

Quick Reference Table - Cosmetic Ingredient Review reports through June 2010

S - safe as used; SQ - safe with qualifications; I - insufficient data to support safety; Z - insufficient data, but no uses; U - unsafe

IJT - International Journal of Toxicology; JACT - Journal of the American College of Toxicology; JEPT - Journal of Environmental Pathology and Toxicology

Ingredient Name	Review Conclusion					Explanation	Concentration or other limitation on use for "SQ" conclusion	Safety concern for "U" conclusion	Journal Citation
	S	SQ	I	Z	U				
<b>A</b>						Use concentration for "S" conclusion 6			
Acacia Senegal Gum and Acacia Senegal Gum Extract	X					up to 9% for the gum and 0.001% for the			IJT 24(S3):75-118, 2005
Acacia Catechu Gum, Acacia Dealbata Leaf Extract, Acacia Dealbata Leaf Wax, and Acacia Farnesiana Gum				X					IJT 24(S3):75-118, 2005
Acacia Concinna Fruit Extract, Acacia Decurrens Extract, Acacia Farnesiana Flower/Stem Extract, Acacia Farnesiana Flower Wax, and Acacia Senegal Extract			X						IJT 24(S3):75-118, 2005
Acetamide MEA		X					7.5% for leave-on; safe for use in rinse-off products; but should contain no nitrosamine, free acetamide or nitrosating agents		JACT 12(3):225-36, 1993
Acetylated Lanolin	X					up to 7%			JEPT 4(4):63-92, 1980 confirmed 02/03 IJT 24(S1):2-10, 2005
Acetylated Lanolin Alcohol	X					up to 16%			JEPT 4(4):63-92, 1980 confirmed 02/03 IJT 24(S1):2-10, 2005
Acetyl Tributyl Citrate and Acetyl Triethyl Citrate	X					up to 7%			IJT 21(S2):1-17, 2002
Acetyl Trihexyl Citrate and Acetyl Trioctyl Citrate	X					not in current use1			IJT 21(S2):1-17, 2002
Achillea Millefolium Extract			X						IJT 20(S2):79-84, 2001
Acid Orange 3		X					0.2% in hair dyes		IJT 19(S1):1-9, 2000
Acid Violet 43		X							IJT 20(S3):1-6, 2001
Acrylates/Ammonium Methacrylate Copolymer		X					safe for use when formulated to avoid irritation		IJT 21(S3):1-50, 2002
Acrylates Copolymer		X					safe for use when formulated to avoid irritation		IJT 21(S3):1-50, 2002
Acrylates/Hydroxyesters Acrylates Copolymer		X					safe for use when formulated to avoid irritation		IJT 21(S3):1-50, 2002
Acrylates/PVP Copolymer		X					safe for use when formulated to avoid irritation		IJT 21(S3):1-50, 2002
Acrylates/Stearth-20 Methacrylate Copolymer		X					safe for use when formulated to avoid irritation		IJT 21(S3):1-50, 2002
Acrylates/Stearth-50 Acrylate Copolymer		X					safe for use when formulated to avoid irritation		IJT 21(S3):1-50, 2002
Acrylates/VA Copolymer		X					safe for use when formulated to avoid irritation		IJT 21(S3):1-50, 2002

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Adipic Acid Dihydrazide				X					JACT 13(3):154-6, 1994
Alcohol Denat. denatured with t-Butyl Alcohol, Denatonium Benzoate, Diethyl Phthalate, or Methyl Alcohol	X					up to 99%			IJT 27 (S1):1-43, 2008
Alcohol Denat. denatured with Quassin or Brucine				X					IJT 27 (S1):1-43, 2008
Aldioxa				X					JACT 12(3):237-42, 1993
Allantoin	X					up to 2%			IJT 29(Suppl. 2): 84-97, 2010
Allantoin Ascorbate	X					up to 0.05%			IJT 29(Suppl. 2): 84-97, 2010
Allantoin Biotin, Allantoin Galacturonic Acid	X					not in current use1			IJT 29(Suppl. 2): 84-97, 2010
Allantoin Glycyrrhetic Acid						not reported2			IJT 29(Suppl. 2): 84-97, 2010
Allantoin Panthenol						not reported2			IJT 29(Suppl. 2): 84-97, 2010
Allantoin Polygalacturonic Acid						not reported2			IJT 29(Suppl. 2): 84-97, 2010
Aloe Andongensis Extract and Aloe Andongensis Leaf Juice				X					IJT 26(S2):1-50, 2007
Aloe Arborescens Leaf Extract, Aloe Arborescens Leaf Juice, Aloe Arborescens Leaf Protoplasts, Aloe Ferox Leaf Extract, Aloe Ferox Leaf Juice, and Aloe Ferox Leaf Juice Extract			X						IJT 26(S2):1-50, 2007
Aloe Barbadosensis Flower Extract, Aloe Barbadosensis Leaf, Aloe Barbadosensis Leaf Extract, Aloe Barbadosensis Leaf Juice, Aloe Barbadosensis Polysaccharides, and Aloe Barbadosensis Leaf Water		X					safe as cosmetic ingredients in the practices of use and concentrations as described in this safety assessment, if anthraquinone levels in the ingredients do not exceed 50 ppm.		IJT 26(S2):1-50, 2007
Almond Meal	X					up to 27%			JACT 2(5):85-99, 1983 confirmed 11/02 IJT 24(S1):98-101, 2005
Alpha Hydroxy Acids,Glycolic Acid		X							IJT 17(S1):1-242, 1998
Alumina Magnesium Metasilicate	X					up to 0.01%			Final Report 09/09 available from CIR
Aluminum Calcium Sodium Silicate	X					up to 6%			Final Report 09/09 available from CIR
Aluminum Dimyristate (amended)	X								Final amended report 12/08 available from CIR
Aluminum Distearate	X					up to 5%			JACT 1(2):143-77, 1982 confirmed 11/01 IJT 22(S1):1-35, 2003
Aluminum Iron Silicates	X					not in current use1			Final Report 09/09 available from CIR

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Aluminum Silicate	X					up to 37% in dentifrices; up to 3%			IJT 22(S1):37-102, 2003
Aluminum Starch Octenylsuccinate		X					safe as used provided that established limitations imposed on heavy metal concentrations are not exceeded		IJT 21(S1):1-7, 2002
Aluminum Stearate	X					up to 8%			JACT 1(2):143-77, 1982 confirmed 11/01 IJT 22(S1):1-35, 2003
Aluminum Tristearate	X					up to 10%			JACT 1(2):143-77, 1982 confirmed 11/01 IJT 22(S1):1-35, 2003
Amino Bispropyl Dimethicone	X					not in current use1			IJT 22(S2):11-35, 2003
5-Amino-4-Chloro-o-Cresol	X					up to 2% in oxidative and non-oxidative			IJT 23(S2):1-22, 2004
5-Amino-6-Chloro-o-Cresol	X					up to 2% in oxidative and non-oxidative			IJT 23(S2):1-22, 2004
2-Amino-6-Chloro-4-Nitrophenol		X					up to 2% in hair dyes		IJT 16(S1):131-43,1997
2-Amino-6-Chloro-4-Nitrophenol HCl		X					up to 2% in hair dyes		IJT 16(S1):131-43,1997
4-Amino-m-Cresol	X					up to 0.7% in oxidative and non-oxidative hair dyes			IJT 23(S2):1-22, 2004
6-Amino-m-Cresol	X					up to 2.4% in oxidative and non-oxidative hair dyes			IJT 23(S2):1-22, 2004
6-Amino-o-Cresol		X					Safe as used in oxidative hair dyes, but the available data are insufficient to support the safety in non-oxidative hair dyes		IJT 23(S2):1-22, 2004
4-Amino-2-Hydroxytoluene	X					up to 2%			JACT 8(4):569-87, 1989 confirmed 04/06
Aminomethyl Propanediol (amended)	X					up to 2%			IJT 28 (S2):141-161 2009 JACT 9(2):203-28, 1990 (original report)
Aminomethyl Propanol (amended)	X					up to 7%			IJT 28 (S2):141-161 2009 JACT 9(2):203-28, 1990 (original report)
2-Amino-3-Nitrophenol	X					up to 2% in hair dyes			IJT 28(S3): 217-251, 2009
2-Amino-4-Nitrophenol	X					not reported2			IJT 28(S3): 217-251, 2009
2-Amino-5-Nitrophenol	X					not in current use1			IJT 28(S3): 217-251, 2009
2-Amino-4-Nitrophenol Sulfate	X					not in current use1			IJT 28(S3): 217-251, 2009

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4-Amino-2-Nitrophenol				X					IJT 28(S3): 217-251, 2009
4-Amino-3-Nitrophenol	X					up to 9% in hair dyes			IJT 28(S3): 217-251, 2009
m-Aminophenol	X					up to 5%			JACT 7(3):279-333, 1988 confirmed 09/05
o-Aminophenol	X					up to 1%			JACT 7(3):279-333, 1988 confirmed 09/05
p-Aminophenol	X					up to 1%			JACT 7(3):279-333, 1988 confirmed 09/05
Aminopropyl Dimethicone	X					not in current use1			IJT 22(S2):11-35, 2003
Ammonium Acrylates Copolymer		X					safe for use when formulated to avoid irritation		IJT 21(S3):1-50, 2002
Ammonium Bisulfite	X					up to 32%			IJT 22(S2):63-88, 2003
Ammonium Cocomonoglyceride Sulfate (amended)	X					not in current use1			Amended Final Report 09/08 Available from CIR
Ammonium Coco-Sulfate and Ammonium Myristyl Sulfate	X					not in current use1			IJT 29(S2): 115-132, 2010
Ammonium Cocoyl Sarcosinate		X					safe as used in rinse-off products; but 5% in leave-on products. Should not be used in products where N-nitroso compounds may be formed. Insufficient data to determine safety in products where these ingredients are likely to be inhaled.		IJT 20(S1):1-14, 2001
Ammonium Cumenesulfonate	X					not in current use1			Final Report 09/09 available from CIR
Ammonium Dodecylbenzenesulfonate (amended)		X					safe for use in cosmetics when formulated to be non-irritating		Amended final report 03/09 - Available from CIR
Ammonium Glycolate and Ammonium Lactate, Glycolic Acid		X							IJT 17(S1):1-242, 1998
Ammonium Glycyrrhizate	X					up to 5%			IJT 26(S2):79-112, 2007
Ammonium Laureth Sulfate	X					up to 36%			JACT 2(5):1-34, 1983 confirmed 11/02 IJT 24(S1):85-89, 2005
Ammonium Lauroyl Sarcosinate		X					safe as used in rinse-off products; but 5% in leave-on products. Should not be used in products where N-nitroso compounds may be formed. Insufficient data to determine safety in products where these ingredients are likely to be inhaled.		IJT 20(S1):1-14, 2001
Ammonium Lauryl Sulfate		X					safe for use in rinse-off products; but 1% for leave-on		JACT 2(7):127-81, 1983 confirmed 06/02 IJT 24(S1):89-98, 2005
Ammonium Persulfate		X					safe as oxidizing agents in hair colorants and lighteners designed for brief, discontinuous use followed by thorough rinsing from hair and skin		IJT 20(S3):7-21, 2001

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Ammonium Polyacrylate		X					safe for use when formulated to avoid irritation		IJT 21(S3):1-50, 2002
Ammonium Stearate	X					up to 10%			JACT 1(2):143-77, 1982 confirmed 11/01 IJT 22(S1):1-35, 2003
Ammonium Styrene/Acrylates Copolymer		X					safe for use when formulated to avoid irritation		IJT 21(S3):1-50, 2002
Ammonium Sulfite	X					not in current use1			IJT 22(S2):63-88, 2003
Ammonium Tallate	X					not in current use1			IJT 28(S3):252-258, 2009
Ammonium Thioglycolate		X					in hair straighteners, permanent waves, tonics, dressings, etc., wave sets, other non-coloring hair products, and hair dyes and colors; safe at 15.2% (as thioglycolic acid); hairdressers should avoid skin contact and minimize consumer skin exposure		IJT 28(S3):68-133, 2009 JACT 10(1):135-92, 1991 (original report)
Ammonium VA/Acrylates Copolymer		X					safe for use when formulated to avoid irritation		IJT 21(S3):1-50, 2002
Ammonium Xylenesulfonate	X					up to 3%			Final Report 09/09 available from CIR
Amodimethicone	X					up to 3%			IJT 22(S2):11-35, 2003
Amodimethicone Hydroxystearate	X					not in current use1			IJT 22(S2):11-35, 2003
AMP-Acrylates Copolymer		X					safe for use when formulated to avoid irritation		IJT 21(S3):1-50, 2002
Amyl Acetate	X					up to 10%			JACT 7(6):705-19, 1988
Arachideth-20 (Alkyl PEG Ethers report)									Tentative Amended Report 06/10 Available from CIR
Arachidonic Acid			X						JACT 12(5):481-559, 1993
Arachidyl Propionate	X					up to 10%			JACT 9(2):143-52, 1990 confirmed 06/06
Arachis Hypogaea (Peanut) Flour				X					IJT 20(S2):65-77, 2001
Arachis Hypogaea (Peanut) Oil	X					up to 25%			IJT 20(S2):65-77, 2001
Arnica Montana Extract and Arnica Montana			X						IJT 20(S2):1-11, 2001
L-Ascorbic Acid	X					up to 10%			IJT 24(2):51-111, 2005
Ascorbyl Dipalmitate	X					not in current use1			IJT 18(S3):1-26, 1999
Ascorbyl Palmitate	X					up to 0.2%			IJT 18(S3):1-26, 1999
Ascorbyl Stearate	X					not in current use1			IJT 18(S3):1-26, 1999
Astragalus Gummifer Gum	X					up to 3%			JACT 6(1):1-22, 1987 confirmed 09/04
Attapulgate	X					up to 8%			IJT 22(S1):37-102, 2003

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Avocado Oil	X					up to 23%			JEPT 4(4):93-103, 1980 confirmed 06/01 IJT 22(S1):1-35, 2003
Azulene			X						IJT 18(S3):27-32, 1999
<b>B</b>									
Basic Blue 99	X					up to 2%			IJT 26(S2):51-63, 2007
Basic Violet 1				X					IJT 28(S3):193-204. 2009
Basic Violet 3				X					IJT 28(S3):193-204. 2009
Basic Violet 4				X					IJT 28(S3):193-204. 2009
Beeswax	X					up to 56%			JACT 3(3):1-41, 1984 confirmed 06/03 IJT 24(S1):48-52, 2005
Behenoxy Dimethicone	X					up to 3%			IJT 22(S2):11-35, 2003
Beheneth-2, -5, -10, -15, -20, -25, -30 (Alkyl PEG Ethers report)									Tentative Amended Report 06/10 Available from CIR
Behenyl Alcohol	X					up to 50%			JACT 7(3):359-413, 1988 confirmed 12/05
Bentonite	X					12-80% in mud packs; up to 8% for			IJT 22(S1):37-102, 2003
Benzaldehyde	X					up to 0.5%			IJT 25(S1):11-27
Benzalkonium Chloride		X					0.1% free active ingredient		JACT 8(4):589-625, 1989 confirmed 06/06
Benzethonium Chloride		X					0.5% skin; 0.02% eye area		JACT 4(5):65-106, 1985 confirmed 03/04 IJT 25(S2), 2006
Benzoic Acid		X					safe for use in all cosmetic formulations up to 5%; insufficient data to support safety in products which are inhaled		IJT 20(S3):23-50, 2001 reopened 06/10
Benzophenone-1	X					up to 2%			JACT 2(5):35-77, 1983 confirmed 09/02 IJT 24(S1):10-18, 2005
Benzophenone-2	X					up to 6%			JACT 2(5):79-84, 1983 confirmed 09/02 IJT 24(S1):10-18, 2005
Benzophenone-3	X					up to 7%			JACT 2(5):35-77, 1983 confirmed 09/02 IJT 24(S1):10-18, 2005
Benzophenone-4	X					up to 2.5%			JACT 2(5):79-84, 1983 confirmed 09/02 IJT 24(S1):10-18, 2005

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Benzophenone-5, -6	X					up to 0.3%			JACT 2(5):35-77, 1983 confirmed 09/02 IJT 24(S1):10-18, 2005
Benzophenone-8	X					up to 0.2%			JACT 2(5):79-84, 1983 confirmed 09/02 IJT 24(S1):10-18, 2005
Benzophenone-9	X					up to 0.4%			JACT 2(5):79-84, 1983 confirmed 09/02 IJT 24(S1):10-18, 2005
Benzophenone-11	X					up to 0.2%			JACT 2(5):79-84, 1983 confirmed 09/02 IJT 24(S1):10-18, 2005
Benzoxiquine				X					IJT 16(S1):117-22,1997
Benzyl Alcohol		X					safe for use in all cosmetic formulations up to 5%; safe for use in hair dyes up to 10%; insufficient data to support safety in products which are inhaled		IJT 20(S3):23-50, 2001 reopened 06/10
Benzylparaben (amended)	X					up to 0.4% if used alone; parabens mixture up to 0.8%			IJT 27(S4): 1-82, 2008 JACT 5 (5):301-307, 1986 (original report)
BHA	X					up to 0.2%			JACT 3(5):83-146, 1984
BHT	X					up to 0.5%			IJT 21(S2):19-94, 2002
Biotin	X					up to 1%			IJT 20(S4):1-12, 2001
Bisabolol	X					up to 1%			IJT 18(S3):33-40, 1999
N,N-Bis(2-Hydroxyethyl)-p- Phenylenediamine Sulfate	X					up to 5%			JACT 11(1):129-43, 1992
Boric Acid		X					5%; but not safe for use on infant or injured skin		JACT 2(7):87-125, 1983 confirmed 06/03
5-Bromo-5-Nitro-1,3-Dioxane		X					0.1%; but should not be used under circumstances where its actions with amines or amides can result in the formation of nitrosamines or nitrosamides		JACT 9(2):279-88, 1990
2-Bromo-2-Nitropropane-1,3-Diol		X					0.1%; may contribute to endogenous nitrosamine formation; but should not be used under circumstances where its actions with amines or amides can result in the formation of nitrosamines or nitrosamides		JACT 3(3):139-55, 1984 (Addendum) JEPT 4(4):47-61, 1980 (Original report) confirmed 09/03 IJT 25(S2),
Brucine				X					IJT 27 (S1):1-43, 2008
Brucine Sulfate			X						IJT 27 (S1):1-43, 2008
n-Butane (aka Butane)	X					up to 92%			JACT 1(4):127-42, 1982 confirmed 06/02 IJT 24(S1):52-55, 2005
Buteth-3 (Alkyl PEG Ethers report)									Tentative Amended Report 06/10 Available from CIR
Butoxyethanol		X					up to 10% in hair and nail products		JACT 15(6):462-526, 1996 confirmed 02/02 IJT 24(S1):18-20, 2005

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Butyl Acetate	X					> 50%			JACT 8(4):681-705, 1989 confirmed 08/06
n-Butyl Alcohol	X					up to 15% in nail products, up to 0.002% in other products			IJT 27(S2): 53-69, 2008 JACT 6(3):403-25, 1987 (Original Report)
t-Butyl Alcohol (Amended)	X					up to 0.5%			IJT 24(2):1-20, 2005 (Amended) JACT 8(4):627-41, 1989 (Original Report)
Butylated Hydroxyanisole (now BHA)	X					up to 0.2%			JACT 3(5):83-146, 1984 confirmed 09/03 IJT 25(S2), 2006
Butyl Benzyl Phthalate	X					less than 1%			JACT 11(1):1-23, 1992
Butylene Glycol	X					up to 89%			JACT 4(5):223-48, 1985 confirmed 02/04 IJT 25(S2), 2006
Butylene Glycol Cocoate, Cocos Nucifera, etc.	X					up to 2%			Amended Final Report 09/08 - available from CIR
Butylene Glycol Diisononanoate	X					17%			Final Safety Assessment 06/10 Available from CIR
Butyl Ester of PVM/MA Copolymer	X					up to 14%			Amended Final Report 06/09 Available from CIR JACT 12(3):243-56, 1993 (original report)
Butyl Glycolate and Butyl Lactate		X							IJT 17(S1):1-242, 1998
t-Butyl Hydroquinone (now TBHQ) (Amended)		X					0.1%		JACT 10(1):1-7, 1991 JACT 5(5):329-51, 1986 (Original report)
Butyl Methacrylate and t-Butyl Methacrylate		X					safe in nail enhancement products when skin contact is avoided; products containing this ingredient should be accompanied with directions to avoid skin contact because of the sensitizing potential of methacrylates		IJT 24(S5):53-100, 2005
Butyl Myristate (amended)	X					up to 50%			Amended report 12/08 available from CIR JACT 9(2):247-58, 1990 (Original report)
Butyloctyl Salicylate		X					safe when formulated to avoid irritation and to avoid increasing sun sensitivity, or when increased sun sensitivity would be expected, directions for use include the daily use of sun protection.		IJT 22(3):1-108
Butylparaben (amended)	X					up to 0.4% if used alone; parabens mixture up to 0.8%			IJT 27(S4): 1-82, 2008 JACT 3(5):147-209, 1984 (original report)



