg. No. 68512–35–6).		Do.
Lignosulfonic acid (CAS Reg. No. 8062–15–5)		Do.
Lignosulfonic acid, ammonium calcium salt (CAS Reg. No. 12710–04–2)		Do.
Lignosulfonic acid, ammonium magnesium salt (CAS Reg. No. 123175–37–1).		Do.
Lignosulfonic acid, ammonium salt (CAS Reg. No. 8061–53–8)		Do.
Lignosulfonic acid, ammonium sodium salt (CAS Reg. No. 166798–73–8)		Do.
Lignosulfonic acid, calcium magnesium salt (CAS Reg. No. 55598–86–2)		Do.
Lignosulfonic acid, calcium salt (CAS Reg. No. 8061–52–7)		Do.
Lignosulfonic acid, calcium sodium salt (CAS Reg. No. 37325–33–0)		Do.
Lignosulfonic acid, ethoxylated, sodium salt (CAS Reg. No. 68611–14–3)		Do.
Lignosulfonic acid, magnesium salt (CAS Reg. No. 8061–54–9)		Do.
Lignosulfonic acid, potassium salt (CAS Reg. No. 37314–65–1)		Do.
Lignosulfonic acid, sodium salt (CAS Reg. No. 8061–51–6)		Do.
Lignosulfonic acid, sodium salt, oxidized (CAS Reg. No. 68855–41–4)		Do.
Lignosulfonic acid, sodium salt, polymer with formaldehyde and phenol (CAS Reg. No. 37207–89–9).		Do.
Lignosulfonic acid, sodium salt, sulfomethylated (CAS Reg. No. 68512–34–5).		Do.
Lignosulfonic acid, zinc salt (CAS Reg. No. 57866–49–6)		Do.
d-Limonene (CAS Reg. No. 5989–27–5)		Solvent, fragrance
Magnesium carbonate		Anticaking agent, con- ditioning agent
Magnesium chloride		Safener
Magnesium lime		Solid diluent, carrier
Magnesium oxide		Do.
Magnesium silicate		Do.
Magnesium stearate		Surfactant
Magnesium sulfate		Solid diluent, carrier, safener
Methyl alcohol		Solvent
Methyl <i>n</i> -amyl ketone (CAS Reg. No. 110–43–0)		Solvent, cosolvent
Methyl 5-(dimethylamino)-2-methyl-5-oxopentanoate (1174627–68–9)		Solvent
Methyl esters of fatty acids derived from edible fats and oils		Solvent, cosolvent
Methyl esters of higher fatty acids conforming to 21 CFR 573.640		Antidusting agent, sur- factant
Methyl isobutyl ketone		Solvent
2-methyl-2,4-pentanediol (CAS Reg. No. 107–41–5)	Without limitation	Growing crops and food animals
Methyl isobutyrate (CAS Reg. No. 547–63–7)	None	Solvent
2-methyl-1,3-propanediol (CAS Reg. No. 2163–42–0)		Solvent, surfactant
Methylated silicones		Antifoaming agent
Mono-, di-, and trimethylnaphthalenesulfonic acids and naphthalenesulfonic acids formaldehyde condensates, ammonium, so- dium and potassium salts (CAS Reg. Nos. 9008–63–3, 9069–80–1, 9084–06–4, 36290–04–7, 91078–68–1, 141959–43–5, 68425–94–5, 67828–14–2).		Surfactants, related adjuvants of surfactants
Mica		Solid diluent, carrier
Mineral oil, U.S.P., or conforming to 21 CFR 172.878 or 178.3620(a) (CAS Reg. No. 8012–95–1).		Diluent, carrier, and solvent
Monoammonium phosphate	No more than 3.75% by weight in formulation.	Postharvest fumigation in formulation with aluminum phosphide
Monoethanolamine (CAS Reg. No. 141–43–5)	Not to exceed 3.35% by weight in pesticide for- mulation.	Solvent
Mono- and diglycerides of C ₈ –C ₁₈ fatty acids		Surfactants, related adjuvants of surfactants
Montmorillonite-type clay		Solid diluent, carrier
Nitric acid (CAS Reg. No. 7697–37–2)	10% by weight in pesticide formulation.	pH adjuster.
Nonyl, decyl, and undecyl glycoside mixture with a mixture of nonyl, decyl, and undecyl oligosaccharides and related reaction products (pri- marily decanol and undecanol) produced as an aqueous-based liquid (50 to 65% solids) from the reaction of primary alcohols (containing 15 to 20% secondary alcohol isomers) in a ratio of 20% C ₉ , 40% C ₁₀ , and 40% C ₁₁ with carbohydrates (average glucose to alkyl chain ratio 1.3 to 1.8).		Surfactant.

