

# 40 C.F.R. § 180.930

## Inert ingredients applied to animals; 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 animals:

Table 1 to 180.930

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
Acetone (Cas Reg. No. 67-64-1)		Solvent or cosolvent
Alcohols, C <sub>2-33</sub> , 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 <sub>8</sub> -C <sub>24</sub> ) benzenesulfonic acid and its ammonium, calcium, magnesium, potassium, sodium, and zinc salts		Surfactants, emulsifier, related adjuvants of surfactants
Alkyl (C <sub>12</sub> -C <sub>16</sub> ) dimethyl ammonio acetate (CAS Reg. Nos. 683-10-3, 2601-33-4 and 693-33-4)	20% by weight in pesticide formulation	Surfactant

<p>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, 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)</p>	<p>Not to exceed 30% by weight in pesticide formulations</p>	<p>Surfactants, related adjuvants of surfactants.</p>
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<p><math>\alpha</math>-alkyl(C<sub>6</sub>-C<sub>15</sub>)-<math>\omega</math>-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, 27731-61-9, 27731-61-9, 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, 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)</p>	<p>Not to exceed 30% of formulation</p>	<p>Surfactants, related adjuvants of surfactants.</p>
<p><math>\alpha</math>-alkyl (C<sub>12</sub>-C<sub>15</sub>)-<math>\omega</math>-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<sub>12</sub>-C<sub>15</sub>) alcohols having a minimum molecular weight (in amu) of 1,500, CAS Reg. No. 68551-13-3</p>	<p>Not to exceed 20% of pesticide formulations</p>	<p>Surfactant</p>
<p><math>\alpha</math>-Alkyl-<math>\omega</math>-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)</p>		<p>Surfactants, related adjuvants of surfactants</p>

<p>α-alkyl (minimum C<sub>6</sub> 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, 52019-38-2, 52019-38-2, 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, 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)</p>	<p>Not to exceed 30% of formulation</p>	<p>Surfactants, related adjuvants of surfactants.</p>
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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)	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
Alkyl (C <sub>8</sub> -C <sub>18</sub> ) sulfate and its ammonium, calcium, magnesium, potassium, sodium, and zinc salts		Surfactant
N,N-Bis- $\alpha$ -ethyl- $\omega$ -hydroxypoly(oxy-1,2-ethanediyl) C8-C18 saturated and unsaturated alkylamines; the poly(oxy-1,2-ethanediyl) content is 2-60 moles (CAS Reg. Nos. 10213-78-2, 25307-17-9, 26635-92-7, 26635-93-8, 288259-52-9, 58253-49-9, 61790-82-7, 61791-14-8, 61791-24-0, 61791-26-2, 61791-31-9, 61791-44-4, 68155-33-9, 68155-39-5, 68155-40-8, 70955-14-5, 73246-96-5, 1266162-49-5)	Not to exceed 25% in herbicide formulations and 10% in insecticide and fungicide formulations	Surfactants, related adjuvants of surfactants
N,N-Bis- $\alpha$ -ethyl- $\omega$ -hydroxypoly(oxy-1,2-ethanediyl)/oxy(methyl-1,2-ethanediyl) C <sub>8</sub> -C <sub>18</sub> saturated and unsaturated alkylamines; the poly(oxy-1,2-ethanediyl)/oxy(methyl-1,2-ethanediyl) content is 2-60 moles (CAS Reg. Nos. 68213-26-3, 68153-97-9, 75601-76-2)	Not to exceed 25% in herbicide formulations and 10% in insecticide and fungicide formulations	Surfactants, related adjuvants of surfactants
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