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Butyl Stearate	X					up to 9%			JACT 4(5):107-46, 1985 confirmed 06/03 IJT 24(S1):21-25, 2005
Butyl Thioglycolate		X					in hair straighteners, permanent waves, tonics, dressings, etc., wave sets, other non-coloring hair products, and hair dyes and colors; safe at 15.2% (as thioglycolic acid); hairdressers should avoid skin contact and minimize consumer skin exposure		IJT 28(S3):68-133, 2009
<b>C</b>									
C30-45 Alkyl Dimethicone	X					2%			IJT 22(S2):11-35, 2003
C24-28 Alkyl Methicone	X					not in current use1			IJT 22(S2):11-35, 2003
C30-45 Alkyl Methicone	X					not in current use1			IJT 22(S2):11-35, 2003
C12-15 Alkyl Salicylate		X					safe when formulated to avoid irritation and to avoid increasing sun sensitivity, or when increased sun sensitivity would be expected, directions for use include the daily use of sun protection.		IJT 22(3):1-108
Calcium Ascorbate	X					not in current use1			IJT 24(2):51-111, 2005
	X					not in current use1			Amended safety assessment 03/09 - Available from CIR
Calcium Disodium EDTA	X					not in current use1			IJT 21(S2):95-142, 2002
Calcium Dodecylbenzenesulfonate (amended)		X					safe for use in cosmetics when formulated to be non-irritating		Amended safety assessment 03/09 - Available from CIR
Calcium Glycolate and Calcium Lactate		X					Glycolic and Lactic Acid, their common salts and their simple esters, are safe for use in cosmetic products at concentrations ≤10%, at final formulation pH ≥3.5, when formulated to avoid increasing sun sensitivity or when directions for use include the daily use of sun protection. These ingredients are safe for use in salon products at concentrations ≤30%, at final formulation pH ≥3.0, in products designed for brief, discontin-uous use followed by thorough rinsing from the skin, when applied by trained professionals, and when application is accompanied by directions for the daily use of sun protection.		IJT 17(S1):1-242, 1998
Calcium Salicylate		X					safe when formulated to avoid irritation and to avoid increasing sun sensitivity, or when increased sun sensitivity would be expected, directions for use include the daily use of sun protection.		IJT 22(3):1-108
Calcium Silicate	X					up to 10%			IJT 22(S1):37-102, 2003

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Calcium/Sodium PVM/MA Copolymer (amended)	X					not reported <sup>2</sup>			Amended Final Report 06/09 Available from CIR JACT 12(3):243-56, 1993 (original report)
Calcium Stearate	X					up to 23%			JACT 1(2):143-77, 1982 confirmed 11/01 IJT 22(S1):1-35, 2003
Calcium Thioglycolate		X							IJT 28(S3):68-133, 2009
Calcium Xylenesulfonate	X					not in current use <sup>1</sup>			Final Report 09/09 available from CIR
Calendula Officinalis Flower Extract (amended)	X					up to 6%			Amended Safety Assessment
Calendula Officinalis Flower Oil (amended)	X					up to 0.1%			Amended Safety Assessment 03/09 - Available from CIR
Calendula Officinalis Extract, Calendula Officinalis Flower, and Calendula Officinalis Seed Oil (amended)	X					not reported <sup>2</sup>			Amended Safety Assessment 03/09 - Available from CIR IJT 20(S2):13-20, 2001 (original report)
Candelilla (Euphorbia Cerifera) Wax	X					up to 27%			JACT 3(3):1-41, 1984 confirmed 06/03
Capryleth-4, -5 (Alkyl PEG Ethers report)									Tentative Report 06/10 Available from CIR
Caprylic/Capric/Coco Glycerides (amended)	X					up to 4%			Amended Final Report 09/08 - available from CIR
Caprylic/Capric Triglyceride	X					up to 84%			JEPT 4(4):105-20, 1980 confirmed 06/01 IJT 22(S1):1-35, 2003
Capryloyl Salicylic Acid		X					safe when formulated to avoid irritation and to avoid increasing sun sensitivity, or when increased sun sensitivity would be expected, directions for use include the daily use of sun protection.		IJT 22(S3):1-108, 2003
Caprylyl Glycol and Other 1,2-Glycols									Scientific Literature Review 04/10 Available from CIR
Capsicum Annum Extract, Capsicum Annum Fruit Extract, Capsicum Annum Fruit Powder. Capsicum Annum Resin, Capsicum Frutescens Fruit, Capsicum Frutescens Fruit Extract, Capsicum Frutescens Resin, and Capsaicin		X					safe in the practices of use and concentration described in the safety assessment, when formulated not to be irritating		IJT 26(S1):3-106, 2007
Captan			X						JACT 8(4):643-80, 1989
Carbomer-910, -962	X					not in current use <sup>1</sup>			JACT 1(2):109-41, 1982 confirmed 11/02 IJT 22(S1):1-35, 2003

Ingredient Name	Review Conclusion					Explanation	Concentration or other limitation on use for "SQ" conclusion	Safety concern for "U" conclusion	Journal Citation
	S	SQ	I	Z	U				
						Use concentration for "S" conclusion 6			
Carbomer-934, -934P, -940, -941	X					up to 2%			JACT 1(2):109-41, 1982 confirmed 11/02 IJT 22(S1):1-35, 2003
Carboxymethyl Hydroxyethylcellulose	X					up to 3%			Amended safety assessment 03/09 - Available from CIR
Carnauba (Copernicia Cerifera) Wax	X					up to 20%			JACT 3(3):1-41, 1984 confirmed 06/03
Carthamus Tinctorius (Safflower) Seed Oil	X					up to 84%			JACT 4(5):171-97, 1985 confirmed 02/04
Carvacrol		X					up to 0.5%		IJT 25(S1):29-127, 2006
Cellobiose Octanonamoate	X					not in current use1			Final Safety Assessment 06/10 Available from CIR
Cellulose (amended)	X					up to 88%			Amended safety assessment 03/09 - Available from CIR
Cellulose Acetate (amended)	X					up to 2%			Amended safety assessment 03/09 - Available from CIR
Cellulose Acetate Butyrate (amended)						up to 15%			Amended safety assessment 03/09 - Available from CIR
Cellulose Gum (amended)	X					up to 20%			Amended safety assessment 03/09 - Available from CIR JACT 5(3):1-59, 1986 (original report)
Ceresin	X					up to 20%			JACT 3(3):43-99, 1984 confirmed 06/03 IJT 24(S1):67-74, 2005
Cetareth-2, -3, -4, -5, -6, -7, -8, -9, -10, -11, -12, -13, -14, -15, -16, -17, -18, -20, -22, -23, -24, -25, -27, -28, -29, -30, -33, -34, -40, -50, -55, -60, -80, -100 (Alkyl PEG Ethers report)		X					Cetareths should not be used on damaged skin or under conditions where N-nitroso compounds can form.		IJT 18(S3):41-49, 1999 Tentative Amended Report 06/10 Available from CIR
Cetearyl Alcohol	X					up to 25%			JACT 7(3):359-413, 1988 confirmed 12/05
Cetearyl Isononanoate	X					up to 50%			Final Safety Assessment 06/10 Available from CIR
Cetearyl Methicone	X					up to 1%			IJT 22(S2):11-35, 2003
Cetearyl Nonanoate	X					up to 3%			Final Safety Assessment 06/10 Available from CIR
Cetearyl Octanoate (aka Cetearyl Ethylhexanoate)	X					up to 25%			JACT 1(4):81-92, 1982 confirmed 06/03 IJT 25(S2), 2006

Ingredient Name	Review Conclusion					Explanation	Concentration or other limitation on use for "SQ" conclusion	Safety concern for "U" conclusion	Journal Citation
	S	SQ	I	Z	U				
						Use concentration for "S" conclusion 6			
Ceteth-1, -3, -4, -6, -15, -45 (Alkyl PEG Ethers report)	X					not in current use1			IJT 18(2):1-8, 1999 Tentative Amended Report 06/10 Available from CIR
Ceteth-2, -16 (Alkyl PEG Ethers report)	X					up to 5%			IJT 18(2):1-8, 1999 Tentative Amended Report 06/10 Available from CIR
Ceteth-5, -12, -14, -24, -25, -30 (Alkyl PEG Ethers report)	X					up to 2.5%			IJT 18(2):1-8, 1999 Tentative Amended Report 06/10 Available from CIR
Ceteth-10 (Alkyl PEG Ethers report)	X					up to 0.15%			IJT 18(2):1-8, 1999 Tentative Amended Report 06/10 Available from CIR
Ceteth-20 (Alkyl PEG Ethers report)	X					up to 1%			IJT 18(2):1-8, 1999 Tentative Amended Report 06/10 Available from CIR
Cetethyl Morpholinium Ethosulfate			X						IJT 20(S3):99-102, 2001
Cetoleth-2, -4, -5, -6, -10, -11, -15, -18, -20, -22, -24, -25, -30 (Alkyl PEG Ethers report)									Tentative Amended Report 06/10 Available from CIR

Ingredient Name	Review Conclusion					Explanation	Concentration or other limitation on use for "SQ" conclusion	Safety concern for "U" conclusion	Journal Citation
	S	SQ	I	Z	U				
Cetrimonium Bromide, Cetrimonium Chloride, Behentrimonium Chloride, Behentrimonium Methosulfate, Ceteartrimonium Chloride, Cetrimonium Methosulfate, Cocotrimonium Chloride, Cocotrimonium Methosulfate, Dodecyhexadecyltrimonium Chloride, Hydrogenated Palmtrimonium Chloride, Hydrogenated Tallowtrimonium Chloride, Laurtrimonium Bromide, Laurtrimonium Chloride, Myrtrimonium Bromide, Octacosatrimonium Chloride, Octyldodecyltrimonium Chloride, Soytrimonium Chloride Steartrimonium Bromide, Steartrimonium Chloride, Steartrimonium Methosulfate, Tallowtrimonium Chloride, Acetyl Carnitine, Acetyl Carnitine HCl, Carnitine Carnitine HCl, Carnitine Hydroxycitrate, Carnitine PCA, Choline Chloride, Cocoylcholine Methosulfate, Lauroyl Ethyltrimonium Methosulfate, Myristoyl Ethyltrimonium Methosulfate, Palmitoyl Ethyltrimonium Methosulfate, Palmitoyl Carnitine, Stearoxypropyltrimonium Chloride, Stearoyl Ethyltrimonium Methosulfate, Acrylamide/Ethyltrimonium Chloride Acrylate/Ethalkonium Chloride Acrylate Copolymer, Acrylamidopropyltrimonium Chloride/Acrylamide Copolymer, Acrylamidoroyltrimonium Chloride/Acrylates Copolymer, Polyquaternium-37, -14, 28, 32, 33, 35, 36, 45, 47, 48, 53, 63, 73, 91 (Trimoniums)		X				Use concentration for "S" conclusion 6	safe as used in rinse-off products; but < 0.25% in leave-on products	IJT 16(S3):195-220,1997 Tentative Amended Report 06/10	
Cetyl Alcohol	X					up to 50%		JACT 7(3):359-413, 1988 confirmed 12/05	
Cetyl Dimethicone	X					up to 10%		IJT 22(S2):11-35, 2003	
Cetyl Esters	X					up to 7%		IJT 16(S1):123-30,1997	
Cetyl Hydroxyethylcellulose (amended)	X					up to 2%		Amended safety assessment 03/09 - Available from CIR	
Cetyl Isononanoate	X					up to 4%		Final Safety Assessment 06/10 Available from CIR	
Cetyl Lactate (Amended)		X						IJT 17(S1):1-242, 1998 JACT 1(2):97-107, 1982 (Original Report)	
Cetyl Palmitate	X					up to 11%		JACT 1(2):13-35, 1982 confirmed 09/01 JT 24(S1):28-32, 2005	
Cetyl Ricinoleate	X					up to 10%		IJT 26(S3) 2007	

Ingredient Name	Review Conclusion					Explanation	Concentration or other limitation on use for "SQ" conclusion	Safety concern for "U" conclusion	Journal Citation
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						Use concentration for "S" conclusion 6			
Cetyl Stearate	X					up to 15%			JACT 4(5):107-46, 1985 confirmed 06/03 IJT 24(S1):21-25, 2005
Chlorhexidine		X					.14%		JACT 12(3):201-23, 1993 IJT 18(2):69, 1999 (Note)
Chlorhexidine Diacetate		X					.19%		JACT 12(3):201-23, 1993 IJT 18(2):69, 1999 (Note)
Chlorhexidine Digluconate		X					.20%		JACT 12(3):201-23, 1993 IJT 18(2):69, 1999 (Note)
Chlorhexidine Dihydrochloride		X					.16%		JACT 12(3):201-23, 1993 IJT 18(2):69, 1999 (Note)
Chloroacetamide					X			sensitization	JACT 10(1):21-32, 1991
4-Chloro-2-Aminophenol		X						Safe use used in oxidative hair dyes, but the available data are insufficient to support the safety in non-oxidative hair dyes	IJT 23(S2):1-22, 2004
p-Chloro-m-Cresol (amended)		X					up to 5%		IJT 25(S1):29-127, 2006 IJT 16(S3):235-68,1997 (Original Report)
Chlorophene				X					IJT 23(S1):1-27 2004
2-Chloro-p-Phenylenediamine	X					up to 0.1%			JACT 11(4):521-530, 1992
2-Chloro-p-Phenylenediamine Sulfate	X					up to 1.0%			JACT 11(4):521-530, 1992
4-Chlororesorcinol	X					1% in hair dyes			JACT 15(4): 284-94, 1996
Chlorothymol (amended)		X					up to 0.5%		IJT 25(S1):29-127, 2006
Chloroxylenol	X					up to 0.5%			JACT 4(5):147-69, 1985 confirmed 02/04 IJT 25(S2), 2006
Cholesterol	X					up to 3%			JACT 5(5):491-516, 1986 confirmed 12/04 IJT 25(S2), 2006
Cholesteryl Nonanoate	X					up to 30%			Final Safety Assessment 06/10 Available from CIR
Cholet-24	X					up to 1.3%			JACT 1(4):119-26, 1982 confirmed 06/02 IJT 24(S1):32-34, 2005
Coal Tar			X						Final Report 3/04 Available from CIR

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Cocamide DEA (Amended)		X					safe as used in rinse-off products; but < 10% in leave-on products; and should not be used in cosmetic products in which N-nitroso compounds are formed		JACT 15(6):527-42, 1996 JACT 5(5):415-54, 1986 (Original report)
Cocamide MEA		X					safe as used in rinse-off products and safe at concentrations up to 10% in leave-on products; should not be used as an ingredient in cosmetic products containing N-nitrosating agents, or in product formulations intended to be aerosolized		IJT 18(2):9-16, 1999
Cocamidopropylamine Oxide		X					safe for use in rinse-offs (up to 4%); insufficient data for leave-ons		IJT 27(S1): 55-62, 2008 IJT 19(2):1-5, 2000 (original)
Cocamidopropyl Betaine		X					safe as used in rinse-off products; but 3% in leave-on products		JACT 10(1):33-52, 1991 reopened 04/07 new SLR
Coceth-3, -5, -6, -7, -8, -10, -20, -25 (Alkyl PEG Ethers report)									Tentative Amended Report 06/10 Available from CIR
Cocoamphoacetate	X					up to 6%			JACT 9(2):121-42, 1990 confirmed 04/06
Cocoamphodiacetate	X					up to 12%			JACT 9(2):121-42, 1990 confirmed 04/06
Cocoamphodipropionate	X					up to 15%			JACT 9(2):121-42, 1990 confirmed 04/06
Cocoamphopropionate	X					up to 10%			JACT 9(2):121-42, 1990 confirmed 04/06
Cocoglycerides (amended)	X					up to 14%			Amended Final Report 09/08 - available from CIR
Coconut Acid (amended)	X					up to 14%			Amended Final Report 09/08 - available from CIR JACT 5(3):103-21, 1986 (original report)
Coconut Alcohol (amended)	X					up to 0.9%			Amended Final Report 09/08 - available from CIR
Coconut Oil Decyl Esters (amended)	X					not in current use1			Amended Final Report 09/08 - available from CIR
Cocos Nucifera (Coconut) Oil (amended)	X					up to 80%			Amended Final Report 09/08 - available from CIR JACT 5(3):103-21, 1986 (original report)

Ingredient Name	Review Conclusion					Explanation	Concentration or other limitation on use for "SQ" conclusion	Safety concern for "U" conclusion	Journal Citation
	S	SQ	I	Z	U				
						Use concentration for "S" conclusion 6			
Cocoyl Sarcosine		X					safe as used in rinse-off products; but 5% in leave-on products. Should not be used in products where N-nitroso compounds may be formed. Insufficient data to determine safety in products where these ingredients are likely to be inhaled.		IJT 20(S1):1-14, 2001
Copernicia Cerifera (Carnauba) Wax	X					up to 20%			JACT 3(3):1-41, 1984 confirmed 06/03 IJT 24(S1):48-52, 2005
Corn Acid, Corn Glycerides	X					not in current use1			Final Report 09/08 available from CIR
Corylus Americana (Hazel) Leaf Extract					X				IJT 20(S1):15-20, 2001
Corylus Americana (Hazel) Seed Extract				X					IJT 20(S1):15-20, 2001
Corylus Americana (Hazel) Seed Oil				X					IJT 20(S1):15-20, 2001
Corylus Avellana (Hazel) Leaf Extract				X					IJT 20(S1):15-20, 2001
Corylus Avellana (Hazel) Seed Extract					X				IJT 20(S1):15-20, 2001
Corylus Avellana (Hazel) Seed Oil				X					IJT 20(S1):15-20, 2001
Corylus Rostrata (Hazel) Leaf Extract					X				IJT 20(S1):15-20, 2001
Corylus Rostrata (Hazel) Seed Extract					X				IJT 20(S1):15-20, 2001
Cottonseed Acid, Cottonseed Glyceride, and Cottonseed (Gossypium) Oil		X							IJT 20(S2):21-29, 2001
C9-11 Pareth-3, -4, -6, -8; C9-15 Pareth-8; C10-16 Pareth-1, -2; C11-13 Pareth 6, -9, -10; C11-15 Pareth-3, -5, -7, -9, -12, -15, -20, -30, -40; C11-21 Pareth-3, -10; C12-13 Pareth-2, -3, -4, -5, -6, -7, -9, -10, -15, -23; C12-14 Pareth-3, -5, -7, -9, -12; C12-15 Pareth-2, -3, -4, -5, -7, -9, -10, -11, -12; C12-16 Pareth-5, -7, -9; C13-15 Pareth-21; C14-15 Pareth-4, -7, -8, -11, -12, -13; C20-22 Pareth-30; C20-40 Pareth-3, -10, -24, -40, -95; C22-24 Pareth-33; C30-50 Pareth-3, -10, -40; C40-60 Pareth-3, -10; C11-15 Sec-Pareth-12; C12-14 Sec-Pareth-3, -5, -7, -8, -9, -12, -15, -20, -30, -40, -50 (Alkyl PEG Ethers report)									Tentative Amended Report 06/10 Available from CIR
m-Cresol and o-Cresol		X					up to 0.5%		IJT 25(S1):29-127, 2006 (Amended Report)
p-Cresol (amended)					X				IJT 25(S1):29-127, 2006
Cycloheptasiloxane (amended)	X					not reported2			Amended Report 12/09 available from CIR
Cyclohexasiloxane(amended)	X					up to 48%			Amended Report 12/09 available from CIR



Ingredient Name	Review Conclusion					Explanation	Concentration or other limitation on use for "SQ" conclusion	Safety concern for "U" conclusion	Journal Citation
	S	SQ	I	Z	U				
						Use concentration for "S" conclusion 6			
Cyclohexyl Methacrylate		X					safe in nail enhancement products when skin contact is avoided; products containing this ingredient should be accompanied with directions to avoid skin contact because of the sensitizing potential of methacrylates		IJT 24(S5):53-100, 2005
Cyclomethicone (amended)	X					up to 89%			Amended Report 12/09 available from CIR JACT 10(1):9-19, 1991 (original report)
Cyclopentasiloxane (amended)	X					up to 93%			Amended Report 12/09 available from CIR
Cyclotetrasiloxane (amended)	X					up to 28%			Amended Report 12/09 available from CIR
o-Cymen-5-ol (Amended)		X					up to 0.5%		IJT 25(S1):29-127, 2006 JACT 3(3):131-55, 1984 (Original Report)
<b>D</b>									
DEA-Dodecylbenzenesulfonate (amended)		X					safe for use in cosmetics when formulated to be non-irritating		Amended safety assessment 03/09 - Available from CIR
Deceth-3, -4, -5, -6, -7, -8, -9, -10 (Alkyl PEG Ethers report)									Tentative Amended Report 06/10 Available from CIR
Decyl Cocoate (amended)	X					not in current use1			Amended Final Report 09/08 - available from CIR
Decyl Oleate	X					up to 88%			JACT 1(2):85-95, 1982 confirmed 11/01 IJT 22(S1):1-35, 2003
Decyltetradeceth-5, -10, -15, -20, -25, -30 (Alkyl PEG Ethers report)									Tentative Amended Report 06/10 Available from CIR
Dehydroacetic Acid	X					up to 0.7%			JACT 4(3):123-59, 1985 confirmed 11/03 IJT 25(S2), 2006
Denatonium Benzoate	X					1/16 avoidupois ounce per 100 gal			IJT 27 (S1):1-43, 2008
Deoxyglutamyl Fructose			X						IJT 19(S1):11-12, 2000
2,4-Diaminophenol and its HCl salt (aka 2,4-Diaminophenol Dihydrochloride)		X					0.2% as the free base		JACT 13(5):330-43, 1994 confirmed 06/09
2,4-Diaminophenoxyethanol HCl and 2,4-Diaminophenoxyethanol Sulfate (amended)	X					up to 2%			Final Amended Report 12/07 Available from CIR JACT 10(1):113-34, 1991 (original report)
Diammonium EDTA	X					not in current use1			IJT 21(S2):95-142, 2002

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						Use concentration for "S" conclusion 6			
Diazolidinyl Urea		X					0.5%		JACT 9(2):229-45, 1990 confirmed 12/06
Dibehenyl Fumarate, Diethylhexyl Fumarate, Disodium Fumarate, Sodium Fumarate, Sodium Stearyl Fumarate.	X					not in current use1			Final report 03/09 - Available from CIR
Dibutyl Adipate (Amended)	X					up to 8%			IJT 25(S1):129-134, 2006 JACT 15(4):295-300, 1996 (original Report)
Di-t-Butylhydroquinone				X					JACT 15(4):311-9, 1996
Dibutyl Phthalate	X					up to 15%			JACT 4(3):267-303, 1985 confirmed 11/02 IJT 24(S1):34-42, 2005 reconfirmed 09/05
Di-C12 - 15 Alkyl Fumarate	X					up to 5%			Safety Assessment 03/09 - Available from CIR
Dicetearyl Dimer Dilinoleate	X					up to 7%			IJT 22(S2):45-61, 2003
Dichlorophene				X					IJT 23(S1):1-27 2004
Diethanolamine		X					safe as used in rinse-off products; but 5% for leave-on products; and should not be used in products containing N-nitrosating agents		JACT 2(7):183-235, 1983
Diethylene Glycol Diethylhexanoate/Diisononanoate	X					up to 19%			Final Safety Assessment 06/10 Available from CIR
Diethylene Glycol Diisononanoate	X					not in current use1			Final Safety Assessment 06/10 Available from CIR
Diethylhexyl Adipate	X					up to 38%			JACT 3(3):101-30, 1984 confirmed 06/03 IJT 24(S1):44-47, 2005
Diethylhexyl Dimer Dilinoleate	X					up to 12%			IJT 22(S2):45-61, 2003
Diethylhexyl Sodium Sulfosuccinate	X					5%			IJT (S4):1-20, 1998
Diethyl Phthalate and Dimethyl Phthalate	X					up to 2%			JACT 4(3):267-303, 1985 confirmed 11/02 IJT 24(S1):34-42, 2005 reconfirmed 09/05
Di-HEMA Trimethylhexyl Dicarbamate		X					safe in nail enhancement products when skin contact is avoided; products containing this ingredient should be accompanied with directions to avoid skin contact because of the sensitizing potential of methacrylates		IJT 24(S5):53-100, 2005
Dihydrocholesteryl Nonanoate	X					not in current use1			Final Safety Assessment 06/10 Available from CIR