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TABLE 1 TO 180.910—Continued

Inert ingredients	Limits	Uses
α -(p-Nonylphenol)- ω -hydroxypoly(oxyethylene) mixture of dihydrogen phosphate and monohydrogen phosphate esters and the corresponding ammonium, calcium, magnesium, potassium, sodium, and zinc salts of the phosphate esters; the nonyl group is a propylene trimer isomer and the poly(oxyethylene) content averages 4–14 or 30 moles (CAS Reg. Nos. 51811–79–1, 59139–23–0, 67922–57–0, 68412–53–3, 68553–97–9, 68954–84–7, 99821–14–4, 152143–22–1, 51609–41–7, 37340–60–6, 106151–63–7, 68584–47–4, 52503–15–8, 68458–49–1).	Not to exceed 7% of pesticide formulation.	Surfactants, related adjuvants of surfactants
α -(p-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 30-90 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 30-90.	.....	Surfactants, related adjuvants of surfactants
α -(p-Nonylphenol)- ω -hydroxypoly(oxyethylene) sulfate, ammonium, calcium, magnesium, potassium, sodium, and zinc salts the nonyl group is propylene trimer isomer and the poly(oxyethylene) content averages 4 moles (CAS Reg. Nos. 9014–90–8, 9051–57–4, 9081–17–8, 68649–55–8, 68891–33–8).	Not to exceed 7% of pesticide formulation.	Surfactants, related adjuvants of surfactants
1-Octanal (CAS Reg. No. 124–13–0)	Not more than 0.2% of the pesticide formulation.	Odor masking agent
1-Octanamine, N,N-dimethyl-, N-oxide (CAS Reg. No. 2605–78–9)	Not to exceed 15% of pesticide formulation.	Surfactant
n-Octyl alcohol (CAS Reg. No. 111–87–5) .....	.....	Solvent or co-solvent
Octyl and decyl glucosides mixture with a mixture of octyl and decyloigosaccharides and related reaction products (primarily n-decanol) produced as an aqueous-based liquid (68-72% solids) from the reaction of straight chain alcohols (C ₈ (45%), C ₁₀ (55%)) with anhydrous glucose.	.....	Surfactants, related adjuvants of surfactants
Oleic acid .....	.....	Diluent
Oleic acid diester of α -hydro- ω -hydroxypoly (oxyethylene); the poly(oxyethylene) having average molecular weight (in amu) 400.	.....	Surfactants, related adjuvants of surfactants
α -Oleoyl- ω -hydroxypoly(oxyethylene), average molecular weight (in amu) of 600.	.....	Emulsifier
Oleyl alcohol (CAS Reg. No. 143–28–2)	15%	Cosolvent
Oxalic acid	No more oxalic acid should be used than is necessary to chelate calcium and in no case should more than 2 lb oxalic acid per acre be used.	Calcium chelating hard water inhibitor
Oxirane, 2-methyl-, polymer with oxirane, mono-2-propen-1-yl ether (CAS Reg. No. 9041–33–2).	.....	Diluent
Palmitic acid .....	.....	Flow aid, surface protectant, binder, carrier, coating agent or adjuvant.
Paraffin waxes and hydrocarbon waxes (CAS Reg. No. 8002–74–2); carboxypolymethylene resin (CAS Reg. No. 68153–22–0); and paraffin waxes and hydrocarbon, oxidized, lithium salts (CAS Reg. No. 68649–48–9).	.....	Plasticizer
Pentaerythritol ester of maleic anhydride modified wood rosin .....	.....	Antioxidant, stabilizer
Pentaerythritol tetrakis (3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate) (CAS Reg. No. 6683–19–8).	Not to exceed 5% by weight of the pesticide formulation.	.....
Petrolatum, conforming to 21 CFR 172.880 .....	.....	Coating agent
Petroleum hydrocarbons, light odorless conforming to 21 CFR 172.884 ....	.....	Solvent, diluent.
Petroleum hydrocarbons, synthetic isoparaffinic, conforming to 21 CFR 172.882.	.....	Do.
Petroleum naphtha, conforming to 21 CFR 172.250(d) .....	.....	Component of coating agent
Petroleum wax, conforming to 21 CFR 172.886(d) .....	.....	Coating agent
2-Phenoxyethanol (CAS Reg. No. 122–99–6)	0.2% by weight in pesticide formulation.	Solvent or co-solvent
Phenylethyl acetate (CAS Reg. No. 103–45–7)	Not to exceed 0.015% in pesticide formulation.	Solvent
Phosphoric acid .....	.....	Buffer
Polyammonium bisulfate (CAS Reg. No. 10043–02–4)	Not to exceed 40% in non-residential formulations. Not to exceed 5% in outdoor and indoor formulations for residential use.	Carrier, adjuvant, buffer, and stabilizer