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
n-Butanol (CAS Reg. No. 71-36-3)		Solvent for blended emulsifiers
Butoxypolypropylene glycol (CAS Reg. No. 9003-13-8)		
n-Butyl benzoate (CAS RN 136-60-7)		Solvent
n-Butyl-3-hydroxybutyrate (CAS Reg. No. 53605-94-0)		Solvent
Butylated hydroxyanisole		Antioxidant
Butylated hydroxytoluene		Do.
Calcium carbonate		Solid diluent, carrier
Calcium chloride		Stabilizer
Calcium silicate, hydrated calcium silicate		Anticaking agent, solid diluent, carrier
C <sub>9</sub> rich aromatic hydrocarbons (CAS Reg. No. 64742-95-6)		Solvent
C <sub>10-11</sub> rich aromatic hydrocarbons (CAS Reg. No. 64742-94-5)		Solvent
C <sub>11-12</sub> rich aromatic hydrocarbons (CAS Reg. No. 64742-94-5)		Solvent
Calcium stearate (CAS Reg. No. 1592-23-0)		Stabilizer, component of plastic animal tag
Calcium sulfate		Solid diluent, carrier
Carbon black (CAS Reg. No. 1333-86-4)		Colorant/pigment in animal tag
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

Cumene sulfonic acid and its ammonium, calcium, magnesium, potassium, sodium and zinc salts (CAS Reg. Nos. 15763-76-5, 16066-35-6, 164524-02-1, 28085-69-0, 28348-53-0, 28631-63-2, 32073-22-6, 37475-88-0, 37953-05-2, and 90959-88-9)		Surfactant, related adjuvant of surfactant
Cyclohexanone		Solvent, cosolvent
D&C Green No. 6		Dye, coloring agent
D&C Red No. 17		Do.
D&C Violet No. 2		Do.
5-decyne-4,7-diol, 2,4,7,9-tetramethyl- (CAS Reg. No. 126-86-3)		surfactant, related adjuvant of surfactants and carriers.
Dialkyl (C <sub>8</sub> -C <sub>18</sub> ) dimethylammonium 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
Diethanolamine salts of alkyl (C <sub>8</sub> -C <sub>24</sub> ) benzenesulfonic acid (CAS Reg. Nos. 26545-53-9, 67815-95-6, 67889-94-5, 67889-95-6, 68259-34-7, 68478-47-7, 68567-68-0, 68815-34-9, 68815-37-2, 68891-02-1, 68953-97-9, 84989-15-1, 85338-09-6, 90194-39-1, 90194-40-4, 90218-08-9)	Not to exceed 7% of pesticide formulation	Surfactants, related adjuvants of surfactants.
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
Diethylaminoethanol, ethoxylated, reaction products with acid trimers, minimum number average molecular weight (in amu), 1,200 (CAS Reg. No. 1173188-81-2)		Surfactant
Diethylaminoethanol, ethoxylated, reaction product with fatty acid dimers, minimum number average molecular weight (in amu), 1,200 (CAS Reg. No. 1173188-72-1)		Surfactant
Diethylphthalate		Solvent, cosolvent

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
Dimethyl ether (CAS Reg. No. 115-10-6)		Propellant
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
Dimethylaminoethanol, ethoxylated, reaction products with fatty acid trimers, 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
Dimethylaminopropylamine, isopropylamine, ethanolamine, and triethanolamine salts of alkyl (C <sub>8</sub> -C <sub>24</sub> ) benzenesulfonic acid (CAS Reg. Nos. 3088-30-0, 12068-12-1, 26264-05-1, 26836-07-7, 27323-41-7, 55470-69-4, 58089-99-9, 61886-59-7, 61931-76-8, 67924-05-4, 68110-32-7, 68259-35-8, 68411-31-4, 68442-72-8, 68567-69-1, 68584-24-7, 68584-25-8, 68648-81-7, 68648-96-4, 68649-00-3, 68815-30-5, 68815-35-0, 68910-32-7, 68953-93-5, 68953-98-0, 70528-84-6, 72391-21-0, 84961-74-0, 85480-55-3, 85480-56-4, 85995-82-0, 90194-42-6, 90194-53-9, 90194-54-0, 90194-55-1, 90218-09-0, 90218-11-4, 90218-35-2, 96687-54-6, 99924-49-9, 121617-08-1, 157966-96-6, 193562-36-6, 319926-68-6, 877677-48-0, 1093628-27-3).		Surfactants, related adjuvants of surfactants.
N,N-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-octyne-3,6-diol	Not more than 2.5% of pesticide formulation	Surfactants, related adjuvants of surfactants
Dimethylpolysiloxane (CAS Reg. No. 9016-00-6)		Defoaming agent
Di-n-butyl carbonate (CAS Reg. No. 542-52-9)		Solvent