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Diisopropanolamine		X					safe for use in cosmetic products; but should not be used in products containing N-nitrosating agents		JACT 6(1):53-76, 1987 confirmed 12/04 IJT 25(S2), 2006
Diisopropyl Adipate	X					up to 15%			JACT 3(3):101-30, 1984 confirmed 06/03 IJT 24(S1):44-47, 2005
Diisopropylamine		X					safe for use in cosmetic products; but should not be used in products containing N-nitrosating agents		JACT 14(3):182-92, 1995 confirmed 12/09
Diisopropyl Dimer Dilinoleate	X					up to 53%			IJT 22(S2):45-61, 2003
Diisostearyl Dimer Dilinoleate	X					up to 12%			IJT 22(S2):45-61, 2003
Diisostearyl Fumarate	X					up to 20%			Final report 03/09 - Available from CIR
Dilauryl Thiodipropionate, Dicetyl Thiodipropionate, Dimyristyl Thiodipropionate, Distearyl Thiodipropionate, and Ditridecyl Thiodipropionate (dialkyl esters)		X					safe for use in cosmetic formulations when formulated to be non-irritating		Amended Safety Assessment 03/09 - Available from CIR JACT 11(1):25-41, 1992 (original report)
Dimethicone	X					up to 80% in hair preparations; up to 24% in makeup			IJT 22(S2):11-35, 2003
Dimethicone Copolyol	X					up to 1%			JACT 1(4):33-54, 1982 confirmed 02/03 IJT 24(S1):42-44, 2005
Dimethicone PEG-7 Phosphate and Dimethicone PEG-8 Benzoate	X					up to 0.5%			JACT 1(4):33-54, 1982 4 confirmed 02/03 IJT 24(S1):42-44, 2005
Dimethicone PEG-10 Phosphate, Dimethicone PEG-6 Acetate, and Dimethicone PEG-8 Adipate	X					not reported <sup>2</sup>			JACT 1(4):33-54, 1982 4 confirmed 02/03 IJT 24(S1):42-44, 2005
Dimethicone PEG/PPG-7/4 Phosphate, Dimethicone PEG/PPG-12/4 Phosphate, Dimethicone PEG/PPG-20/23 Benzoate	X					not reported <sup>2</sup>			JACT 1(4):33-54, 1982 4 confirmed 02/03 IJT 24(S1):42-44, 2005
Dimethoxysilyl Ethylenediaminopropyl Dimethicone	X					not in current use <sup>1</sup>			IJT 22(S2):11-35, 2003
Dimethyl Behenamine, Dimethyl Cocamine, Dimethyl Hydrogenated Tallowamine, Dimethyl Lauramine, Dimethyl Myristamine, Dimethyl Palmitamine, Dimethyl Tallowamine, and Dimethyl Soyamine (amended)	X					not in current use <sup>1</sup>			Amended Final Report 12-09 - available from CIR JACT 14(3):193-95, 1995 (original report)
Dimethyl Stearamine (amended)	X					up to 4% in non-coloring hair care products			Amended Final Report 12-09 - available from CIR JACT 14(3):193-95, 1995 (original report)
Diocetyl Adipate	X					up to 38%			JACT 3(3):101-30, 1984 confirmed 06/03 IJT 24(S1):44-47, 2005

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						Use concentration for "S" conclusion 6			
Diocetyl Dimer Dilinoleate	X					up to 12%			IJT 22(S2):45-61, 2003
Diocetyldecyl Dimer Dilinoleate	X					up to 10%			IJT 22(S2):45-61, 2003
Diocetyl Sodium Sulfosuccinate	X					5%			IJT 17(S4):1-20, 1998
Dioleyl Tocopheryl Methylsilanol	X					6%			IJT 21(S3):51-116, 2002
Dioscorea Villosa (Wild Yam) Root Extract	X					up to 15% of max. 2% plant solids			IJT 23(S2):49-54, 2004
Dipentaerythrityl Pentaisnonanoate	X					up to 13%			Final Safety Assessment 06/10 Available from CIR
Dipotassium EDTA	X					less than 0.1%			IJT 21(S2):95-142, 2002
Dipotassium Glycyrrhizate	X					up to 1%			IJT 26(S2):79-112, 2007
Dipropylene Glycol	X					up to 50%			JACT 4(5):223-48, 1985 confirmed 02/04 IJT 25(S2), 2006
Disodium Cocoamphodiacetate	X					up to 12%			JACT 9(2):121-42, 1990 confirmed 04/06
Disodium Cocoamphodipropionate	X					up to 15%			JACT 9(2):121-142, 1990 confirmed 04/06
Disodium EDTA	X					less than 1%			IJT 21(S2):95-142, 2002
Disodium Glycyrrhizate	X					not in current use1			IJT 26(S2):79-112, 2007
Disodium Succinoyl Glycyrrhetinate	X					not reported2			IJT 26(S2):79-112, 2007
Disperse Black 9	X					up to 0.5%			JACT 5(3):205-23, 1986 confirmed 12/06
Disperse Blue 1		X					up to 1%		JACT 14(6):433-51, 1995 reopened 04/10
Disperse Blue 7			X						IJT 26(S2):65-77, 2007
Disperse Violet 1	X					up to 1%			JACT 10(1):103-11, 1991
Disperse Yellow 3				X					JACT 15(4):301-10, 1996
Ditridecyl Dimer Dilinoleate	X					not in current use1			IJT 22(S2):45-61, 2003
DMDM Hydantoin	X					up to 1%			JACT 7(3):245-77, 1988 confirmed 09/05
Drometrizole	X					0.07%			IJT 27(S2): 63-75, 2008 JACT 5(5):455-70, 1986 (original report)
<b>E</b>									
EDTA	X					up to 2%			IJT 21(S2):95-142, 2002
Elaeis Guineensis (Palm) Kernel Oil	X					up to 25%			IJT 19 (S2):7-28, 2000

Ingredient Name	Review Conclusion					Explanation	Concentration or other limitation on use for "SQ" conclusion	Safety concern for "U" conclusion	Journal Citation
	S	SQ	I	Z	U				
						Use concentration for "S" conclusion 6			
Elaeis Guineensis (Palm) Oil	X					up to 2%			IJT 19 (S2):7-28, 2000
Emulsifying Wax N.F.	X					up to 21%			JACT 3(3):43-99, 1984 confirmed 06/03 IJT 24(S1):67-74, 2005
Erythorbic Acid	X					up to 1%			IJT 18(S3):1-26, 1999
Ethanolamine		X					safe for use in rinse-off products; but should not be used in leave-on products		JACT 2(7):183-235, 1983
Ethanolamine Thioglycolate		X					in hair straighteners, permanent waves, tonics, dressings, etc., wave sets, other non-coloring hair products, and hair dyes and colors; safe at 15.2% (as thioglycolic acid); hairdressers should avoid skin contact and minimize consumer skin exposure		IJT 28(S3):68-133, 2009
Ethoxydiglycol	X					up to 80%			JACT 4(5):223-48, 1985 confirmed 02/04 IJT 25(S2), 2006
Ethoxyethanol and Ethoxyethanol Acetate					X			reproductive & developmental toxicity	IJT 21(S1):9-62, 2002
Ethoxyethyl Methacrylate and 2-Ethoxy Ethoxy Ethyl Methacrylate		X					safe in nail enhancement products when skin contact is avoided; products containing this ingredient should be accompanied with directions to avoid skin contact because of the sensitizing potential of methacrylates		IJT 24(S5):53-100, 2005
Ethyl Acetate	X					> 50%			JACT 8(4):681-705, 1989 confirmed 08/06
Ethylcellulose (amended)	X					up to 4%			Amended safety assessment 03/09
Ethylene/Acrylic Acid Copolymer		X					safe for use when formulated to avoid irritation		IJT 21(S3):1-50, 2002
Ethylene/Acrylic Acid/VA Copolymer		X					safe for use when formulated to avoid irritation		IJT 21(S3):1-50, 2002
Ethylene/Calcium Acrylate Copolymer		X					safe for use when formulated to avoid irritation		IJT 21(S3):1-50, 2002
Ethylene Glycol Special Report (Reproductive and Developmental Toxicity of Ethylene Glycol and Its Ethers)									IJT 19(2):53-67, 1999
Ethylene Glycol Dimethacrylate		X					safe in nail enhancement products when skin contact is avoided; products containing this ingredient should be accompanied with directions to avoid skin contact because of the sensitizing potential of methacrylates		IJT 24(S5):53-100, 2005
Ethylene/Magnesium Acrylate Copolymer		X					safe for use when formulated to avoid irritation		IJT 21(S3):1-50, 2002
Ethylene/Methacrylate Copolymer		X					safe for use when formulated to avoid irritation		IJT 21(S3):1-50, 2002
Ethylene/Sodium Acrylate Copolymer		X					safe for use when formulated to avoid irritation		IJT 21(S3):1-50, 2002



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Ferrous Fumarate	X					up to 0.0003%			Final report 03/09 - Available from CIR
Formaldehyde		X					0.2% as free1 Formaldehyde, but keep to minimum; and should not be used in products intended to be aerosolized		JACT 3(3):157-84, 1984 confirmed 09/03 IJT 25(S2), 2006
Formic Acid		X					64 ppm of the free acid		IJT 16(S3):221-34, 1997
Fossil and Synthetic Waxes	X					varies			JACT 3(3):43-99, 1984 confirmed 06/03
Fuller's Earth	X					up to 50%			IJT 22(S1):37-102, 2003
Fumaric Acid	X					up to 5%			Final report 03/09 - Available from CIR
<b>G</b>									
Glucose Glutamate			X						IJT 19(S1):11-12, 2000
Glutaral		X					< 0.5% for rinse-off; but should not be used in products intended to be aerosolized (insufficient data to support safety in leave-on products)		JACT 15(2):98-139, 1996
Glycereth-7 Diisononanoate	X					not in current use1			Final Safety Assessment 06/10 Available from CIR
Glyceryl Adipate	X					not in current use1			IJT 23 (S2):55-94,2004
Glyceryl Alginate and Glyceryl Erucate	X					up to 0.5%			IJT 23 (S2):55-94,2004
Glyceryl Arachidate	X					not in current use1			IJT 23 (S2):55-94,2004
Glyceryl Arachidonate			X						IJT 23 (S2):55-94,2004
Glyceryl Behenate	X					up to 5%			IJT 23 (S2):55-94,2004
Glyceryl Caprate	X					not in current use1			IJT 23 (S2):55-94,2004
Glyceryl Caprylate	X					not reported2			IJT 23 (S2):55-94,2004
Glyceryl Caprylate/Caprate	X					up to 2%			IJT 23 (S2):55-94,2004
Glyceryl Citrate/Lactate/ Linoleate/ Oleate	X					not in current use1			IJT 23 (S2):55-94,2004
Glyceryl Cocoate	X					up to 5%			IJT 23 (S2):55-94,2004
Glyceryl Collagenate	X					not in current use1			IJT 23 (S2):55-94,2004
Glyceryl Dilaurate, Glyceryl Dioleate, Glyceryl Diarachidate , Glyceryl Diricinoleate, Glyceryl Dibehenate, Glyceryl Dipalmitate, Glyceryl Dierucate, Glyceryl Dipalmitoleate, Glyceryl Dihydroxystearate, Glyceryl Distearate, Glyceryl Diisopalmitate, Glyceryl Palmitate Lactate, Glyceryl Diisostearate, Glyceryl Stearate Citrate, Glyceryl Dilinoleate, Glyceryl Stearate Lactate, Glyceryl Dimyristate, and Glyceryl Stearate Succinate		X					safe as cosmetic ingredients in the practices of use and concentration as described in the safety assessment, provided that the content of 1,2-diesters is not high enough to induce epidermal hyperplasia		IJT 26(S3) 2007
Glyceryl Glycyrrhetinate	X					not in current use1			IJT 26(S2):79-112, 2007

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	S	SQ	I	Z	U				
						Use concentration for "S" conclusion 6			
Glyceryl Hydrogenated Rosinate	X					not in current use1			IJT 23 (S2):55-94,2004
Glyceryl Hydrogenated Soyate	X					not in current use1			IJT 23(S2):55-94, 2004
Glyceryl Hydroxystearate	X					up to 2%			IJT 23(S2):55-94, 2004
Glyceryl Isopalmitate	X					not in current use1			IJT 23(S2):55-94, 2004
Glyceryl Isostearate	X					up to 6%			IJT 23(S2):55-94, 2004
Glyceryl Isostearates	X					not in current use1			IJT 23(S2):55-94, 2004
Glyceryl Isostearate/Myristate	X					not in current use1			IJT 23(S2):55-94, 2004
Glyceryl Isotridecanoate/Stearate/ Adipate	X					not in current use1			IJT 23(S2):55-94, 2004
Glyceryl Lanolate	X					not in current use1			IJT 23(S2):55-94, 2004
Glyceryl Laurate	X					up to 4%			IJT 23(S2):55-94, 2004
Glyceryl Laurate/Oleate, Glyceryl Laurate SE, and Glyceryl Oleate SE	X					not in current use1			IJT 23(S2):55-94, 2004
Glyceryl Linoleate and Glyceryl Linolenate	X					up to 1%			IJT 23(S2):55-94, 2004
Glyceryl Montanate	X					not in current use1			IJT 23(S2):55-94, 2004
Glyceryl Myristate	X					up to 6%			IJT 23(S2):55-94, 2004
Glyceryl Oleate	X					up to 5%			JACT 5(5):391-413
Glyceryl Oleate/Elaidate	X					up to 2%			IJT 23(S2):55-94, 2004
Glyceryl Palmitate	X					not reported2			IJT 23(S2):55-94, 2004
Glyceryl Palmitate/Stearate and Glyceryl Palmitoelate	X					not in current use1			IJT 23(S2):55-94, 2004
Glyceryl Pentadecanoate	X					not in current use1			IJT 23(S2):55-94, 2004
Glyceryl Polyacrylate	X					up to 2%			IJT 23(S2):55-94, 2004
Glyceryl Ricinoleate (amended)	X					up to 12%			IJT 26(S3) 2007 JACT 7(6):721-39, 1988 (original report )
Glyceryl Ricinoleate SE	X					not in current use1			IJT 26(S3) 2007
Glyceryl Rosinate	X					up to 7%			IJT 23(S2):55-94, 2004
Glyceryl Sesquioleate	X					not in current use1			IJT 23(S2):55-94, 2004
Glyceryl/Sorbitol Oleate/Hydroxystearate	X					not in current use1			IJT 23(S2):55-94, 2004
Glyceryl Stearate	X					up to 50%			JACT 1(4):169-92, 1982
Glyceryl Stearate/Acetate	X					up to 7%			IJT 23(S2):55-94, 2004
Glyceryl Stearate Diacetate	X					not in current use1			IJT 20(S4):61-94, 2001
Glyceryl Stearate/Maleate	X					not in current use1			IJT 23(S2):55-94, 2004
Glyceryl Stearate SE	X					up to 25%			JACT 1(4):169-92, 1982
Glyceryl Tallowate	X					not in current use1			IJT 23(S2):55-94, 2004
Glyceryl Thioglycolate (amended)		X					in hair straighteners, permanent waves, tonics, dressings, etc., wave sets, other non-coloring hair products, and hair dyes and colors; safe at 15.2% (as thioglycolic acid); hairdressers should avoid skin contact and minimize consumer skin exposure		IJT 28(S3):68-133, 2009 JACT 10(1):135-92, 1991 (original report)
Glyceryl Thiopropionate	X					not in current use1			IJT 23(S2):55-94, 2004
Glyceryl Triacetyl Hydroxystearate	X					9%			IJT 20(S4):61-94, 2001



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	S	SQ	I	Z	U				
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Glyceryl Triacetyl Ricinoleate	X					8%			IJT 20(S4):61-94, 2001
Glyceryl Undecylenate	X					not reported <sup>2</sup>			IJT 23(S2):55-94, 2004
Glycol Distearate	X					up to 9%			JACT 1(2):1-11, 1982 confirmed 09/01 IJT 22(S1):1-35, 2003
Glycol HEMA-Methacrylate (aka Ethylene Glycol Dimethacrylate )		X					safe in nail enhancement products when skin contact is avoided; products containing this ingredient should be accompanied with directions to avoid skin contact because of the sensitizing potential of methacrylates		IJT 24(S5):53-100, 2005
Glycolic Acid		X					Glycolic and Lactic Acid, their common salts and their simple esters, are safe for use in cosmetic products at concentrations ≤10%, at final formulation pH ≥3.5, when formulated to avoid increasing sun sensitivity or when directions for use include the daily use of sun protection. These ingredients are safe for use in salon products at concentrations ≤30%, at final formulation pH ≥3.0, in products designed for brief, discontin-uous use followed by thorough rinsing from the skin, when applied by trained professionals, and when application is accompanied by directions for the daily use of sun protection.		IJT 17(S1):1-242, 1998
Glycol Ricinoleate	X					not in current use <sup>1</sup>			IJT 26(S3) 2007
Glycol Stearate	X					up to 6%			JACT 1(2):1-11, 1982 confirmed 09/01 IJT 22(S1):1-35, 2003
Glycol Stearate SE	X					up to 12%			JACT 1(2):1-11, 1982 confirmed 09/01 IJT 22(S1):1-35, 2003
Glycyrrhetic Acid	X					up to 2%			IJT 26(S2):79-112, 2007
Glycyrrhetinyl Stearate	X					not in current use <sup>1</sup>			IJT 26(S2):79-112, 2007
Glycyrrhizic Acid	X					up to 0.1%			IJT 26(S2):79-112, 2007
Glycyrrhiza Glabra (Licorice) Leaf Extract,	X					not reported <sup>2</sup>			Final report 09/08 available from CIR
	X					not in current use <sup>1</sup>			Final report 09/08 available from CIR
Glycyrrhiza Glabra (Licorice) Root Extract	X					up to 0.4%			Final report 09/08 available from CIR
Glyoxal (Amended)		X					1.25% in products intended to be applied to the nail		JACT 14(5):348-63, 1995 IJT 19(1):13-27, 2000
Gossypium (Cotton) Seed Oil		X							IJT 20(S2):21-29, 2001
<b>H</b>									
Hazel (Corylus Americana) Extract			X						IJT 20(S1):15-20, 2001
Hazel (Corylus Avellana) Extract			X						IJT 20(S1):15-20, 2001

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Hazel (Corylus Rostrata) Extract				X					IJT 20(S1):15-20, 2001
Hazel (Corylus Americana) Nut Extract			X						IJT 20(S1):15-20, 2001
Hazel (Corylus Avellana) Nut Extract			X						IJT 20(S1):15-20, 2001
Hazel (Corylus Rostrata) Nut Extract				X					IJT 20(S1):15-20, 2001
Hazel (Corylus Americana) Nut Oil			X						IJT 20(S1):15-20, 2001
Hazel (Corylus Avellana) Nut Oil			X						IJT 20(S1):15-20, 2001
HC Blue No. 1					X			carcinogenicity	JACT 13(5):344-60, 1994
HC Blue No. 2	X					2% in a hair dye (diluted in use to 1%)			JACT 13(5):361-73, 1994 confirmed 06/09
HC Orange No. 1		X					safe for use in hair dyes up to 3%		IJT 17(S4):21-38, 1998
HC Red No. 1		X					0.5%		JACT 15(4):320-36, 1996
HC Red No. 3		X					safe as used in hair dyes; but should not be used in products containing N-nitrosating agents		JACT 11(4):509-19, 1992
HC Red No. 7	X					up to 1%			Final Report 06/06 Available from CIR
HC Yellow No. 2		X					3%		JACT 13(3):157-66, 1994 confirmed 12/08
HC Yellow No. 4	X					3%			IJT 17(S4):39-70, 1998
HC Yellow No. 5	X					up to 1.6%			IJT 26(S2):113-124, 2007
Hectorite	X					100% in a skin cleanser; up to 15%			IJT 22(S1):37-102, 2003
HEDTA	X					not reported <sup>2</sup>			IJT 21(S2):95-142, 2002
HEMA and HEMA Acetoacetate		X					safe in nail enhancement products when skin contact is avoided; products containing this ingredient should be accompanied with directions to avoid skin contact because of the sensitizing potential of methacrylates		IJT 24(S5):53-100, 2005
Hexamidine and Hexamidine Diisethionate		X					safe at concentrations less than or equal to 0.1%		IJT 26(S3) 2007
Hexyldeceth-2, -20 (Alkyl PEG Ethers report)									Tentative Amended Report 06/10 Available from CIR
Hexyldodecyl Salicylate		X					safe when formulated to avoid irritation and to avoid increasing sun sensitivity, or when increased sun sensitivity would be expected, directions for use include the daily use of sun protection.		IJT 22(3):1-108
Hexylene Glycol	X					up to 6%			JACT 4(5):223-48, 1985 confirmed 02/04 IJT 25(S2), 2006
Hexyl Methacrylate		X					safe in nail enhancement products when skin contact is avoided; products containing this ingredient should be accompanied with directions to avoid skin contact because of the sensitizing potential of methacrylates		IJT 24(S5):53-100, 2005