TABLE 1 TO 180.910—Continued

Inert ingredients	Limits	Uses
Polyethylene, conforming to 21 CFR 177.1520(c) .....	.....	Binder, carrier, and coating agent
Polyethylene glycol[α -hydro- ω -hydroxypoly(oxyethylene)]; mean molecular weight (in amu) 194 to 9,500 conforms to 21 CFR 178.3750. ....	.....	Surfactants, related adjuvants of surfactants
Polyethylenimine (CAS Reg. No. 9002–98–6)	Minimum number average molecular weight 1,300 amu.	Emulsifier, surfactant, adjuvant, dispersant and/or coating
Polyglycerol esters of fatty acids conforming to 21 CFR 172.854 .....	.....	Surfactants, related adjuvants of surfactants
Polyglyceryl phthalate ester of coconut oil fatty acids, including fatty acid coco polymers with glyceryl and phthalic anhydride (CAS No. 67746–02–5) and coconut oil polymer with glyceryl and phthalic anhydride (CAS No. 66070–87–9).	None	Surfactants, related adjuvants of surfactants
Poly(oxy-1,2-ethanediyl), α -acetyl- ω -(2-propen-1-yloxy)- (CAS Reg. No. 27252–87–5). ....	.....	.....
Poly (oxy-1,2-ethanediyl), α,α' -[[[4-[2-(4-methyl-2-benzothiazolyl)diazenyl]phenyl]imino]di-2,1-ethanediyl]bis[ω -hydroxy- (CAS Reg. No. 158172–12–4). ....	.....	Colorant.
Poly(oxy-1,2-ethanediyl), α -(carboxymethyl)- ω -(nonylphenoxy) produced by the condensation of 1 mole of nonylphenol (nonyl group is a propylene trimer isomer) with an average of 4-14 or 30-90 moles of ethylene oxide. The molecular weight (in amu) ranges are 454-894 and 1598-4238. ....	.....	Surfactant
Poly(oxy-1,2-ethanediyl), α -methyl- ω -(2-propen-1-yloxy)- (CAS Reg. No. 27252–80–8). ....	.....	.....
Poly(oxy-1,2-ethanediyl), α -(1-oxoalkyl)- ω -methoxy-, where the alkyl chain contains a minimum of 6 and a maximum of 18 carbons and the oxyethylene content is 3–13 moles (CAS Reg. No. 53100–65–5, 194289–64–0, 34398–00–0, 9006–27–3, 32761–35–6, 53467–81–5, 518299–31–5, and 34397–99–4).	Not to exceed 25% by weight in pesticide formulation.	Stabilizer, solubilizing agent
Poly(oxy-1,2-ethanediyl), α -[tris(1-phenylethyl)phenyl]- ω -hydroxy-, (CAS Reg. No. 99734–09–5).	For use in post-harvest applications; not to exceed 15% by weight in pesticide formulations.	Surfactants
Poly(oxy-1,2-ethanediyl), α -(3-carboxy-1-oxosulfopropyl)- ω -hydroxy-, C_{10-12} -alkyl ethers, disodium salts, the poly(oxyethylene) content averages 5–15 moles (CAS Reg. No. 68954–91–6).	Not to exceed 10% by weight of pesticide formulation.	Surfactant
Poly(oxy-1,2-ethanediyl), α -(3-carboxy-1-oxosulfopropyl)- ω -hydroxy-, C_{10-16} -alkyl ethers, disodium salts, the poly(oxyethylene) content averages 5–15 moles (CAS Reg. No. 68815–56–5).	Not to exceed 10% by weight of pesticide formulation.	Surfactant
Poly(oxy-1,2-ethanediyl), α -(3-carboxy-1-oxosulfopropyl)- ω -hydroxy-, C_{12-14} -alkyl ethers, disodium salts, the poly(oxyethylene) content averages 5–15 moles (CAS Reg. No. 1024612–24–5).	Not to exceed 10% by weight of pesticide formulation.	Surfactant
Poly(oxy-1,2-ethanediyl), α -(3-carboxy-1-oxosulfopropyl)- ω -(isotridecyloxy)-, sodium salt (1:2), the poly(oxyethylene) content averages 5–15 moles (CAS Reg. No. 1013906–64–3).	Not to exceed 10% by weight of pesticide formulation.	Surfactant
Polyoxyethylene (20) sorbitan monostearate .....	.....	Surfactants, related adjuvants of surfactants
[Poly[oxy(methyl-1,2-ethanediyl)], α -[2-bis(2-hydroxyethyl)amino]propyl]- ω -hydroxy-, ether with α -hydro- ω -hydroxypoly(oxy-1,2-ethanediyl) (1:2), mono- C_{12-16} alkyl ethers, (CAS Reg. No. 176022–82–5).	Not to exceed 15% in the formulated product; only for use with glyphosate.	Surfactant
Polysorbate 65, conforming to 21 CFR 172.838 .....	.....	Emulsifier
Potassium aluminum silicate .....	.....	Solid diluent, carrier
Potassium benzoate (Cas No. 582–25–2)	None	Preservative
Potassium hydroxide .....	.....	Neutralizer
Potassium phosphate .....	.....	Buffer
Potassium sulfate .....	.....	Solid diluent
Propanamide, 2-hydroxy-N, N-dimethyl- (CAS Reg. No. 35123–06–9)	Not to exceed 50% by weight in pesticide formulation.	Solvent/co-solvent
Propane .....	.....	Propellant
1,3-Propanediol (CAS Reg. No. 504–63–2) .....	.....	Solvent, co-solvent, diluent, or freeze-point depressant
Propanoic acid, 2-methyl-, monoester with 2,2,4-trimethyl-1,3-pentanediol (CAS Reg. No. 25265–77–4). ....	.....	Solvent, co-solvent
2-Propanol, 1,1',1''-nitrioltris- (CAS No. 122–20–3)	Without limitation	Neutralizer
n-Propanol		Solvent, cosolvent