Dipropylene glycol monomethyl ether		Surfactants, related adjuvants of surfactants
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.
Epoxidized soybean oil (CAS Reg. No. 8013-07-8)		Stabilizer, plasticizer, component animal tag
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 alcohol		Solvent, cosolvent
Ethyl maltol (CAS Reg. No.4940-11-8)	Not more than 0.2 % of the pesticide formulation	Odor masking agent
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
2-Ethyl-1-hexanol (CAS Reg. No. 104-76-7)	Not more than 10% of pesticide	Solvent, adjuvant of surfactants
FD&C Blue No. 1		Dye, coloring agent
FD&C Yellow No. 6 Aluminum Lake (CAS Reg. No. 15790-07-5)	Not more than 2% by weight of pesticide formulation	Pigment in animal tag and similar slow-release devices

Formic Acid (CAS Reg. No. 64-18-6)	25%	pH adjuster.
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 <sub>10-16</sub> -alkyl glycosides (CAS Reg. No. 110615-47-9)		Surfactant
Glycerol monooleate		Surfactants, related adjuvants of surfactants
Glyceryl monostearate		Emulsifier
Glyceryl tris-12-hydroxystearate		Flow control agent
Graphite		Solid diluent, carrier
n-Hexyl alcohol (CAS Reg. No. 111-27-3)		Solvent, cosolvent
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. 1173188-67-4)		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

2-(2'-Hydroxy-5'-methylphenyl)benzotriazole (CAS Reg. No. 2440-22-4)	Not more than 0.5% by weight of pesticide formulation	Ultraviolet light absorber/stabilizer in animal tag and similar slow-release devices
Iron oxide (CAS Reg. No. 1309-37-1)		Colorant in pesticide formulations for animal tags
Iron oxide (Fe <sub>3</sub> O <sub>4</sub> ) (CAS Reg. No. 1317-61-9)	Not to exceed 0.2% of pesticide formulations	Colorant
Isobutane (CAS Reg. No. 75-28-5)	None	Propellant
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
Kerosene, U.S.P. reagent		Solvent, cosolvent
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, n-propyl ester, (S); (CAS Reg. No. 53651-69-7)		Solvent
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.
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		Solid diluent, carrier
Magnesium silicate, hydrated magnesium silicate		Do.
Methane sulfonic acid (CAS Reg. No. 75-75-2)	Not to exceed 3.0% by weight in pesticide formulation	Acidifying agent
Methyl alcohol		Solvent, cosolvent
Methyl <i>n</i> -amyl ketone (CAS Reg. No. 110-43-0)		Solvent, cosolvent
Methyl esters of higher fatty acids conforming to 21 CFR 573.640		Antidusting agent
Methyl- <i>p</i> -hydroxybenzoate (Methyl paraben)	Meets specifications of Food Chemicals Codex; not to exceed 0.1% in formulations	Preservative
Methyl isobutyl ketone		Solvent, cosolvent
2-methyl-2,4-pentanediol (CAS Reg. No. -107-41-5)	Without limitation	Growing crops and food animals