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Hexyl Methicone	X					not in current use1			IJT 22(S2):11-35, 2003
Human Placental Protein			X						
Human Placental Enzymes and Human Placental Lipids				X			if used, should not deliver any metabolic/endocrine activity, and they must be free of detectable pathogenic viruses or infectious agents		IJT 21(S1):81-91, 2002
Human Umbilical Extract				X			if used, should not deliver any metabolic/endocrine activity, and they must be free of detectable pathogenic viruses or infectious agents		IJT 21(S1):81-91, 2002
Hyaluronic Acid	X					up to 1%			IJT 28 (1): 5-67, 2009
Hydrated Silica	X					up to 34%			Final Report 09/09 available from CIR
Hydrogenated Castor Oil	X					up to 39%			IJT 26(S3) 2007
Hydrogenated Coco-Glycerides (amended)	X					up to 31%			Amended Final Report 09/08 - available from CIR
Hydrogenated Coconut Acid (amended)	X					up to 10%			Amended Final Report 09/08 - available from CIR JACT 5(3):103-21, 1986 (original report)
Hydrogenated Coconut Oil (amended)	X					up to 50%			Amended Final Report 09/08 - available from CIR JACT 5(3):103-21, 1986 (original report)
Hydrogenated Cottonseed Glyceride and Hydrogenated Cottonseed Oil		X							IJT 20(S2):21-29, 2001
Hydrogenated Dimer Dilinoleth-20, -30, -40, -60, -80 (Alkyl PEG Ethers report)									Tentative Amended Report 06/10 Available from CIR
Hydrogenated Jojoba Oil (amended)	X					up to 31%			Amended Final Report 09/08 - available from CIR
Hydrogenated Laneth-5, -20, -25 (Alkyl PEG Ethers report)									Tentative Amended Report 06/10 Available from CIR
Hydrogenated Lanolin	X					up to 10%			JEPT 4(4):63-92, 1980 confirmed 02/03 IJT 24(S1):2-10, 2005
Hydrogenated Lard, Hydrogenated Lard Glyceride, and Hydrogenated Lard Glycerides		X					lead 0.1ppm; arsenic 3ppm; mercury 1ppm; total PCB/pesticide contamination 40ppm with 10ppm for any specific residue		IJT 20(S2):57-64, 2001

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Hydrogenated Lecithin		X					safe as used in rinse-off products; but 5% in leave-on products. Should not be used in products where N-nitroso compounds may be formed. Insufficient data to determine safety in products where these ingredients are likely to be inhaled.		IJT 20(S1):21-45, 2001
Hydrogenated Palm Kernel Oil and Hydrogenated Palm Oil	X					up to 2%			IJT 19(S2):7-28, 2000
Hydrogenated Peanut Oil	X					up to 25%			IJT 20(S2):65-77, 2001
Hydrogenated Polyisobutene	X					up to 96%			IJT 27(S4): 83-106, 2008
Hydrogenated Rice Bran Wax	X					not reported <sup>2</sup>			IJT 25(S2):91-120, 2006
Hydrogenated Sesame Seed Oil (amended)	X					not in current use <sup>1</sup>			Amended Final Report 06/09 Available from CIR JACT 12(3):261-77, 1993 (original report)
Hydrogenated Talloweth-12, -25 (Alkyl PEG Ethers report)									Tentative Amended Report 06/10 Available from CIR
Hydrogenated Tallow Glyceride and Hydrogenated Tallow Glycerides	X					up to 25%			JACT 9(2):153-64, 1990 confirmed 06/06
Hydrolyzed Collagen	X					up to 6%			JACT 4(5)199-221, 1985 confirmed 06/04 IJT 25(S2), 2006
Hydrolyzed Corn Protein	X					up to 2%			Final Report 09/08 available from CIR
Hydrolyzed Corn Starch	X					up to 1%			Final Report 09/08 available from CIR
Hydrolyzed Human Placental Protein				X			if used, should not deliver any metabolic/endocrine activity, and they must be free of detectable pathogenic viruses or infectious agents		IJT 21(S1):81-91, 2002
Hydrolyzed Placental Protein			X				if used, should not deliver any metabolic/endocrine activity, and they must be free of detectable pathogenic viruses or infectious agents		IJT 21(S1):81-91, 2002
Hydrolyzed Jojoba Esters (amended)	X					up to 2%			Amended Final Report 09/08 - available from CIR
Hydrolyzed Rice Bran Extract	X					up to 0.0004%	These rice derived ingredients as used in products should not contain significant levels of pesticide residues or heavy metals		IJT 25(S2):91-120, 2006

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Hydrolyzed Rice Bran Protein	X					not in current use1	These rice derived ingredients as used in products should not contain significant levels of pesticide residues or heavy metals		IJT 25(S2):91-120, 2006
Hydrolyzed Rice Extract	X					up to 0.3%	These rice derived ingredients as used in products should not contain significant levels of pesticide residues or heavy metals		IJT 25(S2):91-120, 2006
Hydrolyzed Rice Protein	X					up to 2%	These rice derived ingredients as used in products should not contain significant levels of pesticide residues or heavy metals		IJT 25(S2):91-120, 2006
Hydroquinone (amended)		X				up to 0.5% in nail care products	safe as used in nail care products, safe at concentrations 1% for cosmetic formulations designed for discontinuous, brief use followed by rinsing from the skin and hair	leave-on use; renal toxicity	Final Amended Report 09/09 available from CIR JACT 13(3):167-230, 1994 JACT 5(3):123-65, 1986 (Previous reports)
p-Hydroxyanisole					X			skin depigmentation	JACT 4(5):31-63, 1985 confirmed 09/03 IJT 25(S2), 2006
Hydroxybenzomorpholine	X					up to 1%			JACT 10(1):205-13, 1991
Hydroxyethylcellulose (amended)	X					up to 6%			Amended safety assessment 03/09 - Available from CIR JACT 5(3):1-59, 1986 (original report)
Hydroxyethyl Ethylcellulose (amended)	X					up to 3%			Amended safety assessment 03/09 - Available from CIR
Hydroxyethylmethacrylate Acetoacetate		X					safe in nail enhancement products when skin contact is avoided; products containing this ingredient should be accompanied with directions to avoid skin contact because of the sensitizing potential of methacrylates		IJT 24(S5):53-100, 2005
Hydroxylated Lanolin	X					up to 28%			JEPT 4(4):63-92, 1980 confirmed 02/03 IJT 24(S1):2-10, 2005
4-Hydroxypropylamino-3-Nitrophenol	X					up to 2.6% in hair dyes			IJT 28(S3): 217-251, 2009
Hydroxypropylcellulose (amended)	X					up to 4%			Amended safety assessment 03/09 - Available from CIR JACT 5(3):1-59, 1986 (original report)
Hydroxypropyldimethicone	X					not in current use1			IJT 22(S2):11-35, 2003

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Hydroxypropyl Methacrylate		X					safe in nail enhancement products when skin contact is avoided; products containing this ingredient should be accompanied with directions to avoid skin contact because of the sensitizing potential of methacrylates		IJT 24(S5):53-100, 2005
Hydroxypropyl Methylcellulose (amended)	X					up to 4%			Amended safety assessment 03/09 - Available from CIR JACT 5(3):1-59, 1986 (original report)
Hydroxystearic Acid	X								IJT 18(S1):1-10, 1999
Hypericum Perforatum Extract and Hypericum Perforatum Oil			X						IJT 20(S2):31-39, 2001
<b>I</b>									
Imidazolidinyl Urea	X					up to 1%			JEPT 4(4):133-46, 1980 confirmed 09/01 IJT 22(S1):1-35, 2003
Iodopropynyl Butylcarbamate (IPBC)		X					safe for use at 0.1%; should not be used in products intended to be aerosolized		IJT 17(S5):1-37, 1998
Isoamyl Acetate	X					up to 10%			JACT 7(6):705-19, 1988
Isobornyl Methacrylate and Isobutyl Methacrylate		X					safe in nail enhancement products when skin contact is avoided; products containing this ingredient should be accompanied with directions to avoid skin contact because of the sensitizing potential of methacrylates		IJT 24(S5):53-100, 2005
Isobutane	X					up to 83%			JACT 1(4):127-42, 1982 confirmed 06/02 IJT 24(S1):52-55, 2005
Isobutylparaben	X					up to 0.4% if used alone; parabens mixture up to 0.8%			IJT 27(S4): 1-82, 2008 JACT14(5):364-372, 1995 (original report)
Isobutyl Stearate	X					up to 7%			JACT 4(5):107-46, 1985 confirmed 06/03 IJT 24(S1):21-25, 2005
Isoceteth-5, -7, -10, -12, 15, -20, -25, -30 (Alkyl PEG Ethers report)									Tentative Amended Report 06/10 Available from CIR
Isocetyl Salicylate		X					safe when formulated to avoid irritation and to avoid increasing sun sensitivity, or when increased sun sensitivity would be expected, directions for use include the daily use of sun protection.		IJT 22(3):1-108

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	S	SQ	I	Z	U				
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Isocetyl Stearate	X					up to 30%			JACT 4(5):107-46, 1985 confirmed 06/03 IJT 24(S1):21-25, 2005
Isodeceth-4, -5, -6 (Alkyl PEG Ethers report)									Tentative Amended Report 06/10 Available from CIR
Isodecyl Cocoate	X					not in current use1			Amended Final Report 09/08 - available from CIR
Isodecyl Isononanoate	X					up to 59%			Final Safety Assessment 06/10 Available from CIR
Isodecyl Oleate	X					up to 8%			JACT 1(2):85-95, 1982 confirmed 11/01 IJT 22(S1):1-35, 2003
Isodecyl Salicylate		X					safe when formulated to avoid irritation and to avoid increasing sun sensitivity, or when increased sun sensitivity would be expected, directions for use include the daily use of sun protection.		IJT 22(3):1-108
Isolaureth-3, -6, -10 (Alkyl PEG Ethers report)									Tentative Amended Report 06/10 Available from CIR
Isomerized Jojoba Oil (amended)	X					not in current use1			Amended Final Report 09/08 - available from CIR
Isomyreth-3, -9 (Alkyl PEG Ethers report)									Tentative Amended Report 06/10 Available from CIR
Isononyl Isononanoate	X					up to 64%			Final Safety Assessment 06/10 Available from CIR
Isooctyl Thioglycolate		X					in hair straighteners, permanent waves, tonics, dressings, etc., wave sets, other non-coloring hair products, and hair dyes and colors; safe at 15.2% (as thioglycolic acid); hairdressers should avoid skin contact and minimize consumer skin exposure		IJT 28(S3):68-133, 2009

Ingredient Name	Review Conclusion					Explanation	Concentration or other limitation on use for "SQ" conclusion	Safety concern for "U" conclusion	Journal Citation
	S	SQ	I	Z	U				
C7-8 Isoparaffin, C8-9 Isoparaffin, C9-11 Isoparaffin, C9-12 Isoparaffin, C9-13 Isoparaffin, C9-14 Isoparaffin, C9-16 Isoparaffin, C10-11 Isoparaffin, C10-12 Isoparaffin, C10-13 Isoparaffin, C11-12 Isoparaffin, C11-13 Isoparaffin, C11-14 Isoparaffin, C12-14 Isoparaffin, C12-20 Isoparaffin, C13-14 Isoparaffin, C13-16 Isoparaffin, C18-70 Isoparaffin, C20-40 Isoparaffin, C15-35 Isoparaffin/Isoalkylcycloalkanes, Isododecane, Isoeicosane, Isohexadecane, Isooctane						Use concentration for "S" conclusion 6			Scientific Literature Review 05/10 Available from CIR
Isopentane	X					up to 37%			JACT 1(4):127-42, 1982 confirmed 06/02 IJT 24(S1):52-55, 2005
Isopropanolamine		X					safe for use in cosmetic products; but should not be used in products containing N-nitrosating agents		JACT 6(1):53-76, 1987 confirmed 12/04 IJT 25(S2), 2006
Isopropylamine Dodecylbenzenesulfonate (amended)		X					safe for use in cosmetics when formulated to be non-irritating		Amended safety assessment 03/09 - Available from CIR
Isopropyl Cresols		X					up to 5%		IJT 25(S1):29-127, 2006 (Amended Report)
Isopropyl Ester of PVM/MA Copolymer (amended)	X					not in current use1			Amended Final Report 06/09 Available from CIR JACT 12(3):243-56, 1993 (original report)
Isopropylidenediphenyl Bisglycidyl Methacrylate		X					safe in nail enhancement products when skin contact is avoided; products containing this ingredient should be accompanied with directions to avoid skin contact because of the sensitizing potential of methacrylates		IJT 24(S5):53-100, 2005
Isopropyl Isostearate	X					up to 50%			JACT 11(1):43-9, 1992
Isopropyl Lactate, Glycolic Acid		X					Glycolic and Lactic Acid, their common salts and their simple esters, are safe for use in cosmetic products at concentrations ≤10%, at final formulation pH ≥3.5, when formulated to avoid increasing sun sensitivity or when directions for use include the daily use of sun protection. These ingredients are safe for use in salon products at concentrations ≤30%, at final formulation pH ≥3.0, in products designed for brief, discontin-uous use followed by thorough rinsing from the skin, when applied by trained professionals, and when application is accompanied by directions for the daily use of sun protection.		IJT 17(S1):1-242, 1998



Ingredient Name	Review Conclusion					Explanation	Concentration or other limitation on use for "SQ" conclusion	Safety concern for "U" conclusion	Journal Citation
	S	SQ	I	Z	U				
						Use concentration for "S" conclusion 6			
Isopropyl Lanolate	X					up to 26%			JEPT 4(4):121-32, 1980 confirmed 06/01 IJT 22(S1):1-35, 2003
Isopropyl Linoleate				X					JACT 11(1):51-56, 1992
Isopropyl Myristate	X					up to 78%			JACT 1(4):55-80, 1982 confirmed 06/02 IJT 24(S1):63-67, 2005
Isopropyl Palmitate	X					up to 44%			JACT 1(2):13-35, 1982 confirmed 09/01 IJT 24(S1):28-32, 2005
Isopropylparaben	X					up to 0.4% if used alone; parabens mixture up to 0.8%			IJT 27(S4): 1-82, 2008 JACT14(5):364-372, 1995 (original report)
Isopropyl Ricinoleate	X								IJT 26(S3) 2007
Isopropyl Stearate	X					up to 87%			JACT 4(5):107-146, 1985 confirmed 06/03 IJT 24(S1):21-25, 2005
Isopropyl Thioglycolate		X					in hair straighteners, permanent waves, tonics, dressings, etc., wave sets, other non-coloring hair products, and hair dyes and colors; safe at 15.2% (as thioglycolic acid); hairdressers should avoid skin contact and minimize consumer skin exposure		IJT 28(S3):68-133, 2009
Isostearamide DEA and Isostearamide MEA		X					safe for use in rinse-off products; for leave-on use, OK at conc. that limit release of ethanolamines to 5%, but max. conc. of 40%; should not be used in products in which N-nitroso compounds may be formed		Final Report 8/95 Available from CIR
Isostearamidopropyl Morpholine Lactate		X					safe for use in rinse-off products; data are insufficient to support safety in leave-on formulations		IJT 18(S3):51-56, 1999
Isosteareth-2, -3, -5, -8, 10, -12, -15, -16, -20, -22, -25, -50 (Alkyl PEG Ethers report)									Tentative Amended Report 06/10 Available from CIR
Isostearic Acid	X					up to 26%			JACT 2(7):61-74, 1983 confirmed 09/02 IJT 24(S1):55-56, 2005
Isostearyl Alcohol	X					up to 50%			JACT 7(3):359-413, 1988 confirmed 12/05
Isostearyl Isononanoate	X					not in current use 1			Final Safety Assessment 06/10 Available from CIR
Isostearyl Neopentanoate	X					up to 14%			JACT 4(3):1-22, 1985 confirmed 09/03 IJT 25(S2), 2006

Ingredient Name	Review Conclusion					Explanation	Concentration or other limitation on use for "SQ" conclusion	Safety concern for "U" conclusion	Journal Citation
	S	SQ	I	Z	U				
						Use concentration for "S" conclusion 6			
Isotridecyl Isononanoate	X					up to 51%			Final Safety Assessment 06/10 Available from CIR
<b>J</b>									
Japan Wax	X					up to 34%			JACT 3(3):1-41, 1984 confirmed 06/03
Jojoba Alcohol (amended)	X					up to 1%			Amended Final Report 09/08 - available from CIR
Jojoba Esters (amended)	X					up to 44%			Amended Final Report 09/08 - available from CIR
Juniperus Communis Fruit Extract, Juniperus Oxycedrus Tar, and Juniperus Virginiana Wood Extract			X						IJT 20(S2):41-56, 2001
Juniperus Oxycedrus Fruit Extract and Juniperus Phoenicea Gum Extract				X					IJT 20(S2):41-56, 2001
<b>K</b>									
Kaolin	X					up to 100%			IJT 22(S1):37-102, 2003
Kava Kava Leaf/Root/Stem Extract and Kava Kava Root Extract			X						IJT 28(S2): 175-188, 2009
Kojic Acid		X					1%		Final Report 04/10 Available from CIR
<b>L</b>									
Lactic Acid		X							IJT 17(S1):1-242, 1998
Laneth-5 (Alkyl PEG Ethers report)	X					up to 2%			JACT 1(4):1-23, 1982 confirmed 02/02 IJT 24(S1):56-59, 2005 Tentative Amended Report 06/10 Available from CIR
Laneth-16 (Alkyl PEG Ethers report)	X					up to 3%			JACT 1(4):1-23, 1982 confirmed 02/02 IJT 24(S1):56-59, 2005 Tentative Amended Report 06/10 Available from CIR
Laneth-10, -15, -20, -25, -40, -50, -60, -75 (Alkyl PEG Ethers report)									Tentative Amended Report 06/10 Available from CIR

Ingredient Name	Review Conclusion					Explanation	Concentration or other limitation on use for "SQ" conclusion	Safety concern for "U" conclusion	Journal Citation
	S	SQ	I	Z	U				
						Use concentration for "S" conclusion 6			
Laneth-25, Laneth-9 Acetate, and Laneth-10 Acetate (Alkyl PEG Ethers report)	X					not in current use1			JACT 1(4):1-23, 1982 confirmed 02/02 IJT 24(S1):56-59, 2005 Tentative Amended Report 06/10 Available from CIR
Lanolin	X					up to 37%			JEPT 4(4):63-92, 1980 confirmed 02/03 IJT 24(S1):2-10, 2005
Lanolin Acid	X					up to 10%			JEPT 4(4):63-92, 1980 confirmed 02/03 IJT 24(S1):2-10, 2005
Lanolin Alcohol	X					up to 4%			JEPT 4(4):63-92, 1980 confirmed 02/03 IJT 24(S1):2-10, 2005
Lanolin Oil	X					up to 65%			JEPT 4(4):63-92, 1980 confirmed 02/03 IJT 24(S1):2-10, 2005
Lanolin Wax	X					up to 25%			JEPT 4(4):63-92, 1980 confirmed 02/03 IJT 24(S1):2-10, 2005
Lapyrium Chloride	X					up to 5%			JACT 10(1):87-97, 1991
Lard, Lard Glyceride, and Lard Glycerides		X					lead 0.1ppm; arsenic 3ppm; mercury 1ppm; total PCB/pesticide contamination 40ppm with 10ppm for any specific residue		IJT 20(S2):57-64, 2001
Lauramide DEA		X				up to 50%	safe for use in cosmetic products; but should not be used as an ingredient in cosmetic products containing nitrosating agents		JACT 5(5):415-54, 1986
Lauramine				X					JACT 14(3):196-203, 1995
Lauramine Oxide		X					safe for use in rinse-off products; but 3.7% for leave-on products		JACT 13(3):231-45, 1994 confirmed 09/09
Laureth-4, -23 (Alkyl PEG Ethers report)	X					up to 6%			JACT 2(7):1-15, 1983 confirmed 02/03 IJT 24(S1):59-63, 2005 Tentative Amended Report 06/10 Available from CIR
Laureth-1, -2, -3, -5, -6, -7, -8, -9, -10, -11, -12, -13, -14, -15, -16, -20, -21, -25, -30, -38, -40, -50 (Alkyl PEG Ethers report)									Tentative Amended Report 06/10 Available from CIR
Lauric Acid	X					up to 25%			JACT 6(3):321-401, 1987 confirmed 06/05 IJT 25(S2), 2006

Ingredient Name	Review Conclusion					Explanation	Concentration or other limitation on use for "SQ" conclusion	Safety concern for "U" conclusion	Journal Citation
	S	SQ	I	Z	U				
						Use concentration for "S" conclusion 6			
Lauroyl Sarcosine		X					safe as used in rinse-off products; but 5% in leave-on products. Should not be used in products where N-nitroso compounds may be formed. Insufficient data to determine safety in products where these ingredients are likely to be inhaled.		IJT 20(S1):1-14, 2001
Lauryl Acrylate/VA Copolymer		X					safe for use when formulated to avoid irritation		IJT 21(S3):1-50, 2002
Lauryl Cocoate (amended)	X					not in current use1			Amended Final Report 09/08 - available from CIR
Lauryl Lactate		X							IJT 17(S1):1-242, 1998
Lauryl Methacrylate		X					safe in nail enhancement products when skin contact is avoided; products containing this ingredient should be accompanied with directions to avoid skin contact because of the sensitizing potential of methacrylates		IJT 24(S5):53-100, 2005
Lecithin		X					safe as used in rinse-off products; but 15% in leave-on products. Should not be used in products where N-nitroso compounds may be formed. Insufficient data to determine safety in products where these ingredients are likely to be inhaled.		IJT 20(S1):21-45, 2001
Linoleamide DEA		X					safe as used; but should not be used as an ingredient in cosmetic products containing nitrosating agents		JACT 5(5):415-454, 1986
Lithium Magnesium Silicate and Lithium Magnesium Sodium Silicate	X					not in current use1			IJT 22(S1):37-102, 2003
Lithium Stearate	X					up to 3%			JACT 1(2):143-177, 1982 confirmed 11/01 IJT 22(S1):1-35, 2003
<b>M</b>									
Magnesium Aluminum Silicate	X					up to 5%			IJT 22(S1):37-102, 2003
Magnesium Ascorbate	X					not in current use1			IJT 24(2):51-111, 2005
Magnesium Ascorbyl Phosphate	X					up to 3%			IJT 24(2):51-111, 2005
Magnesium Cocoate (amended)	X					not reported2			Amended Final Report 09/08 - available from CIR
Magnesium Coco-Sulfate	X					not in current use1			IJT 29(S2): 115-132, 2010
Magnesium Isodecylbenzenesulfonate (amended)		X					safe for use in cosmetics when formulated to be non-irritating		Amended safety assessment 03/09 - Available from CIR