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TABLE 1 TO 180.910—Continued

Inert ingredients	Limits	Uses
2-Propenoic acid, 2-methyl-, polymer with ethyl 2-propenoate and methyl 2-methyl-2-propenoate, ammonium salt (CAS Registration No. 55989-05-4), minimum number average molecular weight (in amu), 18,900..		Encapsulating agent, dispensers, resins, fibers and beads
Propyl gallate		Antioxidant
Propyl <i>p</i> -hydroxybenzoate		Preservative for formulations
Propylene glycol		Solvent, cosolvent
Propylene glycol alginate (as defined in 21 CFR 172.858)		Defoaming agent
Propylene glycol monomethyl ether (CAS No. 107-98-2)	none	solvent
2,6-Pyridinedicarboxylic acid (CAS Reg. No. 499-83-2)	Not to exceed 2 ppm	Stabilizer.
Pyrophyllite		Solid diluent, carrier
Pyrrolo[3,4- <i>c</i>]pyrrole-1,4-dione, 3,6-bis(4-chlorophenyl)-2,5-dihydro- (CAS Reg. No. 84632-65-5).		Dye, coloring agent.
<i>Rhizobium</i> inoculants (e.g. <i>Sinorhizobium</i> , <i>Bradyrhizobium</i> & <i>Rhizobium</i>)		All leguminous food commodities
Rosin, partially dimerized (as defined in 21 CFR 172.615)		Surfactants, related adjuvants of surfactants
Rosin, partially hydrogenated (as defined in 21 CFR 172.615)		Do.
Rosin, wood		Do.
Salicylaldehyde (CAS Reg. No. 90-02-8)	Not to exceed 14% by weight of pesticide formulation.	Penetration aid
Salts of fatty acids, conforming to 21 CFR 172.863		Binder, emulsifier, anticaking agent
Sand		Solid diluent, carrier
Shellac, bleached; refined, food grade, arsenic and rosin-free		Coating agent
Silver nitrate (Cas Reg. No. 7761-88-8)	For use on potatoes as post-harvest treatment to control sprouting at no more than 0.06% by weight in pesticide formulations.	Stabilizer
Soapstone		Solid diluent
Sodium acid pyrophosphate		Surfactant, suspending agent, dispersing agent, buffer
Sodium alkyl naphthalenesulfonates (CAS Reg. Nos. 68909-83-1, 68909-84-2, 68909-82-0, 27213-90-7, 26264-58-4, 27178-87-6, 111163-74-7, 908356-16-1, 25417-20-3, 25638-17-9, 145578-88-7, 1322-93-6, 1323-19-9, 7403-47-6, 68442-09-1, 127646-44-0, 908356-18-3).	Limited to no more than 30% by weight in pesticide end-use products.	Surfactants, related adjuvants of surfactants
Sodium aluminum silicate		Solid diluent, carrier
Sodium dioctylsulfosuccinate		Surfactants, related adjuvants of surfactants
Sodium 1,4-diethyl sulfosuccinate (CAS Reg. No. 3006-15-3)		Surfactants, related adjuvants of surfactants
Sodium 1,4-diisobutyl sulfosuccinate (CAS Reg. No. 127-39-9)		Surfactants, related adjuvants of surfactants
Sodium 1,4-dipentyl sulfosuccinate (CAS Reg. No. 922-80-5)		Surfactants, related adjuvants of surfactants
Sodium Formate (CAS Reg. No. 141-53-7)		adjuvant, pH buffering agent
Sodium DL-lactate (CAS Reg. No. 72-17-3)		Surfactant
Sodium hexametaphosphate		Surfactant, emulsifier, wetting agent, suspending agent, dispersing agent, buffer
Sodium hydroxide		Neutralizer
Sodium L-lactate (CAS Reg. No. 867-56-1)		Surfactant
Sodium metasilicate		Surfactants, emulsifiers, wetting agents, dispersing agents, buffer

TABLE 1 TO 180.910—Continued

Inert ingredients	Limits	Uses