2-methyl-1,3-propanediol (CAS Reg. No. 2163-42-0)		Solvent, surfactant
Mineral oil, U.S.P., or conforming to 21 CFR 172.878 or 178.3620(a), (b)		Solvent, diluent
Montmorillonite-type clay		Solid diluent, carrier
Nonyl, decyl, and undecyl glycoside mixture with a mixture of nonyl, decyl, and undecyl oligosaccharides and related reaction products (primarily 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 <sub>9</sub> , 40% C <sub>10</sub> , and 40% C <sub>11</sub> with carbohydrates (average glucose to alkyl chain ratio 1.3 to 1.8)		Surfactant
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-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
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 4-15 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 4-15 or 30-90 moles		Surfactants, emulsifier, related adjuvants of surfactants.
Octadecyl 3,5-di- <i>tert</i> -butyl-4-hydroxyhydro cinnamate (CAS Reg. No. 2082-79-3)	Not more than 0.5% by weight of pesticide formulation	Thermal stabilizer/antioxidant in animal tag and similar slow-release devices
1-Octanal (CAS Reg. No. 124-13-0)	Not more than 0.2% of the pesticide formulation	Odor masking agent
Octyl and decyl glucosides mixture with a mixture of octyl and decyl oligosaccharides and related reaction products (primarily <i>n</i> -decanol) produced as an aqueous-based liquid (68-72% solids) from the reaction of straight chain alcohols (C <sub>8</sub> (45%), C <sub>10</sub> ) with anhydrous glucose		Thermal stabilizer/antioxidant in animal tag and similar slow-release devices
Octyl epoxytallate (CAS Reg. No. 61788-72-5)		Plasticizer, component animal tag

Oleic acid, conforming to 21 CFR 172.862 (CAS Reg. No. 112-80-1)		Defoaming agent
$\alpha$ -Oleoyl- $\omega$ -hydroxypoly(oxyethylene), average molecular weight (in amu) of 600		Emulsifier
$\alpha$ -Oleoyl- $\omega$ -(oleyloxy)poly(oxyethylene) derived from $\alpha$ -hydro- $\omega$ -hydroxypoly(oxyethylene), molecular weight (in amu) 600		Emulsifier, defoaming agent
Oxirane, 2-methyl-, polymer with oxirane, mono-2-propen-1-yl ether (CAS Reg. No. 9041-33-2)		
Paraffin waxes and hydrocarbon waxes; carboxypolymethylene resin; and paraffin waxes and hydrocarbon, oxidized, lithium salts	8002-74-2; 68153-22-0; 68649-48-9	
Pentaerythritol tetrakis (3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate) (CAS Reg. No. 6683-19-8)	Not to exceed 3% by weight of the pesticide formulation	Antioxidant, stabilizer.
Petroleum hydrocarbons, light, odorless, conforming to 21 CFR 172.884 or 178.3650		Solvent, diluent
Petroleum hydrocarbons, synthetic isoparaffinic, conforming to 21 CFR 172.882 or 178.3530		Do.
Phenol		Solvent, cosolvent
$\alpha$ -Pinene	Not more than 2% of formulation by weight	Stabilizer
Polyethylene (CAS Reg. No. 9002-88-4) conforming to 21 CFR 172.615		Component of plastic slow release tag
Polyethylene glycol [ $\alpha$ -hydro- $\omega$ -hydroxypoly(oxyethylene)]; mean molecular weight (in amu) 194 to 9,500 conforms to 21 CFR 178.3750		Surfactants, related adjuvants of surfactants
Poly(oxy-1,2-ethanediyl), $\alpha$ -acetyl-v é-(2-propen-1-yloxy)- (CAS Reg. No. 27252-87-5)		
Poly(oxy-1,2-ethanediyl), $\alpha$ -methyl-v é-(2-propen-1-yloxy)- (CAS Reg. No. 27252-80-8)		
Poly(oxy-1,2-ethanediyl), $\alpha$ -(3-(1,3,3,3-tetramethyl-1-((trimethylsilyl)oxy)disiloxanyl)propyl)- $\omega$ -hydroxy- (CAS Reg. No. 67674-67-3)		Surfactant
Potassium benzoate (Cas No. 582-25-2)	None	Preservative
Potassium hydroxide	Meeting Food Chemicals, Codex specifications	Neutralizer