Ingredient Name	Review Conclusion					Explanation	Concentration or other limitation on use for "SQ" conclusion	Safety concern for "U" conclusion	Journal Citation
	S	SQ	I	Z	U				
						Use concentration for "S" conclusion 6			
Magnesium Salicylate		X					safe when formulated to avoid irritation and to avoid increasing sun sensitivity, or when increased sun sensitivity would be expected, directions for use include the daily use of sun protection.		IJT 22(3):1-108
Magnesium Silicate and Magnesium Trisilicate	X					not in current use1			IJT 22(S1):37-102, 2003
Magnesium Stearate	X					up to 8%			JACT 1(2):143-177, 1982 confirmed 11/01 IJT 22(S1):1-35, 2003
Magnesium Thioglycolate		X					in hair straighteners, permanent waves, tonics, dressings, etc., wave sets, other non-coloring hair products, and hair dyes and colors; safe at 15.2% (as thioglycolic acid); hairdressers should avoid skin contact and minimize consumer skin exposure		IJT 28(S3):68-133, 2009
Maleic Acid	X					up to 0.0004%	safe for use as a pH adjuster; fragrance use not addressed		IJT 26(S2):125-130, 2007
Malic Acid		X					safe for use as pH adjusters; insufficient data to support safety for other uses		IJT 20(S1):47-55, 2001
Maltitol	X					up to 15%			Final report 09/08 available from CIR
Maltitol Laurate	X					not in current use1			Final report 09/08 available from CIR
MEA-Salicylate		X					safe when formulated to avoid irritation and to avoid increasing sun sensitivity, or when increased sun sensitivity would be expected, directions for use include the daily use of sun protection.		IJT 22(3):1-108
Melamine/Formaldehyde Resin				X					JACT 14(5):373-85, 1995
Mentha Piperita (Peppermint) Leaf, Mentha Piperita (Peppermint) Leaf Extract, Mentha Piperita (Peppermint) Leaf Water, and Mentha Piperita (Peppermint) Oil		X					safe as used, except that the concentration of pulegone should not exceed 1%		IJT 20(S3):61-73, 2001
Methacrylic Acid		X					safe as a nail primer in the present practices of use by trained professionals, but insufficient data to support retail use by consumers		IJT 24(S5):33-51, 2005
Methacryloyl Ethyl Betaine/Acrylates Copolymer		X					safe for use when formulated to avoid irritation		IJT 21(S3):1-50, 2002
Methenamine		X					0.16%; but should not be used in products intended to be aerosolized		JACT 11(4):531-58, 1992
Methicone	X					up to 5%			IJT 22(S2):11-35, 2003

Ingredient Name	Review Conclusion					Explanation	Concentration or other limitation on use for "SQ" conclusion	Safety concern for "U" conclusion	Journal Citation
	S	SQ	I	Z	U				
						Use concentration for "S" conclusion 6			
Methoxydiglycol Methacrylate		X					safe in nail enhancement products when skin contact is avoided; products containing this ingredient should be accompanied with directions to avoid skin contact because of the sensitizing potential of methacrylates		IJT 24(S5):53-100, 2005
Methoxyisopropanol	X					up to 35%in nail care products; fragrance use not addressed			IJT 27(S2): 25-29, 2008
Methoxyisopropyl Acetate	X					not in current use1			IJT 27(S2): 25-29, 2008
Methoxy PEG-7, -10, -16, -25, -40, -100 (Alkyl PEGs Ether report)									Tentative Amended Report 06/10 Available from CIR
4-Methoxy-m-Phenylenediamine, 4-Methoxy-m-Phenylenediamine HCl, and 4-Methoxy-m-Phenylenediamine Sulfate					X			carcinogenicity	JACT 11(4):381-422, 1992
Methyl Acetate, Propyl Acetate, Isopropyl Acetate, t-Butyl Acetate, Isobutyl Acetate, Butoxyethyl Acetate, Nonyl Acetate, Myristyl Acetate, Cetyl Acetate, Stearyl Acetate, Isostearyl Acetate, Acetic Acid, Sodium Acetate, Potassium Acetate, Magnesium Acetate, Calcium Acetate, Zinc Acetate, Propyl Alcohol, Isopropyl Alcohol									Tentative Report 06/10 Available from CIR
Methyl Alcohol		X					safe for use as a denaturant		IJT 20(S1):57-85, 2001
3-Methylamino-4-Nitrophenoxyethanol	X					up to 0.15%			IJT 27 (S2): 41-51, 2008
p-Methylaminophenol and p-Methylaminophenol Sulfate (amended)	X					up to 0.7%			Final Amended Report 12/07 Available from CIR JACT 10(1):53-65, 1991 (original report)
Methylbenzethonium Chloride		X					0.5% skin; 0.02% eye		JACT 4(5):65-106, 1985 confirmed 03/04 IJT 25(S2), 2006
Methyl Benzoate, Ethyl Benzoate, Propyl Benzoate, Butyl Benzoate, Amyl Benzoate, Lauryl/Myristyl Benzoate, C12-15 Alkyl Benzoate, C16-17 Alkyl Benzoate, Stearyl Benzoate, Behenyl Benzoate, Isopropyl Benzoate, Isobutyl Benzoate, Isostearyl Benzoate, Ethylhexyl Benzoate, Butyloctyl Benzoate, Hexyldecyl Benzoate, Octyldodecyl Benzoate									Scientific Literature Review 05/10 Available from CIR

Ingredient Name	Review Conclusion					Explanation	Concentration or other limitation on use for "SQ" conclusion	Safety concern for "U" conclusion	Journal Citation
	S	SQ	I	Z	U				
						Use concentration for "S" conclusion 6			
Methylcellulose (amended)	X					up to 20%			Amended safety assessment 03/09 - Available from CIR JACT 5(3)1-59, 1986 (original report)
Methylchloroisoiazolinone (with Methylisothiazolinone)		X					rinse-off 15 ppm; leave-on 7.5 ppm		JACT 11(1):75-128, 1992
Methyl Cocoate (amended)	X					up to 0.06%			Amended Final Report 09/08 - available from CIR
Methyldibromo Glutaronitrile		X					leave-on 0.025%		JACT 15(2):140-65, 1996
Methylene Chloride		X7					brief, discontinuous use only 7		JACT 7(6):741-835, 19887
Methyl Glycolate and Methyl Lactate		X							IJT 17(S1):1-242, 1998
Methyl Glycyrrhizate	X					not in current use1			IJT 26(S2):79-112, 2007
2-Methyl-5-Hydroxyethylaminophenol	X					up to 5%			JACT 9(2):185-202, 1990 confirmed 08/06
Methyl Isobutyl Ketone		X					safe as used in nail polish removers and as an alcohol denaturant		IJT 23(S1):29-57, 2003
Methylisothiazolinone (with Methylchloroisoiazolinone)		X					rinse-off 15 ppm; leave-on 7.5 ppm		JACT 11(1):75-128, 1992
Methylisothiazolinone (alone)		X					safe at concentrations up to 100 ppm		Final report 09/08 available from CIR
Methyl Methacrylate Crosspolymer	X					up to 14%			Final Safety Assessment 06/10 available from CIR
Methyl Methacrylate/Glycol Dimethacrylate Crosspolymer	X					up to 3%			Final Safety Assessment 06/10 available from CIR
Methylparaben (amended)	X					up to 0.4% if used alone; parabens mixture up to 0.8%			IJT 27(S4): 1-82, 2008 JACT 3(5):147-209, 1984 (original report)
2-Methyl Resorcinol	X					up to 2%			JACT 5(3):167-203, 1986 confirmed 12/06
Methyl Ricinoleate	X					not in current use1			IJT 26(S3) 2007
Methyl Salicylate		X					safe when formulated to avoid irritation and to avoid increasing sun sensitivity, or when increased sun sensitivity would be expected, directions for use include the daily use of sun protection.		IJT 22(3):1-108

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	S	SQ	I	Z	U				
						Use concentration for "S" conclusion 6			
Methyl Thioglycolate		X					in hair straighteners, permanent waves, tonics, dressings, etc., wave sets, other non-coloring hair products, and hair dyes and colors; safe at 15.2% (as thioglycolic acid); hairdressers should avoid skin contact and minimize consumer skin exposure		IJT 28(S3):68-133, 2009
MIBK		X					safe as used in nail polish removers and as an alcohol denaturant		IJT 23(S1):29-57, 2004
Microcrystalline Cellulose (amended)	X					up to 57%			Amended safety assessment 03/09 - Available from CIR
Microcrystalline Wax	X					up to 50%			JACT 3(3):43-99, 1984 confirmed 06/03 IJT 24(S1):67-74, 2005
Mink Oil (Amended)	X					up to 3%			IJT 24(S3):57-64, 2005 IJT 17(S4):71-82, 1998 (Original Report)
MIPA-Dodecylbenzenesulfonate (amended)		X					safe for use in cosmetics when formulated to be non-irritating		Amended safety assessment 03/09 - Available from CIR
Mixed Cresols (amended)				X					IJT 25(S1):29-127, 2006
Mixed Isopropanolamines		X					safe for use in cosmetic products; but should not be used in products containing N-nitrosating agents		JACT 6(1):53-76, 1987 confirmed 12/04 IJT 25(S2), 2006
Monoethanolamine		X					safe for use in rinse-off products; but should not be used in leave-on products		JACT 2(7):183-235, 1983
Montan Wax	X					up to 11%			JACT 3(3):43-99, 1984 confirmed 06/03 IJT 24(S1):67-74, 2005
Montmorillonite	X					not in current use1			IJT 22(S1):37-102, 2003
Morpholine			X						JACT 8(4):707-748, 1989
Myreth-2, -3, -4, -5, -10 (Alkyl PEG Ethers report)									Tentative Amended Report 06/10 Available from CIR
Myristamide DEA and Myristamide MEA		X					safe for use in rinse-off products; for leave-on use, OK at conc. that limit release of ethanolamines to 5%, but max. conc. of 40%; should not be used in products in which N-nitroso compounds may be formed		Final Report 8/95 Available from CIR
Myristic Acid	X					up to 50%			JACT 6(3):321-401, 1987 confirmed 06/05 IJT 25(S2), 2006



Ingredient Name	Review Conclusion					Explanation	Concentration or other limitation on use for "SQ" conclusion	Safety concern for "U" conclusion	Journal Citation
	S	SQ	I	Z	U				
						Use concentration for "S" conclusion 6			
Myristoyl Sarcosine		X					safe as used in rinse-off products; but 5% in leave-on products. Should not be used in products where N-nitroso compounds may be formed. Insufficient data to determine safety in products where these ingredients are likely to be inhaled.		IJT 20(S1):1-14, 2001
Myristyl Alcohol	X					up to 5%			JACT 7(3):359-413, 1988 confirmed 12/05
Myristyl Lactate (Amended)		X							IJT 17(S1):1-242, 1998 JACT 1(2):97-107, 1982 (Original Report)
Myristyl Myristate	X					up to 20%			JACT 1(4):55-80, 1982 confirmed 06/02 IJT 24(S1):63-67, 2005
Myristyl Salicylate		X					safe when formulated to avoid irritation and to avoid increasing sun sensitivity, or when increased sun sensitivity would be expected, directions for use include the daily use of sun protection.		IJT 22(3):1-108
Myristyl Stearate	X					up to 4%			JACT 4(5):107-46, 1985 confirmed 06/03 IJT 24(S1):21-25, 2005
<b>N</b>									
2,3-Naphthalenediol			X						JACT 7(3):353-57, 1988
1-Naphthol	X					up to 3% in hair coloring products			JACT 8(4):749-68, 1989 confirmed 12/06
Neopentyl Glycol Diisononanoate	X					1%			Final Safety Assessment 06/10 Available from CIR
Niacin and Niacinamide	X					Niacin 0.1%; Niacinamide 3%			IJT 24(S5):1-31, 2005
3-Nitro-p-Hydroxyethylaminophenol	X					up to 10% in hair coloring products			IJT 28(S3): 217-251, 2009
4-Nitro-m-Phenylenediamine				X					JACT 11(4):489-95, 1992
4-Nitro-o-Phenylenediamine and 2-Nitro-p-Phenylenediamine	X					up to 1%			JACT 4(3):161-202, 1985 confirmed 11/03 IJT 25(S2), 2006
Noneth-8 (Alkyl PEG Ethers report)									Tentative Amended Report 06/10 Available from CIR
Nonoxynol-1, -3, -5, -6, -7		X					safe as used in rinse-offs; safe at 5% in leave-ons		IJT 18(S1):11-31, 1999

Ingredient Name	Review Conclusion					Explanation	Concentration or other limitation on use for "SQ" conclusion	Safety concern for "U" conclusion	Journal Citation
	S	SQ	I	Z	U				
						Use concentration for "S" conclusion 6			
Nonoxynol-2, -4, -8 (Amended)		X					safe as used in rinse-offs; safe at 5% in leave-ons		IJT 18(S1):11-31, 1999 JACT 2(7):35-60, 1983 (Original Report)
Nonoxynol-9	X					up to 50%			JACT 2(7):35-60, 1983
Nonoxynol-10, -50	X					up to 25%			JACT 2(7):35-60, 1983
Nonoxynol-12	X					up to 5%			JACT 2(7):35-60, 1983
Nonoxynol-14	X					up to 1%			JACT 2(7):35-60, 1983
Nonoxynol-15, -30	X					0.1%			JACT 2(7):35-60, 1983
Nonoxynol-40	X					not in current use1			JACT 2(7):35-60, 1983
<b>O</b>									
Octoxynol-1		X				up to 30% in permanent waves, lower for other uses	safe as used in rinse-off products; safe at 5% in leave-on products		IJT 23(S1):59-111, 2004
Octoxynol-3 and -5		X				not reported2	safe as used in rinse-off products; safe at 5% in leave-on products		IJT 23(S1):59-111, 2004
Octoxynol-6, -7, and -8		X				not in current use1	safe as used in rinse-off products; safe at 5% in leave-on products		IJT 23(S1):59-111, 2004
Octoxynol-9	X					up to 5%			IJT 23(S1):59-111, 2004
Octoxynol-10	X					up to 25% in hair bleaches			IJT 23(S1):59-111, 2004
Octoxynol-11	X					up to 1%			IJT 23(S1):59-111, 2004
Octoxynol-13 and -30	X					up to 2%			IJT 23(S1):59-111, 2004
Octoxynol-40	X					up to 0.02%			IJT 23(S1):59-111, 2004
Octoxynol-12, -16, -20, -25, -33, and -70	X					not in current use1			IJT 23(S1):59-111, 2004
Octoxynol-9 and -20 Carboxylic Acid	X					not in current use1			IJT 23(S1):59-111, 2004
Octyldodecanol	X					up to 85%			JACT 4(5):1-29, 1985 confirmed 03/04 IJT 25(S2), 2006
Octyldodeceth-2, -5, -10, -16, -20, -25, -30 (Alkyl PEG Ethers report)									Tentative Amended Report 06/10 Available from CIR
Octyldodecyl Cocoate (amended)	X					not in current use1			Amended Final Report 09/08 - available from CIR
Octyldodecyl Ricinoleate	X					up to 5%			IJT 26(S3) 2007
Octyldodecyl Stearoyl Stearate (amended)	X					up to 15%			IJT 24(S#):65-74, 2005 IJT 20(S3):51-59, 2001 (Original report)

Ingredient Name	Review Conclusion					Explanation	Concentration or other limitation on use for "SQ" conclusion	Safety concern for "U" conclusion	Journal Citation
	S	SQ	I	Z	U				
						Use concentration for "S" conclusion 6			
Octyl Palmitate	X					up to 46%			JACT 1(2):13-35, 1982 confirmed 09/01 IJT 24(S1):28-32, 2005
Octyl Stearate	X					up to 11%			JACT 4(5):107-46, 1985 confirmed 06/03 IJT 24(S1):21-25, 2005
Oils derived from edible nuts: Aleurites Moluccana Seed Oil, Aleurites Moluccanus Bakoly Seed Oil, Anacardium Occidentale (Cashew) Seed Oil, Arachis Hypogaea (Peanut) Oil, Bertholletia Excelsa Seed Oil, Butyrospermum Parkii (Shea) Butter, Butyrospermum Parkii (Shea) Butter Unsaponifiables, Butyrospermum Parkii (Shea) Oil, Canarium Indicum Seed Oil, Carya Illinoensis (Pecan) Seed Oil, Coconut Acid, Cocos Nucifera (Coconut) Oil, Cocos Nucifera (Coconut) Seed Butter, Corylus Americana (Hazel) Seed Oil, Corylus Avellana (Hazel) Seed Oil, Gevuina Avellana Oil, Hydrogenated Coconut Acid, Hydrogenated Coconut Oil, Hydrogenated Hazelnut Oil, Hydrogenated Kukui Nut Oil, Hydrogenated Macadamia Seed Oil, Hydrogenated Peanut Oil, Hydrogenated Pistachio Seed Oil, Hydrogenated Shea Butter, Hydrogenated Sweet Almond Oil, Hydrogenated Sweet Almond Oil Unsaponifiables, Juglans Regia (Walnut) Seed Oil, Macadamia Integrifolia Seed Oil, Macadamia Ternifolia Seed Oil, Magnesium Cocoate, Peanut Acid, Pistacia Vera Seed Oil [Pistachio], Plukenetia Volubilis Seed Oil [Sacha Inchi], Potassium Cocoate, Potassium Hydrogenated Cocoate, Potassium Peanutate, Prunus Amygdalus Amara (Bitter Almond) Kernel Oil, Prunus Amygdalus Dulcis (Sweet Almond) Oil, Schinziophyton Rautanenii Kernel Oil [Mongongo], Sodium Cocoate, Sodium Hydrogenated Cocoate, Sodium									Scientific Literature Review 05/10 Available from CIR
Oleamide DEA		X				up to 25%	safe for use in cosmetic products; but should not be used as an ingredient in cosmetic products containing nitrosating agents		JACT 5(5):415-454, 1986
Oleic Acid	X					up to 50%			JACT 6(3):321-401, 1987 confirmed 06/05 IJT 25(S2), 2006
Oleoyl Sarcosine		X					safe as used in rinse-off products; but 5% in leave-on products. Should not be used in products where N-nitroso compounds may be formed. Insufficient data to determine safety in products where these ingredients are likely to be inhaled.		IJT 20(S1):1-14, 2001

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	S	SQ	I	Z	U				
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Oleth-2, -3, -5, -8, -9, -15, -20, -25, -30 (Alkyl PEG Ethers report)	X					up to 12%			IJT 18(S2):17-24, 1999 Tentative Amended Report 06/10 Available from CIR
Oleth-4, -6, -7, -11, -12, -23, -40, -44, -50,	X					not in current use1			IJT 18(S2):17-24, 1999 Tentative Amended Report 06/10 Available from CIR
Oleth-10	X					up to 6%			IJT 18(S2):17-24, 1999 Tentative Amended Report 06/10 Available from CIR
Oleth-16	X					up to 5%			IJT 18(S2):17-24, 1999 Tentative Amended Report 06/10 Available from CIR
Oleth-24, -35, -45, -82, -100, -106 (Alkyl PEG Ethers report)									Tentative Amended Report 06/10 Available from CIR
Oleth Alcohol	X					up to 62%			JACT 4(5):1-29, 1985 confirmed 03/04 IJT 25(S2), 2006
Oryza Sativa (Rice) Bran, Oryza Sativa (Rice) Bran Acid, Oryza Sativa (Rice) Bran Wax, Oryza Sativa (Rice) Bran Extract, and Oryza Sativa (Rice) Extract	X					not in current use1	These rice derived ingredients as used in products should not contain significant levels of pesticide residues or heavy metals		IJT 25(S2):91-120, 2006
Oryza Sativa (Rice) Bran Oil	X					up to 39%	These rice derived ingredients as used in products should not contain significant levels of pesticide residues or heavy metals		IJT 25(S2):91-120, 2006
Oryza Sativa (Rice) Germ Oil	X					up to 0.1%	These rice derived ingredients as used in products should not contain significant levels of pesticide residues or heavy metals		IJT 25(S2):91-120, 2006
Oryza Sativa (Rice) Germ Powder and Oryza Sativa (Rice) Starch	X					up to 97%	These rice derived ingredients as used in products should not contain significant levels of pesticide residues or heavy metals		IJT 25(S2):91-120, 2006
Oxyquinoline and Oxyquinoline Sulfate (Amended)		X					Safe for use as stabilizers for hydrogen peroxide in rinse-off hair products; insufficient data for leave-on uses		IJT 25(S1):1-9, 2006 JACT 11(4):497-507, 1992 (original report)
Ozokerite	X					up to 22%			JACT 3(3):43-99, 1984 confirmed 06/03
<b>P</b>									
Palm (Elaeis Guineensis) Oil	X					up to 2%			IJT 19(S2):7-28, 2000