Sodium monoalkyl and dialkyl (C6-C16) phenoxy benzenedisulfonates and related acids (CAS Reg. Nos. 147732–59–0, 147732–60–3, 169662–22–0, 70191–75–2, 36445–71–3, 39354–74–0, 70146–13–3, 119345–03–8, 149119–20–0, 149119–19–7, 119345–04–9, 28519–02–0, 25167–32–2, 30260–73–2, 65143–89–7, 70191–76–3).	Not to exceed 20% in pesticide formulations.	Surfactants, related adjuvants of surfactants
Sodium α -olefinsulfonate (sodium C ₁₄ -C ₁₆) (Olefin sulfonate) .....	.....	Surfactants, related adjuvants of surfactants
Sodium <i>N</i> -oleoyl- <i>N</i> -methyl taurine (CAS Reg. No. 137–20–2) .....	.....	Surfactants, related adjuvants of surfactants
Sodium and potassium salts of <i>N</i> -alkyl (C ₈ –C ₁₈)- β -iminodipropionic acid where the C ₈ –C ₁₈ is linear and may be saturated and/or unsaturated (CAS Reg. Nos. 110676–19–2, 3655–00–3, 61791–56–8, 14960–06–6, 26256–79–1, 90170–43–7, 91696–17–2, 97862–48–1).	Concentration in formulated end-use products not to exceed 30% by weight in pesticide formulations.	Surfactants, related adjuvants of surfactants
Sodium salt of sulfated oleic acid .....	.....	Surfactants, related adjuvants of surfactants
Sodium silicate .....	.....	Surfactant, emulsifier, wetting agent, stabilizer, inhibitor
Sodium starch glycolate (CAS Reg. No. 9063–38–1)	Granular and tableted products only; not to exceed 8% of the formulated product.	Disintegrant
Sodium sulfate .....	.....	Solid diluent, carrier
Sodium tripolyphosphate .....	.....	Buffer, surfactant, suspending agent, dispersing agent, anticaking agent, conditioning agent
Sorbic acid (CAS Reg. No. 110–44–1) .....	.....	Preservative for formulations
Sorbitan fatty acid esters (fatty acids limited to C ₁₂ , C ₁₄ , C ₁₆ , and C ₁₈ containing minor amounts of associated fatty acids) and their derivatives; the poly(oxyethylene) content averages 5-20 moles.	.....	Surfactants, related adjuvants or surfactants.
Soybean flour	Expires May 24, 2005.	Surfactant
Soybean oil-derived fatty acids .....	.....	Solvent, cosolvent
Stearic acid .....	.....	Diluent
α -Stearoyl- ω -hydroxypoly(oxyethylene), average molecular weight (in amu) of 600.	.....	Emulsifier
α -Stearoyl- ω -hydroxypoly(oxyethylene); the poly(oxyethylene) content averages either 8, 9, or 40 moles; if a blend of products is used, the average number of moles ethylene oxide reacted to produce any product that is a component of the blend shall be either 8, 9, or 40.	.....	Surfactants, related adjuvants of surfactants
Sucrose octaacetate .....	.....	Adhesive
Sulfite liquors and cooking liquors, spent, oxidized (CAS Reg. No. 68514–09–0).	.....	Surfactant, related adjuvants of surfactants
Sulfuric acid (CAS Reg. No. 7664–93–9)	Not to exceed 10% of the pesticide formulation; non-aerosol formulations only.	pH Control agent
Sweet orange peel tincture (CAS Reg. No. 8028–48–6)	Not to exceed 10% (weight/weight) in pesticide formulation.	Surfactant, fragrance, related adjuvants of surfactants
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
Tall oil fatty acids (CAS Reg. No. 61790–12–3) .....	.....	Solvent/carrier
Tartrazine .....	.....	Dye
Terpenes and terpenoids, turpentine oil, alpha-pinene fraction, polymd. (CAS Reg. No. 70750–57–1).		Surfactants, related adjuvants of surfactants