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
1,2,3-Propanetriol, homopolymer diisooctadecanoate (CAS Reg. No. 63705-03-3)		Emulsifier
n-Propanol		Solvent, for blended emulsifiers
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
Propylene glycol		Solvent, cosolvent
Propylene glycol monomethyl ether		Deactivator, emmolient
Propyl gallate		Antioxidant
Propyl p-hydroxybenzoate (Propyl paraben)	Meets specifications of Food Chemicals Codex; not to exceed 0.1% in formulations	Preservative
Pyrophyllite		Solid diluent, carrier
Silica, hydrated silica		Anticaking agent, solid diluent, carrier
Silica aerogel (finely powdered microcellular silica foam having a minimum silica content of 89.5%)		Component of antifoaming agent
Soapstone		Solid diluent
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 1,4-dihexyl 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 dioctylsulfosuccinate		Surfactants, related adjuvants of surfactants
Sodium 1,4-dipentyl sulfosuccinate (CAS Reg. No. 922-80-5)		Surfactants, related adjuvants of surfactants
Sodium hydroxide		Neutralizer
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 <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 <sub>8</sub> -C <sub>18</sub> )-beta-iminodipropionic acid where the C <sub>8</sub> -C <sub>18</sub> 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 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
Sorbitan fatty acid esters (fatty acids limited to C <sub>12</sub> , C <sub>14</sub> , C <sub>16</sub> , and C <sub>18</sub> containing minor amounts of associated fatty acids) and poly(oxyethylene) derivatives of sorbitan fatty acid esters; the poly(oxyethylene) content averages 16-20 moles		Buffering agent; corrosion inhibition
Sorbitol		Antidusting agent.



Stearic acid (CAS Reg. No. 57-11-4)		Lubricant, component animal tag
$\alpha$ -Stearoyl- $\omega$ -hydroxypoly(oxyethylene), average molecular weight (in amu) of 600		Emulsifier
$\alpha$ -Stearoyl- $\omega$ -hydroxypoly(oxyethylene); the poly(oxyethylene) content averages 8, 9, or 40 moles; 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 8, 9, or 40		Surfactants; related adjuvants of surfactants
Sulfite liquors and cooking liquors, spent, oxidized (CAS Reg. No. 68514-09-0)		Surfactant, related adjuvants of surfactants
Sulfur (CAS Reg. No. 7704-34-9)		Stabilizer
Talc		Do.
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, coloring agent
Tetraethyl orthosilicate (CAS Reg. No. 78-10-4)	Not to exceed 2% by weight of pesticide formulations	Binder.
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.
Trans-1,3,3,3-tetrafluoroprop-1-ene (CAS Reg. No. 29118-24-9)		Propellant.
2,4,7,9-Tetramethyl-5-decyne-4,7-diol	Not more than 2.5% of pesticide formulation	Surfactants, related adjuvants of surfactants
Titanium dioxide (CAS Reg. No. 13463-67-7)		Pigment/colorant in pesticide formulations for animal tag

Toluenesulfonic acid and its ammonium, calcium, magnesium, potassium, sodium, and zinc salts		Do.
Triacetin (glyceryl triacetate)		Solvent, cosolvent
Trisodium phosphate		Precipitant, buffer, filler
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, C16-18, distn. residues (CAS Reg. No. 68603-17-8 & CAS Reg. No. 1190630-03-5), alkenes, C18-22, mixed with polyethylene, oxidized, hydrolyzed, distn. residues from C16-18 alcs. manuf. (CAS Reg. No. 1430895-61-6), alkenes, C18-22, mixed with polyethylene, oxidized, hydrolyzed, distn. residues from C20-22 alcs. manuf. (CAS Reg. No. 1430895-62-7)		Carrier/Adjuvant and Coating Agent/Binder.
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
Xylene		Solvent, cosolvent
Xylenesulfonic acid and its ammonium, calcium, magnesium, potassium, sodium, and zinc salts		Surfactants, related adjuvants of surfactants
Zein (CAS Reg. No. 9010-66-6)	Not more than 10,000 ppm in the pesticide formulation	Stabilizing agent.
Zinc oxide		Solid diluent, carrier
Zinc stearate, conforming to 21 CFR 182.5994 and 582.5994		Water repellent, dessicant, and coating agent.
Zinc stearate (CAS Reg. No. 557-05-1)		Water repellent, desiccant, and coating agent; stabilizer, component of plastic animal tag
Zinc sulfate (basic and monohydrate)		Water repellent, dessicant, and coating agent

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