Ingredient Name	Review Conclusion					Explanation	Concentration or other limitation on use for "SQ" conclusion	Safety concern for "U" conclusion	Journal Citation
	S	SQ	I	Z	U				
						Use concentration for "S" conclusion 6			
Palmeth-2 (Alkyl PEG Ethers report)									Tentative Amended Report 06/10 Available from CIR
Palmitic Acid	X					up to 25%			JACT 6(3):321-401, 1987 confirmed 06/05
Palm Kernel (Elaeis Guineensis) Oil	X					up to 25%			IJT 19(S2):7-28, 2000
Panthenol	X					up to 6%			JACT 6(1):139-62, 1987 confirmed 12/04 IJT 25(S2), 2006
Pantothenic Acid	X					up to 0.01%			JACT 6(1):139-62, 1987 confirmed 12/04 IJT 25(S2), 2006
Paraffin	X					up to 99%			JACT 3(3):43-99, 1984 confirmed 06/03 IJT 24(S1):67-74, 2005
PCA		X					should not be used in products containing N-nitrosating agents		IJT 18(S2):25-34
Peanut Acid and Peanut Glycerides	X					not in current use1			IJT 20(S2):65-77, 2001
Peanut (Arachis Hypogaea) Flour				X					IJT 20(S2):65-77, 2001
Peanut (Arachis Hypogaea) Oil	X					up to 25%			IJT 20(S2):65-77, 2001
PEG≥4	X					because PEGs of various chain lengths are likely to be added to the International Cosmetic Ingredient Dictionary and Handbook in the future, the CIR Expert Panel concluded that any PEG≥4 would be safe for use in cosmetics			Amended Final Report 06/10 - available from CIR
PEG-4	X					up to 67%			Amended Final Report 06/10 - available from CIR
PEG-6	X					up to 51%			Amended Final Report 06/10 - available from CIR
PEG-7, -16, -18, -33, -45, -55, -60, -80, -90, -100, -135, -200, -500, -800, -9M, -25M, -65M, -115M, and -160M	X					not in current use1			Amended Final Report 06/10 - available from CIR
PEG-8	X					up to 85%			Amended Final Report 06/10 - available from CIR
PEG-9	X					up to 0.9%			Amended Final Report 06/10 - available from CIR
PEG-10	X					up to 0.2%			Amended Final Report 06/10 - available from CIR
PEG-12	X					up to 56%			Amended Final Report 06/10 - available from CIR
PEG-14	X					up to 2%			Amended Final Report 06/10 - available from CIR

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	S	SQ	I	Z	U				
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PEG-20	X					up to 27%			Amended Final Report 06/10 - available from CIR
PEG-32	X					up to 15%			Amended Final Report 06/10 - available from CIR
PEG-40, PEG-150	X					up to 6%			Amended Final Report 06/10 - available from CIR
PEG-75	X					up to 36%			Amended Final Report 06/10 - available from CIR
PEG-90	X					up to 21%			Amended Final Report 06/10 - available from CIR
PEG-180	X					up to 5%			Amended Final Report 06/10 - available from CIR
PEG-220	X					up to 0.4%			Amended Final Report 06/10 - available from CIR
PEG-240	X					up to 10%			Amended Final Report 06/10 - available from CIR
PEG-350, 450	X					up to 1%			Amended Final Report 06/10 - available from CIR
PEG-400, PEG-20M	X					up to 3%			Amended Final Report 06/10 - available from CIR
PEG-2M, PEG-7M, PEG-14M	X					up to 0.5%			Amended Final Report 06/10 - available from CIR
PEG-5M	X					up to 0.01%			Amended Final Report 06/10 - available from CIR
PEG-23M	X					up to 0.05%			Amended Final Report 06/10 - available from CIR
PEG-45M, PEG-90M	X					up to 0.3%			Amended Final Report 06/10 - available from CIR
PEG-180M	X					up to 0.08%			Amended Final Report 06/10 - available from CIR
PEG-30, -33, -35, -36, -40 Castor Oil		X					up to 50%		IJT 16(S3):269-306, 1997

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	S	SQ	I	Z	U				
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PEG-16 Cetyl/Oleyl/Stearyl/Lanolin Alcohol Ether (Alkyl PEG Ethers report)									Tentative Amended Report 06/10 Available from CIR
PEG-Cetyl Stearyl Diether (Alkyl PEG Ethers report)									Tentative Amended Report 06/10 Available from CIR
PEG-5 and -15 Cocamine			X						IJT 18(S1):11-31, 1999
PEG-2, -3, -10, and -20 Cocamine				X					IJT 18(S1):11-31, 1999
PEG-2 Diisononanoate	X					2%			Final Safety Assessment 06/10 Available from CIR
PEG-4 Distearyl Ether and PEG-4 Ditallow Ether (Alkyl PEG Ethers report)									Tentative Amended Report 06/10 Available from CIR
PEG-5 Isononanoate	X					1%			Final Safety Assessment 06/10 Available from CIR
PEG-2, -4, -6, -8, -12, -20, -32, -75, -150 Dilaurate		X					up to 25%		IJT 19(S2):29-41, 2000
PEG-4 Dimethacrylate		X					safe in nail enhancement products when skin contact is avoided; products containing this ingredient should be accompanied with directions to avoid skin contact because of the sensitizing potential of methacrylates		IJT 24(S5):53-100, 2005
PEG-3 Dimethicone, PEG-9 Dimethicone, PEG-14 Dimethicone, and PEG-17 Dimethicone	X					not reported <sup>2</sup>			JACT 1(4):33-54, 1982 confirmed 02/03 IJT 24(S1):42-44, 2005
PEG-7 Dimethicone	X					2%			JACT 1(4):33-54, 1982 confirmed 02/03 IJT 24(S1):42-44, 2005
PEG-8 Dimethicone	X					up to 1%			JACT 1(4):33-54, 1982 confirmed 02/03 IJT 24(S1):42-44, 2005
PEG-10 Dimethicone	X					21%			JACT 1(4):33-54, 1982 confirmed 02/03 IJT 24(S1):42-44, 2005
PEG-12 Dimethicone	X					up to 4%			JACT 1(4):33-54, 1982 confirmed 02/03 IJT 24(S1):42-44, 2005
PEG-2, -3, -4, -6, -8, -12, -20, -32, -50, -150 Distearate	X					up to 5%			IJT 19(S1):51-59, 1999
PEG-9, -75, -120, -175 Distearate	X					not in current use <sup>1</sup>			IJT 19(S1):51-59, 1999
PEG-7, -30, -40, -78, -80 Glyceryl Cocoate		X					Safe as used in rinse-off products and safe up to 10% in leave-on products		IJT 19(S1):51-59, 1999
PEG-30 and -40 Hydrogenated Castor Oil		X					up to 100%		IJT 16(S3):269-306, 1997
PEG-5, -10, -70 Hydrogenated Lanolin	X					not in current use <sup>1</sup>			IJT 18(S1):61-68, 1999
PEG-20, -24, -30 Hydrogenated Lanolin	X					up to 5%			IJT 18(S1):61-68, 1999

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	S	SQ	I	Z	U				
PEG-15, -26, -40 Jojoba Alcohol						Use concentration for "S" conclusion 6			Tentative Amended Report 06/10 Available from CIR
PEG-5, -24, -25, -100 Lanolin	X					up to 5%			IJT 18(S1):61-68, 1999
PEG-10, -35, -55, -150 Lanolin	X					not in current use1			IJT 18(S1):61-68, 1999
PEG-20, -60, -85 Lanolin	X					up to 10%			JACT 1(4):91-102, 1982
PEG-27, -40, -50 Lanolin	X					up to 5%			JACT 1(4):91-102, 1982
PEG-30 Lanolin	X					up to 1%			JACT 1(4):91-102, 1982
PEG-75 Lanolin	X					up to 25%			JACT 1(4):91-102, 1982
PEG-75 Lanolin Oil	X					up to 5%			IJT 18(S1):61-68, 1999
PEG-75 Lanolin Wax	X					not in current use1			IJT 18(S1):61-68, 1999
PEG-2, -4, -6, -8, -9, -10, -12, -14, -20, -32, -75, -150, -200 Laurate and PEG-2 Laurate SE		X					up to 25%		IJT 19(S2):29-41, 2000
PEG-3, -4, -6, -7 Methyl Ether (Alkyl PEGs Ether report)									Tentative Amended Report 06/10 Available from CIR
PEG/PPG-4/12 Dimethicone and PEG/PPG-14/4 Dimethicone	X					up to 1%			JACT 1(4):33-54, 1982 confirmed 02/03 IJT 24(S1):42-44, 2005
PEG/PPG-17/18 Dimethicone	X					up to 0.2%			JACT 1(4):33-54, 1982 confirmed 02/03 IJT 24(S1):42-44, 2005
PEG/PPG-18/18 Dimethicone	X					up to 10%			JACT 1(4):33-54, 1982 confirmed 02/03 IJT 24(S1):42-44, 2005
PEG/PPG-20/6 Dimethicone	X					up to 0.3%			JACT 1(4):33-54, 1982 confirmed 02/03 IJT 24(S1):42-44, 2005
PEG/PPG-20/15 Dimethicone	X					up to 0.08%			JACT 1(4):33-54, 1982 confirmed 02/03 IJT 24(S1):42-44, 2005
PEG/PPG-22/23 Dimethicone	X					0.005%			JACT 1(4):33-54, 1982 confirmed 02/03 IJT 24(S1):42-44, 2005
PEG/PPG-3/10 Dimethicone, PEG/PPG-6/11 Dimethicone, PEG/PPG-8/14 Dimethicone, PEG/PPG-15/15 Dimethicone, PEG/PPG-16/2 Dimethicone, PEG/PPG-19/19 Dimethicone, PEG/PPG-20/20 Dimethicone, PEG/PPG-20/23 Dimethicone, PEG/PPG-20/29 Dimethicone, PEG/PPG-22/24 Dimethicone, PEG/PPG-23/6 Dimethicone,	X					not reported2			JACT 1(4):33-54, 1982 confirmed 02/03 IJT 24(S1):42-44, 2005



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	S	SQ	I	Z	U				
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PEG-10 Propylene Glycol, PEG-75 and -120 Propylene Glycol Stearate	X					not in current use1			IJT 20(S4):13-26, 2001
PEG-8 Propylene Glycol Cocoate, PEG-25 Propylene Glycol Stearate	X					1-5%			IJT 20(S4):13-26, 2001
PEG-55 Propylene Glycol Oleate	X					up to 10%			IJT 20(S4):13-26, 2001
PEG-7, -8 Propylheptyl Ether									Tentative Amended Report 06/10 Available from CIR
PEG-6 Sorbitan Beeswax and PEG-8 Sorbitan Beeswax		X				not in current use1	safe for use in the present practices of use, except that cosmetic formulations containing PEG-6, -20, and -75 should not be used on damaged skin10		IJT 20(S4):27-38, 2001
PEG-20 Sorbitan Beeswax		X				up to 11%	safe for use in the present practices of use, except that cosmetic formulations containing PEG-6, -20, and -75 should not be used on damaged skin10		IJT 20(S4):27-38, 2001
	X					not in current use1			IJT 19(S2):43-89, 2000
PEG-20 Sorbitan Isostearate	X					1-10%			IJT 19(S2):43-89, 2000
PEG-40 Sorbitan Lanolate	X					0.1-1%			IJT 19(S2):43-89, 2000
PEG-75 Sorbitan Lanolate	X					up to 10%			IJT 19(S2):43-89, 2000
PEG-10 Sorbitan Laurate	X					10%			IJT 19(S2):43-89, 2000
PEG-44 and -75 Sorbitan Laurate	X					1-5%			IJT 19(S2):43-89, 2000
PEG-80 Sorbitan Laurate	X					not reported2			IJT 19(S2):43-89, 2000
PEG-40 Sorbitan Peroleate	X					up to 25%			IJT 19(S2):43-89, 2000
PEG-40 and -60 Sorbitan Tetraoleate and PEG-160 Sorbitan Triisostearate	X					.5-10%			IJT 19(S2):43-89, 2000
PEG-40 and -50 Sorbitol Hexaoleate (aka Sorbeth-40 and -50 Hexaoleate)	X					not reported2			IJT 19(S2):43-89, 2000
PEG-30 Sorbitol Tetraoleate Laurate (aka Sorbeth Tetraoleate Laurate)	X					not reported2			IJT 19(S2):43-89, 2000
PEG-60 Sorbitol Tetrastearate (aka Sorbeth Tetrastearate)	X					not reported2			IJT 19(S2):43-89, 2000
PEG-5, -10, and -25 Soy Sterol	X					up to 2%			IJT 23(S2):23-47, 2004
PEG-16 Soy Sterol	X					up to 0.5%			IJT 23(S2):23-47, 2004
PEG-30 and -40 Soy Sterol	X					not in current use1			IJT 23(S2):23-47, 2004
PEG-2 Stearate	X					up to 2%			JACT 2(7):17-60, 1983 confirmed 11/02 IJT 24(S1):74-80, 2005
PEG-8 Stearate	X					up to 3%			JACT 2(7):17-60, 1983 confirmed 11/02 IJT 24(S1):74-80, 2005
PEG-12 Stearate	X					up to 1%			JACT 2(7):17-60, 1983 confirmed 11/02 IJT 24(S1):74-80, 2005
PEG-20 Stearate	X					up to 4%			JACT 2(7):17-60, 1983 confirmed 11/02 IJT 24(S1):74-80, 2005

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PEG-40 Stearate	X					up to 7%			JACT 2(7):17-60, 1983 confirmed 11/02 IJT 24(S1):74-80, 2005
PEG-50 Stearate	X					up to 9%			JACT 2(7):17-60, 1983 confirmed 11/02 IJT 24(S1):74-80, 2005
PEG-100 Stearate	X					up to 25%			JACT 2(7):17-60, 1983 confirmed 11/02 IJT 24(S1):74-80, 2005
PEG-5, -10, -30, -55, -75, -90 Stearate	X					not reported2			JACT 2(7):17-60, 1983 confirmed 11/02 IJT 24(S1):74-80, 2005
Pelargonic Acid (aka nonanoic acid)	X					not in current use1			Final Report 06/10 - available from CIR
Pentaerythrityl Cocoate (amended)	X					not reported2			Amended Final Report 09/08 - available from CIR
Pentaerythrityl Tetraisononanoate	X					1 - 2%			Final Safety Assessment 06/10 Available from CIR
Pentaerythrityl Tetrapelargonate	X					2%			Final Safety Assessment 06/10 Available from CIR
Pentaerythrityl Rosinate (aka Pentaerythritol Rosinate) (Amended)			X						IJT (S4):83-94, 1998 JACT 13(5):395-9, 1994 (Original Report)
Pentasodium Pentetate	X					up to 3%			IJT 27 (S2): 71-92, 2008
Pentetic Acid	X					up to 0.03%			IJT 27 (S2): 71-92, 2008
Persea Gratissima (Avocado) Oil	X					up to 23%			JEPT 4(4):93-103, 1980 confirmed 06/01 IJT 22(S1):1-35, 2003
Petroleum Distillates (aka Petroleum Distillate)	X					up to 82%			JACT 5(3):225-248, 1986 confirmed 12/06
Phenethyl Alcohol		X					1%		JACT 9(2):165-83, 1990 confirmed 08/06
Phenoxyethanol	X					up to 5%			JACT 9(2):259-77, 1990
m-Phenylenediamine and m-Phenylenediamine Sulfate		X					10% in hair dyes		IJT 16(S1):59-116,1997
p-Phenylenediamine (amended)	X					up to 0.04%			Final Amended Report 12/07 Available from CIR JACT 4(3):203-66, 1985 (original report)
p-Phenylenediamine HCl and p-Phenylenediamine Sulfate (amended)	X					not in current use 1			Final Amended Report 12/07 Available from CIR JACT 4(3):203-66, 1985 (original report)

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Phenyl Methyl Pyrazolone	X					up to 1%			JACT 11(4):475-88, 1992
N-Phenyl-p-Phenylenediamine, N-Phenyl-p-Phenylenediamine HCl, and N-Phenyl-p-Phenylenediamine Sulfate		X					1.7% as the free base		JACT 13(5):374-94, 1994
Phenyl Trimethicone	X					up to 36%			JACT 5(5):353-71, 1986 confirmed 06/04 IJT 25(S2), 2006
Phloroglucinol				X					JACT 14(6):468-75, 1995
Phytantriol	X					up to 3%			IJT 26(S1):107-114, 2007
Phytosteryl Nonanoate	X					not in current use 1			Final Safety Assessment 06/10 Available from CIR
Picramic Acid		X					not to exceed 0.1%		IJT 28(S3): 205-216, 2009
Piper Methysticum Leaf/Root/Stem Extract			X						IJT 28(S2): 175-188, 2009
Piper Methysticum Root Extract				X					IJT 28(S2): 175-188, 2009
Placental Enzymes, Placental Lipids, and Placental Proteins			X				if used, should not deliver any metabolic/endocrine activity, and they must be free of detectable pathogenic viruses or infectious agents		IJT 21(S1):81-91, 2002
Poloxamer 105	X					up to 3%			IJT 27 (S2): 93-128, 2008
Poloxamer 181 and 182	X					up to 6%			IJT 27 (S2): 93-128, 2008
Poloxamer 184 and 234	X					up to 10%			IJT 27 (S2): 93-128, 2008
Poloxamer 185	X					up to 9%			IJT 27 (S2): 93-128, 2008
Poloxamer 188 and 212	X					up to 2%			IJT 27 (S2): 93-128, 2008
Poloxamer 217, 237, 238, 335, 338, and 401	X					not reported 2			IJT 27 (S2): 93-128, 2008
Poloxamer 333	X					1%			IJT 27 (S2): 93-128, 2008
Poloxamer 334	X					0.3%			IJT 27 (S2): 93-128, 2008
Poloxamer 407	X					up to 20%			IJT 27 (S2): 93-128, 2008
Poloxamer 101, 108, 122, 123, 124, 183, 215, 231, 235, 282, 284, 288, 331, 402, 403, Poloxamer 105 Benzoate and Poloxamer 182 Benzoate	X					not in current use 1			IJT 27 (S2): 93-128, 2008
Polyacrylamide (Amended)		X					safe if the level of acrylamide monomer in formulation is not greater than 5ppm		IJT 24(S2):21-50, 2005 JACT 10(1):193-203, 1991 (Original Report)

Ingredient Name	Review Conclusion					Explanation	Concentration or other limitation on use for "SQ" conclusion	Safety concern for "U" conclusion	Journal Citation
	S	SQ	I	Z	U				
						Use concentration for "S" conclusion 6			
Polyacrylic Acid		X					safe for use when formulated to avoid irritation		IJT 21(S3):1-50, 2002
Polyamino Sugar Condensate	X					up to 1%			JACT 1(4):25-32, 1982 confirmed 02/02 IJT 24(S1):80-81, 2005
Polybutene	X					up to 92%			JACT 1(4):103-18, 1982 confirmed 06/02 IJT 24(S1):81-82, 2005
Polyethylene	X					0.09 - 24%			IJT 26(S1):115-127, 2007
Polyglyceryl-20 Octaiononanoate	X					3%			Final Safety Assessment 06/10 Available from CIR
Polyisobutene	X					up to 76%			IJT 27(S4): 83-106, 2008
Polymethyl Methacrylate (PMMA)	X					up to 30%			Final Safety Assessment 06/10 available from CIR
Polyoxymethylene Melamine				X					JACT 14(5):373-85, 1995
Polyoxymethylene Urea		X					concentration of free formaldehyde should be 0.2%; unsafe for aerosols		JACT 14(3):204-20, 1995 confirmed 12/09
Polyquaternium-7	X					up to 5%			JACT 14(6):476-84, 1995
Polyquaternium-10	X					up to 5%			JACT 7(3): 335-51, 1988 confirmed 09/05
Polyquaternium-11	X					up to 10%			JACT 2(5):161-78, 1983 confirmed 11/02 IJT 24(S1):82-83, 2005
Polysorbate-20, -85	X					> 50%			JACT 3(5):1-82, 1984
Polysorbate-21	X					up to 1%			JACT 3(5):1-82, 1984
Polysorbate-40	X					up to 10%			JACT 3(5):1-82, 1984
Polysorbate-60, -80	X					up to 25%			JACT 3(5):1-82, 1984
Polysorbate-61, -65, -81	X					up to 5%			JACT 3(5):1-82, 1984
Polyvinyl Acetate (Amended)	X								JACT 15(2):166-76, 1996 JACT 11(4):465-73, 1992 (Original Report)
Polyvinyl Alcohol	X					up to 10%			IJT 17(S5):67-94, 1998
Potassium Aluminum Polyacrylate		X					safe for use when formulated to avoid irritation		IJT 21(S3):1-50, 2002
Potassium Ascorbyl Tocopheryl Phosphate	X					0.02%			IJT 21(S3):51-116, 2002
Potassium Bromate		X					10.17% (calculated as Sodium Bromate)		JACT 13(5):400-14, 1994

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Potassium Butyl Ester of PVM/MA Copolymer (Amended)	X					not in current use1			Amended Final Report 06/09 Available from CIR JACT 12(3):243-56, 1993 (original report)
Potassium Chlorate				X					JACT 14(3):221-30, 1995
Potassium Cocoate (amended)	X					up to 40%			Amended Final Report 09/08 - available from CIR
Potassium Cocoyl Hydrolyzed Collagen (formerly Potassium-Coco-Hydrolyzed Animal Protein)	X					up to 20%			JACT 2(7):75-86, 1983 confirmed 11/02 IJT 24(S1):82-85, 2005
Potassium Cornate	X					not in current use1			Final Report 09/08 available from CIR
Potassium Dodecylbenzenesulfonate (amended)		X					safe for use in cosmetics when formulated to be non-irritating		Amended safety assessment 03/09 - Available from CIR
Potassium Ethyl Ester of PVM/MA Copolymer (amended)	X					not in current use1			Amended Final Report 06/09 Available from CIR JACT 12(3):243-56, 1993 (original report)
Potassium Cumenesulfonate, Potassium Toluenesulfonate, Potassium Xylenesulfonate	X					not in current use1			Final Report 09/09 available from CIR
Potassium Glycolate and Potassium Lactate		X							IJT 17(S1):1-242, 1998
Potassium Glycyrrhetinate	X					up to 1%			IJT 26(S2):79-112, 2007
Potassium Glycyrrhizinate	X					not in current use1			IJT 26(S2):79-112, 2007
Potassium Hyaluronate	X					not reported2			IJT 28 (1): 5-67, 2009
Potassium Hydrogenated Cocoate (amended)	X					not in current use1			Amended Final Report 09/08 - available from CIR
Potassium Metabisulfite	X					not reported2			IJT 22(S2):63-88, 2003
Potassium Octoxynol-12 Phosphate	X					up to 0.05%			IJT 23(S1):59-111, 2004
Potassium Persulfate		X					safe as oxidizing agents in hair colorants and lighteners designed for brief, discontinuous use followed by thorough rinsing from hair and skin		IJT 20(S3):7-21, 2001
Potassium Polyacrylate		X					safe for use when formulated to avoid irritation		IJT 21(S3):1-50, 2002
Potassium Ricinoleate	X					not in current use1			IJT 26(S3) 2007