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TABLE 1 TO 180.910—Continued

Inert ingredients	Limits	Uses
Tetraethyl orthosilicate (CAS Reg. No. 78–10–4)	Not to exceed 2% by weight of pesticide formulations.	Binder.
1,1,1,2-Tetrafluoroethane, (CAS Reg. No. 811–97–2) .....	.....	Aerosol propellant
Trans-1,3,3,3-tetrafluoroprop-1-ene (CAS Reg. No. 29118–24–9) .....	.....	Propellant
Tetrahydrofurfuryl alcohol (THFA) (CAS Reg. No. 97–99–4)	Expires February 9, 2008	Solvent/cosolvent
N,N,N',N'',-tetrakis-(2-hydroxypropyl) ethylenediamine (CAS Reg. No. 102–60–3).	Concentration in formulated end-use products not to exceed 20% by weight in pesticide formulations.	Stabilizer for formulation.
α-[p-(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxypoly(oxyethylene) produced by the condensation of 1 mole of p-(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 (CAS Reg. Nos. 9036–19–5, 9002–93–1).	Not to exceed 7% of pesticide formulation.	Surfactants related adjuvants of surfactants
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
Thiosulfuric acid, disodium salt, anhydrous. (CAS Reg. No. 7772–98–7) ....	.....	Dechlorinator, reducing agent
Thiosulfuric acid, disodium salt, pentahydrate. (CAS Reg. No. 10102–17–7).	.....	Do.
d-Alpha tocopherol (CAS Reg. No. 9–02–9)	None	Safener
d-Alpha tocopheryl acetate (CAS Reg. No. 58–95–7)	None	Do.
dl-Alpha tocopherol (CAS Reg. No. 10191–41–0)	None	Do.
dl-Alpha tocopheryl acetate (CAS Reg. No. 7695–91–2)	None	Do.
Tricalcium phosphate .....	.....	Surfactant, suspending agent, dispersing agent, anticaking agent, conditioning agent
Trisodium phosphate .....	.....	Surfactant, emulsifier, wetting agent
1-undecanol (CAS Reg. No. 112–42–5), 1-tetradecanol (CAS Reg. No. 112–72–1), 1-octadecanol (CAS Reg. No. 112–92–5), 1-eicosanol (CAS Reg. No. 629–96–9), 1-docosanol (CAS Reg. No. 661–19–8), alcohols, C _{16–18} , distn. residues (CAS Reg. No. 68603–17–8 & CAS Reg. No. 1190630–03–5), alkenes, C _{18–22} , mixed with polyethylene, oxidized, hydrolyzed, distn. residues from C _{16–18} alcs. manuf. (CAS Reg. No. 1430895–61–6), alkenes, C _{18–22} , mixed with polyethylene, oxidized, hydrolyzed, distn. residues from C _{20–22} alcs. manuf. (CAS Reg. No. 1430895–62–7).	.....	Carrier/Adjuvant and Coating Agent/Binder.
Vermiculite .....	.....	Solid diluent, carrier.
Vitamin E (CAS Reg. No. 1406–18–4)	None	Safener
Walnut shells .....	.....	Leaching inhibitor, binder for water-dispersible aggregates, sticker and suspension stabilizer
Waxes and waxy substances, rice bran, oxidized (CAS Reg. No. 1883583–80–9).	.....	Flow aid, surface protectant, film-forming agent, carrier, coating agent, or adjuvant
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 (CAS Reg. No. 1314–13–2)	Not more than 15% by weight in pesticide formulations when used as stabilizer.	Coating agent, stabilizer