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Potassium Salicylate		X					safe when formulated to avoid irritation and to avoid increasing sun sensitivity, or when increased sun sensitivity would be expected, directions for use include the daily use of sun protection.		IJT 22(3):1-108
Potassium Silicate		X				not reported <sup>2</sup>	safe for use when formulated to avoid skin irritation		IJT 24(S1):103-117, 2005
Potassium Sorbate	X					up to 7%			JACT 7(6):837-80, 1988 confirmed 04/06
Potassium Stearate	X					up to 12%			JACT 1(2):143-77, 1982 confirmed 11/01 IJT 22(S1):1-35, 2003
Potassium Sulfite	X					not reported <sup>2</sup>			IJT 22(S2):63-88, 2003
Potassium Tallate	X					not reported <sup>2</sup>			IJT 28(S3):252-258, 2009
Potassium Thioglycolate		X							IJT 28(S3):68-133, 2009
PPG <sub>≥3</sub> (PPG = Polypropylene Glycol)		X				because PPGs of various chain lengths are likely to be added to the International Cosmetic Ingredient Dictionary and Handbook in the future, the CIR Expert Panel concluded that any PPG <sub>≥3</sub> would be safe for use in cosmetics safe when formulated to be non-irritating			Amended Final Safety Assessment - 06/10 Available from CIR
PPG-3, -7, -9, -12, -13, -15, -16, -17, -20, -26, -30, -33, -34, 51, -52 and -69		X					safe when formulated to be non-irritating		JACT 13(6):437-91, 1994. Amended Final Safety Assessment - 06/10 Available
PPG-9-Buteth-12	X					not in current use <sup>1</sup>			IJT 19(S1):47-67, 2000
PPG-12-Buteth-16	X					up to 31%			IJT 19(S1):47-67, 2000
PPG-26-Buteth-26	X					2.5%			IJT 19(S1):47-67, 2000
PPG-28-Buteth-35	X					22%			IJT 19(S1):47-67, 2000
PPG-2, -4, -5, -9, -12, -14, -15, -16, -17, -18, -20, -22, -24, -26, -30, -33, -40, -52 and -53 Butyl Ether		X							IJT 20(S4):39-52, 2001
PPG-9 and PPG-25 Diethylmonium Chloride			X						IJT 18(S3):57-59, 1999
PPG-40 Diethylmonium Chloride				X					IJT 18(S3):57-59, 1999
PPG-5 Lanolin Wax	X					up to 12.1%			IJT 16(S3):307-316, 1997
PPG-5 Lanolin Wax Glyceride	X					up to 18%			IJT 16(S3):307-316, 1997
PPG-2 Methyl Ether	X					up to 2%			IJT 28(S2): 162-174, 2009
PPG-3 Methyl Ether	X					not reported <sup>2</sup>			IJT 28(S2): 162-174, 2009
PPG-2 Methyl Ether Acetate	X					not in current use <sup>1</sup>			IJT 28(S2): 162-174, 2009
PPG-11 and -15 Stearyl Ether	X					2-10%			IJT 20(S4):53-59, 2001
Propane	X					up to 24%			JACT 1(4):127-42, 1982 confirmed 06/02 IJT 24(S1):52-55, 2005

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Propylene Carbonate	X					up to 6%			JACT 6(1):23-51, 1987 confirmed 09/04 IJT 25(S2), 2006
Propylene Glycol		X					safe when formulated to be non-irritating.		JACT 13(6):437-91, 1994 reopened 12/09 tentative amended report 04/10 available from CIR
Propylene Glycol Dicaprylate	X					up to 50%			IJT 18(S2):35-52, 1999
Propylene Glycol Diisononanoate	X					not in current use 1			Final Safety Assessment 06/10 Available from CIR
Propylene Glycol Stearate and Propylene Glycol Stearate SE	X					up to 25%			JACT 2(5):101-124, 1983 confirmed 09/02 IJT 24(S1):85-87, 2005
Propyl Gallate (Amended)		X					0.1%		IJT 26(S3) 2007 JACT 4(3):23-64, 1985 (original report)
Propyl Glycolate		X							IJT 17(S1):1-242, 1998
Propylparaben (amended)	X					up to 0.4% if used alone; parabens mixture up to 0.8%			IJT 27(S4): 1-82, 2008 JACT 3(5):147-209, 1984 (original report)
Prunus Amygdalus Dulcis Seed Meal	X					up to 27%			JACT 2(5):85-99, 1983 confirmed 11/02 IJT 24(S1):98-101, 2005
Prunus Amygdalus Dulcis Oil	X					up to 76%			JACT 2(5):85-99, 1983 confirmed 11/02 IJT 24(S1):98-101, 2005
PVM/MA Copolymer (amended)	X					up to 14%			Amended Final Report 06/09 Available from CIR
PVP	X					up to 35%			IJT 17 (S4):95-130, 1998
PVP/Dimethylaminoethyl Methacrylate Copolymer		X					safe for use when formulated to avoid irritation		IJT 21(S3):1-50, 2002
PVP/VA Copolymer	X					> 50%			JACT 2(5):141-59, 1983 confirmed 09/03 IJT 25(S2), 2006
Pyrocatechol (Amended)			X		X			carcinogen; potential co-carcinogen. NOTE: for hair dyes, "insuff. data to support safety."	IJT 16(S1):11-58,1997 JACT 5(3):123-65, 1986 (Original Report)
Pyrogallol	X					up to 5%			JACT 10(1):67-85, 1991

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Pyromellitic Glycidyl Dimethacrylate		X					safe in nail enhancement products when skin contact is avoided; products containing this ingredient should be accompanied with directions to avoid skin contact because of the sensitizing potential of methacrylates		IJT 24(S5):53-100, 2005
Pyrophyllite	X					not in current use1			IJT 22(S1):37-102, 2003
<b>Q</b>									
Quassin				X					IJT 27 (S1):1-43, 2008
Quaternium-15 (amended)		X					safe at concentrations not to exceed 0.2%		Amended safety assessment 03/09 - Available from CIR JACT 5(3):61-101, 1986 (original report)
Quaternium-18	X					up to 2%			JACT 1(2):71-83, 1982 confirmed 11/01 IJT 22(S1):1-35, 2003
Quaternium-18 Bentonite	X					up to 9%			JACT 1(2):71-83, 1982 confirmed 11/01 IJT 22(S1):1-35, 2003
Quaternium-18 Hectorite	X					up to 19%			JACT 1(2):71-83, 1982 confirmed 11/01 IJT 22(S1):1-35, 2003
Quaternium-22	X					up to 2%			JACT 14(6):485-97, 1995 confirmed 04/10
Quaternium-26		X					should not be used in products in which N-nitroso compounds may be formed		IJT 19(S1):69-75, 2000
<b>R</b>									
Resorcinol	X					up to 5%			JACT 5(3):167-203, 1986 confirmed 12/06
Retinol and Retinyl Palmitate	X					up to 5%			JACT 6(3):279-320, 1987 confirmed 06/05
Rhus Succedanea Fruit Wax	X					up to 34%			JACT 3(3):1-41, 1984 confirmed 06/03 IJT 24(S1):48-52, 2005
Ricinoleic Acid	X					not reported2			IJT 26(S3) 2007
Ricinus Communis (Castor) Seed Oil	X					up to 81%			IJT 26(S3) 2007
<b>S</b>									
Safflower (Carthamus Tinctorius) Oil	X					up to 84%			JACT 4(5):171-97, 1985 confirmed 02/04 IJT 25(S2), 2006



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Salicylic Acid		X					safe when formulated to avoid irritation and to avoid increasing sun sensitivity, or when increased sun sensitivity would be expected, directions for use include the daily use of sun protection.		IJT 22(3):1-108
SD Alcohol 3-A	X					up to 5%			IJT 27 (S1):1-43, 2008
SD Alcohol 30	X					not in current use*			IJT 27 (S1):1-43, 2008
SD Alcohol 39				X					IJT 27 (S1):1-43, 2008
SD Alcohol 39-B	X					not reported*			IJT 27 (S1):1-43, 2008
SD Alcohol 39-C	X					up to 88%			IJT 27 (S1):1-43, 2008
SD Alcohol 40			X						IJT 27 (S1):1-43, 2008
SD Alcohol 40-B	X					up to 99%			IJT 27 (S1):1-43, 2008
SD Alcohol 40-C	X					not in current use*			IJT 27 (S1):1-43, 2008
									SLR available from CIR
Sesamum Indicum (Sesame) Seed Oil (amended)	X					up to 73%			Amended Final Report 06/09 Available from CIR JACT 12(3):261-77, 1993 (original report)
Sesamum Indicum (Sesame) Seed Oil Unsaponifiables (amended)	X					up to 0.03%			Amended Final Report 06/09 Available from CIR JACT 12(3):261-77, 1993 (original report)
Shellac		X					6%		JACT 5(5):309-327, 1986 confirmed 12/06
Silica (amorphous)	X					up to 44%			Final Report 09/09 available from CIR
Simmondsia Chinensis (Jojoba) Butter (amended)	X					up to 6%			Amended Final Report 09/08 - available from CIR
Simmondsia Chinensis (Jojoba) Seed Oil (amended)	X					up to 100%			Amended Final Report 09/08 - available from CIR JACT 11(1):57-74, 1992 (original report)
Simmondsia Chinensis (Jojoba) Wax (amended)	X					up to 2%			Amended Final Report 09/08 - available from CIR JACT 11(1):57-74, 1992 (original report)
Sodium Acrylates/Acrolein Copolymer		X					safe for use when formulated to avoid irritation		IJT 21(S3):1-50, 2002
Sodium Acrylates Copolymer		X					safe for use when formulated to avoid irritation		IJT 21(S3):1-50, 2002

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Sodium Alpha-Olefin Sulfonates		X					safe as used in rinse off products; safe up to 2% in leave ons; the gamma sultone impurities should not exceed 10 ppm for unsubstituted alkane sultones, 1 ppm for chlorosultones, and 0.1 ppm for unsaturated sultones		IJT 17(S5):39-66, 1998
Sodium Ascorbate	X					up to 0.3%			IJT 24(2):51-111, 2005
Sodium Ascorbyl Phosphate	X					up to 3%			IJT 24(2):51-111, 2005
Sodium Benzoate		X					safe for use in all cosmetic formulations up to 5%; insufficient data to support safety in products which are inhaled		IJT 20(S3):23-50, 2001 reopened 06/10
Sodium Bicarbonate	X					> 50%			JACT 6(1):121-138, 1987 confirmed 03/05 IJT 25(S2), 2006
Sodium Bisulfite	X					up to 0.7%			IJT 22(S2):63-88, 2003
Sodium Borate		X					5%; but not for use on infant or injured skin		JACT 2(7):87-125, 1983 confirmed 06/03 IJT 25(S2), 2006
Sodium Bromate		X					10.17%		JACT 13(5):400-14, 1994
Sodium Butyl Ester of PVM/MA Copolymer (amended)	X					not in current use1			Amended Final Report 06/09 Available from CIR JACT 12(3):243-56, 1993 (original report)
Sodium C12-14 Olefin Sulfonate, Sodium C14-16 Olefin Sulfonate, Sodium C14-18 Olefin Sulfonate, and Sodium C16-18 Olefin Sulfonate		X					safe as used in rinse off products; safe up to 2% in leave ons; the gamma sultone impurities should not exceed 10 ppm for unsubstituted alkane sultones, 1 ppm for chlorosultones, and 0.1 ppm for unsaturated sultones		IJT 17(S5):39-66, 1998
Sodium Carbonate	X					up to 25%			JACT 6(1):121-38, 1987 confirmed 03/05 IJT 25(S2), 2006
Sodium Cetearyl Sulfate	X					up to 10%			IJT 29(S2): 115-132, 2010 JACT 11(1):145-55, 1992 (original report)
Sodium Cetyl Sulfate	X					up to 2%			IJT 29(S2): 115-132, 2010
Sodium p-Chloro-m-Cresol (amended)		X					up to 0.5%		IJT 25(S1):29-127, 2006
Sodium Cocoamphoacetate	X					up to 6%			JACT 9(2):121-142, 1990 confirmed 04/06
Sodium Cocoamphopropionate	X					up to 10%			JACT 9(2):121-42, 1990 confirmed 04/06

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Sodium Coco/Hydrogenated Tallow Sulfate (amended)	X					not in current use1			Amended Final Report 09/08 Available from CIR
Sodium Cocomonoglyceride Sulfate (amended)	X					not in current use1			Amended Final Report 09/08 - available from CIR
Sodium Coco-Sulfate	X					up to 29%			IJT 29(S2): 115-132, 2010
Sodium Cocoyl Isethionate		X					50% rinse-off; 17% leave-on		JACT 12(5):459-79, 1993 reopened 03/09
Sodium Cocoate (amended)	X					up to 52%			Amended Final Report 09/08 - available from CIR
Sodium Cocoyl Sarcosinate		X					safe as used in rinse-off products; but 5% in leave-on products. Should not be used in products where N-nitroso compounds may be formed. Insufficient data to determine safety in products where these ingredients are likely to be inhaled.		IJT 20(S1):1-14, 2001
Sodium Cumenesulfonate	X					up to 3%			Final Report 09/09 available from CIR
Sodium Decylbenzenesulfonate (amended)		X					safe for use in cosmetics when formulated to be non-irritating		Amended safety assessment 03/09 - Available from CIR JACT 12(3):279-309, 1993 (original report)
Sodium Decyl Sulfate	X					not in current use1			IJT 29(S2): 115-132, 2010
Sodium Dehydroacetate	X					up to 0.6%			JACT 4(3):123-159, 1985 confirmed 11/03 IJT 25(S2), 2006
Sodium Dodecylbenzenesulfonate (amended)		X					safe for use in cosmetics when formulated to be non-irritating		Amended safety assessment 03/09 - Available from CIR JACT 12(3):279-309, 1993 (original report)
Sodium Erythorbate	X					up to 1%			IJT 18(S3):1-26, 1999
Sodium Ethyl Ester of PVM/MA Copolymer (amended)	X					not in current use1			Amended Final Report 06/09 Available from CIR JACT 12(3):243-56, 1993 (original report)
Sodium Ethylhexyl Sulfate	X					not in current use1			IJT 29(S2): 115-132, 2010
Sodium Glycolate and Sodium Lactate		X							IJT 17(S1):1-242, 1998
Sodium Hexametaphosphate		X					safe for use when formulated to avoid skin irritation		IJT 20(S3):75-89, 2001
Sodium Hyaluronate	X					up to 2%			IJT 28 (1): 5-67, 2009

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Sodium Hydrogenated Cocoate (amended)	X					not in current use1			Amended Final Report 09/08 - available from CIR
Sodium Iodate				X					JACT 14(3):231-39, 1995
Sodium Lauraminopropionate				X					IJT 16(S1):1-10,1997
Sodium Laureth Sulfate	X					up to 50%			JACT 2(5):1-34, 1983 confirmed 11/02 IJT 24(S1):85-89, 2005
Sodium Lauriminodipropionate			X						IJT 16(S1):1-10,1997
Sodium Lauroyl Sarcosinate		X					safe as used in rinse-off products; but 5% in leave-on products. Should not be used in products where N-nitroso compounds may be formed. Insufficient data to determine safety in products where these ingredients are likely to be inhaled.		IJT 20(S1):1-14, 2001
Sodium Lauryl Sulfate		X					safe for use in rinse-off products; but 1% for leave-on products		JACT 2(7):127-181, 1983 confirmed 06/02 IJT 24(S1):89-98, 2005
Sodium Lauryl Sulfoacetate	X					up to 21%			JACT 6(3):261-277, 1987 confirmed 12/04 IJT 25(S2), 2006
Sodium Magnesium Silicate	X					up to 5%			IJT 22(S1):37-102, 2003
Sodium Malate		X					safe for use as pH adjusters; insufficient data to support safety for other uses		IJT 20(S1):47-55, 2001
Sodium Metabisulfite	X					up to 14%			IJT 22(S2):63-88, 2003
Sodium Metaphosphate		X					safe for use when formulated to avoid skin irritation		IJT 20(S3):75-89, 2001
Sodium Metasilicate		X				up to 14%	safe for use when formulated to avoid skin irritation		IJT 24(S1):103-117, 2005
Sodium Myreth Sulfate	X					> 50%			JACT 11(1):157-63, 1992
Sodium Myristoyl Sarcosinate		X					safe as used in rinse-off products; but 5% in leave-on products. Should not be used in products where N-nitroso compounds may be formed. Insufficient data to determine safety in products where these ingredients are likely to be inhaled.		IJT 20(S1):1-14, 2001
Sodium Myristyl Sulfate	X					not reported2			IJT 29(S2): 115-132, 2010

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Sodium Naphthalenesulfonate (amended)		X				below 2%	safe as used in cosmetic formulations intended to be applied to skin; but insufficient data to support the safety in cosmetic products which may contact mucous membranes or be ingested.		IJT 22(S2):37-44, 2003
Sodium-m-Nitrobenzenesulfonate			X						JACT 15(4):337-47, 1996
Sodium Octoxynol-2 Ethane Sulfonate and Sodium Octoxynol-2 and -6 Sulfate		X				not in current use1	safe as used in rinse-off products; safe at 5% in leave-on products		IJT 23(S1):59-111, 2004
Sodium Octoxynol-9 Sulfate	X					not in current use1			IJT 23(S1):59-111, 2004
Sodium Oleyl Sulfate	X					not in current use1			IJT 29(S2): 115-132, 2010
Sodium PCA		X					should not be used in cosmetic products containing N-nitrosating agents		IJT 18(S2):25-34
Sodium Persulfate		X					safe as oxidizing agents in hair colorants and lighteners designed for brief, discontinuous use followed by thorough rinsing from hair and skin		IJT 20(S3):7-21, 2001
Sodium Picramate (amended)		X					not to exceed 0.1%		IJT 28(S3): 205-216, 2009 JACT 11(4):447-64, 1992 (original report)
Sodium Polyacrylate		X					safe for use when formulated to avoid irritation		IJT 21(S3):1-50, 2002
Sodium Polynaphthalenesulfonate (amended)		X				up to 0.3%	safe as used in cosmetic formulations intended to be applied to skin; but insufficient data to support the safety in cosmetic products which may contact mucous membranes or be ingested.		IJT 22(S2):37-44, 2003
Sodium Potassium Aluminum Silicate	X					up to 4%			Final Report 09/09 available from CIR
Sodium Ricinoleate	X								IJT 26(S3) 2007
Sodium Salicylate		X					safe when formulated to avoid irritation and to avoid increasing sun sensitivity, or when increased sun sensitivity would be expected, directions for use include the daily use of sun protection.		IJT 22(3):1-108
Sodium Sesameseedate (amended)	X					not in current use1			Amended Final Report 06/09 Available from CIR JACT 12(3):261-77, 1993 (original report)

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Sodium Sesquicarbonate	X					> 50%			JACT 6(1):121-38, 1987 confirmed 03/05 IJT 25(S2), 2006
Sodium Silicate		X				up to 35%	safe for use when formulated to avoid skin irritation		IJT 24(S1):103-117, 2005
Sodium Stearate	X					up to 25%			JACT 1(2):143-77, 1982 confirmed 11/01 IJT 22(S1):1-35, 2003
Sodium Stearyl Sulfate	X					not reported2			IJT 29(S2): 115-132, 2010
Sodium/Styrene/Acrylates Copolymer		X					safe for use when formulated to avoid irritation		IJT 21(S3):1-50, 2002
Sodium Sulfate		X					up to 1% in leave-on formulations		IJT 19(S1):77-87, 2000
Sodium Sulfite	X					up to 3%			IJT 22(S2):63-88, 2003
Sodium Tallate	X					not reported2			IJT 28(S3):252-258, 2009
Sodium Tallow Sulfate	X					not in current use1			IJT 29(S2): 115-132, 2010
Sodium Thioglycolate		X							IJT 28(S3):68-133, 2009
Sodium Toluenesulfonate	X					not in current use1			Final Report 09/09 available from CIR
Sodium Tridecyl Sulfate	X					not in current use1			IJT 29(S2): 115-132, 2010
Sodium Trimetaphosphate		X					safe for use when formulated to avoid skin irritation		IJT 20(S3):75-89, 2001
Sodium Xylenesulfonate	X					up to 15%			Final Report 09/09 available from CIR
Sorbeth-40 and -50 Hexaoleate	X					not reported2			IJT 19(S2):43-89, 2000
Sorbeth Tetraoleate Laurate	X					not reported2			IJT 19(S2):43-89, 2000
Sorbeth Tetrastearate	X					not reported2			IJT 19(S2):43-89, 2000
Sorbic Acid	X					up to 3%			JACT 7(6):837-80, 1988 confirmed 04/06
Sorbitan Caprylate and Sorbitan Sesquiisostearate	X					up to 5%			IJT 21(S1):93-112, 2002
Sorbitan Cocoate, Sorbitan Diisostearate, Sorbitan Dioleate, Sorbitan Distearate, Sorbitan Sesquisteate, and Sorbitan Trisostearate	X					not in current use1			IJT 21(S1):93-112, 2002
Sorbitan Isostearate	X					up to 4%			IJT 21(S1):93-112, 2002
Sorbitan Laurate, Sorbitan Sesquioleate, and Sorbitan Trioleate	X					up to 10%			JACT 4(3):65-121, 1985
Sorbitan Oleate	X					up to 25%			JACT 4(3):65-121, 1985
Sorbitan Oliviate	X					up to 7.5%			IJT 21(S1):93-112, 2002
Sorbitan Palmitate	X					up to 5%			JACT 4(3):65-121, 1985