TABLE 1 TO 180.910—Continued

Inert ingredients	Limits	Uses
Zinc stearate (CAS Reg No. 557–05–1)	Not to exceed 6 percent by weight of fumigant pesticide formulation.	Lubricant
Zinc sulfate (basic and monohydrate) .....	.....	Do.
Zinc sulfate (basic and monohydrate) .....	.....	Solid diluent, carrier

[69 FR 23117, Apr. 28, 2004]

EDITORIAL NOTE: For FEDERAL REGISTER citations affecting § 180.910, see the List of CFR Sections Affected, which appears in the Finding Aids section of the printed volume and at www.govinfo.gov.

§ 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:

TABLE 1 TO 180.920

Inert ingredients	Limits	Uses
Acetic acid, 2-ethylhexyl ester (CAS Reg. No. 103–09–3).	Not to exceed 50% by weight in pesticide formulation.	Solvent/Co-solvent
Acetophenone (CAS Reg. No. 98–86–2) .....	.....	Attractant, solvent, co-solvent
Adenosine (CAS Reg. No. 58–61–7)	Maximum of 0.5% of formulation.	Synergist
Adipic acid (CAS Reg. No. 124–04–9) .....	.....	Acidification or buffering agent; pH regulator
Alder bark .....	.....	Seed germination stimulator
Alkyl (C ₁₂ –C ₁₆) dimethyl ammonio acetate (CAS Reg. Nos. 683–10–3, 2601–33–4 and 693–33–4.	20% by weight in pesticide formulation.	Surfactant
α-Alkyl (minimum C ₆ linear, branched, saturated and/or unsaturated)-ω-hydroxypolyoxyethylene polymer with or without polyoxypropylene, mixture of di- and monohydrogen phosphate esters and the corresponding ammonium, calcium, magnesium, monoethanolamine, potassium, sodium, and zinc salts of the phosphate esters; minimum oxyethylene content is 2 moles; minimum oxypropylene content is 0 moles (CAS Reg. Nos. 9046–01–9, 37280–82–3, 39464–66–9, 42612–52–2, 50643–20–4, 52019–36–0, 58318–92–6, 60267–55–2, 61837–79–4, 67711–84–6, 68070–99–5, 68071–35–2, 68071–17–0, 68130–47–2, 68186–37–8, 68186–36–7, 68311–02–4, 68425–73–0, 68458–48–0, 68511–37–5, 68610–65–1, 68585–36–4, 68649–29–6, 68815–11–2, 68908–64–5, 68891–13–4, 73038–25–2, 78330–24–2, 108818–88–8, 154518–39–5, 317833–96–8, 873662–29–4, 936100–29–7, 936100–30–0).	Not to exceed 30% of pesticide formulation.	Surfactants, related adjuvants of surfactants
N-alkyl(C ₈ –C ₁₈) dimethylamidopropylamines where the alkyl group is linear and may be saturated and/or unsaturated (CAS Reg. Nos. 109–28–4, 3179–80–4, 7651–02–7, 22890–10–4, 22890–11–5, 39669–97–1, 45267–19–4, 68140–01–2, 1147459–12–8, 146987–98–6).	Not to exceed 20% by weight in herbicide formulations.	Surfactants, related adjuvants of surfactants