Ingredient Name	Review Conclusion					Explanation	Concentration or other limitation on use for "SQ" conclusion	Safety concern for "U" conclusion	Journal Citation
	S	SQ	I	Z	U				
						Use concentration for "S" conclusion 6			
Sorbitan Stearate	X					up to 25%			JACT 4(3):65-121, 1985
Sorbitan Tristearate	X					up to 5%			JACT 4(3):65-121, 1985
Squalane	X					up to 31%			JACT 1(2):37-56, 1982 confirmed 09/01 IJT 22(S1):1-35, 2003
Squalene	X					up to 10%			JACT 1(2):37-56, 1982 confirmed 09/01 IJT 22(S1):1-35, 2003
Steapyrium Chloride	X					up to 5%			JACT 10(1):87-97, 1991
Stearalkonium Chloride	X					up to 7%			JACT 1(2):57-69, 1982 confirmed 11/01 IJT 22(S1):1-35, 2003
Stearalkonium Hectorite	X					up to 5%			IJT 19(S2):91-98, 2000
Stearamide DEA and Stearamide MEA		X					safe for use in rinse-off products; for leave-on use, OK at conc. that limit release of ethanolamines to 5%, but max. conc. of 40%; should not be used in products in which N-nitroso compounds may be formed		Final Report 8/95 available from CIR
Stearamide DIBA-Stearate			X						IJT 20(S3):91-97, 2001
Stearamidopropyl Dimethicone	X					not in current use1			IJT 22(S2):11-35, 2003
Stearamine			X						JACT 14(3):196-203, 1995
Stearamine Oxide		X					safe for use in rinse-off products; but 5% for leave-on products		JACT 13(5):231-45, 1994 confirmed 09/09
Stearth-1, -3, -5, -8, -9, -14, -15, -16, -21, -25, -27, -30, -40, -50, -100, -200 (Alkyl PEG Ethers report)									Tentative Amended Report 06/10 Available from CIR
Stearth-2 (Alkyl PEG Ethers report)	X					up to 4%			JACT 7(6):881-910, 1988 confirmed 04/06 Tentative Amended Report 06/10 Available from CIR
Stearth-4 (Alkyl PEG Ethers report)	X					up to 2%			JACT 7(6):881-910, 1988 confirmed 04/06 Tentative Amended Report 06/10 Available from CIR
Stearth-6, -15 (Alkyl PEG Ethers report)	X					not reported2			JACT 7(6):881-910, 1988 confirmed 04/06 Tentative Amended Report 06/10 Available from CIR

Ingredient Name	Review Conclusion					Explanation	Concentration or other limitation on use for "SQ" conclusion	Safety concern for "U" conclusion	Journal Citation
	S	SQ	I	Z	U				
						Use concentration for "S" conclusion 6			
Steareth-7 (Alkyl PEG Ethers report)	X					0.1%			JACT 7(6):881-910, 1988 confirmed 04/06 Tentative Amended Report 06/10 Available from CIR
Steareth-10 (Alkyl PEG Ethers report)	X					up to 3%			JACT 7(6):881-910, 1988 confirmed 04/06 Tentative Amended Report 06/10 Available from CIR
Steareth-11, -13 (Alkyl PEG Ethers report)	X					not in current use1			JACT 7(6):881-910, 1988 confirmed 04/06 Tentative Amended Report 06/10 Available from CIR
Steareth-20 (Alkyl PEG Ethers report)	X					up to 15%			JACT 7(6):881-910, 1988 confirmed 04/06 Tentative Amended Report 06/10 Available from CIR
Steareth-10 Allyl Ether/Acrylates Copolymer		X					safe for use when formulated to avoid irritation		IJT 21(S3):1-50, 2002
Steareth-60 Cetyl Ether (Alkyl PEG Ethers report)									Tentative Amended Report 06/10 Available from CIR
Stearic Acid	X					> 50%			JACT 6(3):321-401, 1987 confirmed 06/05 IJT 25(S2), 2006
Stearic Hydrazide				X					JACT 10(1):99-101, 1991
Stearoxy Dimethicone	X					up to 3%			IJT 22(S2):11-35, 2003
Stearyl Sarcosine		X					safe as used in rinse-off products; but 5% in leave-on products. Should not be used in products where N-nitroso compounds may be formed. Insufficient data to determine safety in products where these ingredients are likely to be inhaled.		IJT 20(S1):1-14, 2001
Steartrimonium Chloride (Trimoniums report)		X					up to 0.25% for leave-on products (no rinse-off uses reported)		IJT 16(S3):195-220, 1997 Tentative Amended Report 06/10
Stearyl Alcohol	X					up to 25%			JACT 4(5):1-29, 1985 confirmed 03/04 IJT 25(S2), 2006
Stearyl Dimethicone	X					up to 6%			IJT 22(S2):11-35, 2003
Stearyl Glycyrrhetinate	X					up to 1%			IJT 26(S2):79-112, 2007



Ingredient Name	Review Conclusion					Explanation	Concentration or other limitation on use for "SQ" conclusion	Safety concern for "U" conclusion	Journal Citation
	S	SQ	I	Z	U				
						Use concentration for "S" conclusion 6			
Stearyl Heptanoate, Stearyl Caprylate, Stearyl Palmitate, Stearyl Stearate, Stearyl Behenate, and Stearyl Oliviate	X					up to 12.5%			JACT 14(6):497-510, 1995 Tentative Amended Report 06/10 Available from CIR
Stearyl Methicone	X					up to 6%			IJT 22(S2):11-35, 2003
Styrene/Acrylates/Ammonium Methacrylate Copolymer		X					safe for use when formulated to avoid irritation		IJT 21(S3):1-50, 2002
Styrene/Acrylates Copolymer		X					safe for use when formulated to avoid irritation		IJT 21(S3):1-50, 2002
Sweet Almond (Prunus Amygdalus Dulcis) Oil	X					up to 76%			JACT 2(5):85-99, 1983 confirmed 11/02 IJT 24(S1):98-101, 2005
Synthetic Beeswax	X					up to 18%			JACT 3(3):43-99, 1984 confirmed 06/03 IJT 24(S1):67-74, 2005
Synthetic Jojoba Oil (amended)	X					up to 0.1%			Amended Final Report 09/08 - available from CIR
Synthetic Wax	X					up to 29%			JACT 3(3):43-99, 1984 confirmed 06/03 IJT 24(S1):67-74, 2005
<b>T</b>									
Tall Oil Acid (amended)	X					up to 8%			IJT 28(S3):252-258, 2009 JACT 8(4):769-776, 1989 (original report)
Tallow	X					> 50%			JACT 9(2):153-64, 1990 confirmed 06/06
Talloweth-4, -5, -6, -7, -18 (Alkyl PEG Ethers report)									Tentative Amended Report 06/10 Available from CIR
Tallow Glyceride and Tallow Glycerides	X					up to 25%			JACT 9(2):153-64, 1990 confirmed 06/06
TBHQ (Amended)		X					0.1%		JACT 10(1):1-7, 1991 JACT 5(5):329-51, 1986 (Original report)
TEA-Cocoyl-Hydrolyzed Collagen (formerly Triethanolamine-Coco-Hydrolyzed Animal Protein)	X					up to 50%			JACT 2(7):75-86, 1983 confirmed 11/02 IJT 24(S1):82-85, 2005
TEA-Dodecylbenzenesulfonate (amended)	X					up to 5%			Amended safety assessment 03/09 - Available from CIR JACT 12(3):279-309, 1993 (original report)
TEA-EDTA	X					not in current use1			IJT 21(S2):95-142, 2002
TEA-Lactate		X							IJT 17(S1):1-242, 1998

Ingredient Name	Review Conclusion					Explanation	Concentration or other limitation on use for "SQ" conclusion	Safety concern for "U" conclusion	Journal Citation
	S	SQ	I	Z	U				
						Use concentration for "S" conclusion 6			
TEA-Lauryl Sulfate		X					10.5%		JACT 1(4):143-67, 1982
TEA-Salicylate		X					safe when formulated to avoid irritation and to avoid increasing sun sensitivity, or when increased sun sensitivity would be expected, directions for use include the daily use of sun protection.		IJT 22(3):1-108
TEA Stearate		X					safe for use in rinse-off products; but 15% in leave-on products; and should not be used with N-nitrosating agents		JACT 14(3): 240-8, 1995
TEA-Tridecylbenzenesulfonate (amended)		X					safe for use in cosmetics when formulated to be non-irritating		Amended safety assessment 03/09 - Available from CIR
Tetrahydrofurfuryl Methacrylate		X					safe in nail enhancement products when skin contact is avoided; products should be accompanied with directions to avoid skin contact because of the sensitizing potential of methacrylates		IJT 24(S5):53-100, 2005
Tetrasodium EDTA	X					less than 1%			IJT 21(S2):95-142, 2002
Thiodipropionic Acid (amended)		X				up to 2%	safe for use in cosmetic formulations when formulated to be non-irritating		Amended Safety Assessment 03/09 - Available from CIR
Thioglycolic Acid (amended)		X							IJT 28(S3):68-133, 2009 JACT 10(1):135-92, 1991 (original report)
Thymol (amended)		X					up to 0.5%		IJT 25(S1):29-127, 2006
Tocopherol	X					5%			IJT 21(S3):51-116, 2002
Tocophersolan	X					0.2%			IJT 21(S3):51-116, 2002
Tocopheryl Acetate	X					36% (100% in Vitamin E oil)			IJT 21(S3):51-116, 2002
Tocopheryl Linoleate	X					2%			IJT 21(S3):51-116, 2002
Tocopheryl Linoleate/Oleate	X					not in current use1			IJT 21(S3):51-116, 2002
Tocopheryl Nicotinate	X					1%			IJT 21(S3):51-116, 2002
Tocopheryl Succinate	X					not reported2			IJT 21(S3):51-116, 2002
Toluene	X					up to 50% in nail care products			JACT 6(1):77-120, 1987 confirmed 03/05 IJT 25(S2), 2006

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	S	SQ	I	Z	U				
						Use concentration for "S" conclusion 6			
Toluene-2,5-Diamine (amended)	X					up to 1%			Final Amended Report 12/08 Available from CIR JACT 11(4):423-45, 1992 (original report)
Toluene-3,4-Diamine (amended)				X					Final Amended Report 12/08 Available from CIR JACT 11(4):423-45, 1992 (original report)
Toluene-2,5-Diamine Sulfate (amended)	X					up to 5%			Final Amended Report 12/08 Available from CIR JACT 11(4):423-45, 1992 (original report)
Toluenesulfonamide/Formaldehyde Resin (aka Tosylamide/Formaldehyde Resin)	X					up to 13%			JACT 5(5):471-490, 1986 confirmed 09/04 IJT 25(S2), 2006
Toluenesulfonamide/Formaldehyde Resin-80	X					not in current use1			JACT 5(5):471-490, 1986 confirmed 09/04 IJT 25(S2), 2006
Toluene Sulfonic Acid	X					not in current use1			Final Report 09/09 available from CIR
Tragacanth (Astragalus Gummifer) Gum	X					up to 3%			JACT 6(1):1-22, 1987 confirmed 09/04 IJT 25(S2), 2006
Triacetin	X					up to 4%			IJT 22(S2):1-10, 2003
Triarachidin, Tricaprin, Trierucin, Triheptanoin, Triheptylundecanoin, Triisopalmitin, Triolein, Tripalmitolein, Triolein, and Triundecanoin	X					not in current use1			IJT 20(S4):61-94, 2001
Tribehenin	X					up to 6%			IJT 20(S4):61-94, 2001
Tricaprylin, Triethylhexanoin (aka Trioctanoin) Triisononanoin, Trilinolein, Trimyristin, Tripalmitin, and Tristearin	X					not reported2			IJT 20(S4):61-94, 2001
Trichloroethane	X					not in current use8			IJT 27(S4): 107-138, 2008
Triclosan									SLR 04/10 Available from CIR
Trideceth-2, -3, -4, -5, -6, -7, -8, -9, -10, -11, -12, -15, -18, -20, -21, -50 (Alkyl PEG Ethers report)									Tentative Amended Report 06/10 Available from CIR
Tridecyl Cocoate (amended)	X					not in current use1			Amended Final Report 09/08 - available from CIR
Tridecyl Isononanoate	X					9%			Final Safety Assessment 06/10 Available from CIR

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	S	SQ	I	Z	U				
						Use concentration for "S" conclusion 6			
Tridecyl Salicylate		X					safe when formulated to avoid irritation and to avoid increasing sun sensitivity, or when increased sun sensitivity would be expected, directions for use include the daily use of sun protection.		IJT 22(3):1-108
Triethanolamine		X					safe for use in rinse-off products; but 5% in leave-on cosmetic products; and should not be used in products containing N-nitrosating agents		JACT 2(7):183-235, 1983
Triethanolamine Cocoyl Hydrolyzed Collagen (formerly Triethanolamine-Coco-Hydrolyzed Animal Protein)	X					up to 50%			JACT 2(7):75-86, 1983 confirmed 11/02 IJT 24(S1):82-85, 2005
Triethylene Glycol	X					up to 0.2%			Amended Final Report 06/10 - available from CIR
Triethylene Glycol Dimethacrylate		X					safe in nail enhancement products when skin contact is avoided; products containing this ingredient should be accompanied with directions to avoid skin contact because of the sensitizing potential of methacrylates		IJT 24(S5):53-100, 2005
Trihydroxystearin	X					up to 5%			IJT 19(S1):89-94, 2000
Triisopropanolamine		X					safe for use in cosmetic products; but should not be used in products containing N-nitrosating agents		JACT 6(1):53-76, 1987 confirmed 12/04 IJT 25(S2), 2006
Triisostearin	X					<40%			IJT 20(S4):61-94, 2001
Trilaurin	X					<50%			IJT 20(S4):61-94, 2001
Trimethylolpropane Trimethacrylate		X					safe in nail enhancement products when skin contact is avoided; products containing this ingredient should be accompanied with directions to avoid skin contact because of the sensitizing potential of methacrylates		IJT 24(S5):53-100, 2005
Tripotassium EDTA	X					not reported <sup>2</sup>			IJT 21(S2):95-142, 2002
Trisodium EDTA and Trisodium HEDTA	X					less than 1%			IJT 21(S2):95-142, 2002
Trisodium Glycyrrhizate	X					not in current use <sup>1</sup>			IJT 26(S2):79-112, 2007
Triticum Vulgare (Wheat) Germ Oil	X					up to 18%			JEPT 4(4):33-45, 1980 confirmed 06/01 IJT 22(S1):1-35, 2003
Triticum Vulgare (Wheat) Gluten	X					1%			JEPT 4(4):5-17, 1980 confirmed 06/01 IJT 22(S1):1-35, 2003

Ingredient Name	Review Conclusion					Explanation	Concentration or other limitation on use for "SQ" conclusion	Safety concern for "U" conclusion	Journal Citation
	S	SQ	I	Z	U				
						Use concentration for "S" conclusion 6			
Triticum Vulgare (Wheat) Kernel Flour	X					up to 1%			JEPT 4(4):19-32, 1980 confirmed 06/01 IJT 22(S1):1-35, 2003
Triticum Vulgare (Wheat) Starch	X					up to 25%			JEPT 4(4):19-32, 1980 confirmed 06/01 IJT 22(S1):1-35, 2003
<b>U</b>									
Umbilical Extract					X		if used, should not deliver any metabolic/endocrine activity, and they must be free of detectable pathogenic viruses or infectious agents		IJT 21(S1):81-91, 2002
Undeceth-3, -5, -7, -8, -9, -11, -40 (Alkyl PEG Ethers report)									Tentative Amended Report 06/10 Available from CIR
Undecyleneth-6 (Alkyl PEG Ethers report)									Tentative Amended Report 06/10 Available from CIR
Urea	X					up to 10%			IJT 24(S3):1-56, 2005
Urethane Methacrylate		X					safe in nail enhancement products when skin contact is avoided; products containing this ingredient should be accompanied with directions to avoid skin contact because of the sensitizing potential of methacrylates		IJT 24(S5):53-100, 2005
Urocanic Acid					x				JACT 14(5):386-423, 1995
<b>V</b>									
VA/Butyl Maleate/Isobornyl Acrylate Copolymer		X					safe for use when formulated to avoid irritation		IJT 21(S3):1-50, 2002
VA/Crotonates Copolymer (formerly Vinyl Acetate/Crotonic Acid Copolymer)	X					up to 11%			JACT 2(5):125-140, 1983 confirmed 06/03 IJT 24(S1):101-102, 2005

Ingredient Name	Review Conclusion					Explanation	Concentration or other limitation on use for "SQ" conclusion	Safety concern for "U" conclusion	Journal Citation
	S	SQ	I	Z	U				
Vegetable (Olus) Oil, Hydrogeanted Vegetable Oil, Brassica Campestris (Rapeseed) Seed Oil, Brassica Campestris (Rapeseed) Oil Unsaponifiables, Hydrogenated Rapeseed Oil, Potassium Rapeseedate, Rapeseed Acid, Sodium Rapeseedate, Canola Oil, Canola Oil Unsaponifiables, Hydrogenated Canola Oil, Carthamus Tinctorius (Safflower) Seed Oil, Hydrogenated Safflower Seed Oil, Potassium Safflowerate, Safflower Acid, Sodium Safflowerate, Elaeis Guineensis (Palm) Oil, Elaeis Guineensis (Palm) Kernel Oil, Hydrogenated Palm Oil, Hydrogenated Palm Kernel Oil, Palm Kernel Acid, Elaeis Guineensis (Palm) Butter, Elaeis Oleifera Kernel Oil, Elaeis (Palm) Oil, Palm Acid, Hydrogenated Palm Acid, Potassium Palmate, Potassium Hydrogenated Palmate, Potassium Palm Kernelate, Sodium Hydrogenated Palmate, Sodium Palmate, Sodium Palm Kernelate, Glycine Soja (Soybean) Oil, Glycine Soja (Soybean) Oil Unsaponifiables, Hydrogenated Soybean Oil, Soy Acid, Potassium Soyate, Sodium Soyate, Gossypium Herbaceum (Cotton) Seed Oil, Cottonseed Acid, Hydrogenated Cottonseed Oil, Helianthus Annuus (Sunflower) Seed Oil, Helianthus Annuus (Sunflower) Seed Oil Unsaponifiables, Hydrogenated Sunflower Seed Oil, Sunflower Seed Acid, Citrullus Lanatus (Watermelon) Seed Oil, Citrus Aurantifolia (Lime) Seed Oil, Citrus Aurantifolia (Lime) Seed Oil Unsaponifiables, Hydrogenated Lime Seed Oil, Hydrogenated Lime Seed Oil Unsaponifiables, Citrus Aurantium Dulcis (Orange) Seed Oil, Citrus Aurantium Dulcis (Orange) Seed Oil Unsaponifiables, Hydrogenated Orange Seed Oil, Hydrogenated Orange Seed Oil Unsaponifiables, Citrus Grandis (Grapefruit) Seed Oil, Citrus Grandis (Grapefruit) Seed Oil Unsaponifiables, Citrus Paradisi (Grapefruit) Seed Oil, Hydrogenated Grapefruit Seed Oil, Hydrogenated Grapefruit Seed Oil Unsaponifiables, Citrus Limon (Lemon) Seed Oil, Coix Lacryma-Jobi (Job's Tears) Seed Oil, Cucumis Sativus (Cucumber)						Use concentration for "S" conclusion 6			SLR 04/10 Available from CIR
Vinyl Caprolactam/PVP/ Dimethylaminoethyl Methacrylate Copolymer		X					safe for use when formulated to avoid irritation		IJT 21(S3):1-50, 2002
Vinyl Dimethicone	X					not in current use1			IJT 22(S2):11-35, 2003
VP/VA Copolymer	X					> 50%			JACT 2(5):141-59, 1983 confirmed 09/03
<b>W</b>									
Wheat (Triticum Vulgare) Flour (aka Triticum Vulgare (Wheat) Kernel Flour)	X					up to 1%			JEPT 4(4):19-32, 1980 confirmed 06/01 IJT 22(S1):1-35, 2003

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	S	SQ	I	Z	U				
						Use concentration for "S" conclusion 6			
Wheat Germ Glycerides	X					up to 25%			JEPT 4(4):5-17, 1980 confirmed 06/01 IJT 22(S1):1-35, 2003
Wheat Germ Oil	X					up to 18%			JEPT 4(4):33-45, 1980 confirmed 06/01 IJT 22(S1):1-35, 2003
Wheat Gluten	X					1%			JEPT 4(4):5-17, 1980 confirmed 06/01 IJT 22(S1):1-35, 2003
Wheat Starch	X					up to 25%			JEPT 4(4):19-32, 1980 confirmed 06/01 IJT 22(S1):1-35, 2003
Wild Yam (Dioscorea Villosa) Extract	X					up to 15% of max 2% plant solids			IJT 23(S2):49-54, 2004
<b>X</b>									
Xylene Sulfonic Acid	X					not in current use1			Final Report 09/09 available from CIR
Yarrow (Achillea Millefolium) Extract			X						IJT 20(S2):79-84, 2001
<b>Z</b>									
Zea Mays (Corn) Cob Meal	X					up to 3%			Final Report 09/08 available from CIR
Zea Mays (Corn) Cob Powder	X					up to 10%			Final Report 09/08 available from CIR
Zea Mays (Corn) Fruit	X					not in current use1			Final Report 09/08 available from CIR
Zea Mays (Corn) Germ Extract	X					not reported2			Final Report 09/08 available from CIR
Zea Mays (Corn) Germ Oil	X					up to 25%			Final Report 09/08 available from CIR
Zea Mays (Corn) Gluten Protein	X					up to 0.1%			Final Report 09/08 available from CIR
Zea Mays (Corn) Kernel Extract	X					up to 0.5%			Final Report 09/08 available from CIR
Zea Mays (Corn) Kernel Meal	X					up to 3%			Final Report 09/08 available from CIR
Zea Mays (Corn) Oil	X					up to 14%			Final Report 09/08 available from CIR
Zea Mays (Corn) Oil Unsaponifiables	X					not reported2			Final Report 09/08 available from CIR
Zea Mays (Corn) Seed Flour	X					not reported2			Final Report 09/08 available from CIR
Zea Mays (Corn) Silk Extract	X					up to 0.1%			Final Report 09/08 available from CIR
Zea Mays (Corn) Starch	X					up to 99%			Final Report 09/08 available from CIR

