

Appendix A. Color Additives Permitted for Use in Cosmetics

For additional and the most up-to-date information on the permitted use, specifications and restrictions that apply to each color additive, refer to FDA's regulations on the use of color additives in cosmetics (21 CFR Part 73 Subpart C – Cosmetics, Part 74 Subpart C – Cosmetics, and Part 82 Subparts B, C, D), and FDA's Fact Sheet on Color Additives and Cosmetics.

Table 1. Color Additives that are Exempt from Certification and for Use in Cosmetics

Color Additive	Eye Area	Generally (Includes Lipsticks)	External Use	Specific Limitations and Comments
Aluminum powder	Yes	No	Yes	
Annatto	Yes	Yes	Yes	
Bismuth citrate	No	No	Subject to limitations	Hair on the scalp
Bismuth oxychloride	Yes	Yes	Yes	
Bronze powder	Yes	Yes	Yes	
Caramel	Yes	Yes	Yes	
Carmine	Yes	Yes	Yes	
β-Carotene	Yes	Yes	Yes	
Chromium hydroxide green	Yes	No	Yes	
Chromium oxide greens	Yes	No	Yes	
Copper powder	Yes	Yes	Yes	
Dihydroxyacetone	No	No	Subject to limitations	For use in tanning preparations
Disodium EDTA-copper	No	No	Subject to limitations	Shampoos

Ferric ammonium ferrocyanide	Yes	No	Yes	
Ferric ferrocyanide	Yes	No	Yes	
Guaiazulene	No	No	Yes	
Guanine	Yes	Yes	Yes	
Henna	No	No	Subject to limitations	Hair on the scalp
Iron oxides	Yes	Yes	Yes	
Luminescent zinc sulfide	No	No	Subject to limitations	Externally applied facial makeup and nail polish; <10%; for infrequent use (e.g.,
Manganese violet	Yes	Yes	Yes	
Mica	Yes	Yes	Yes	
Potassium sodium copper chlorophyllin (chlorophyllin-copper complex)	No	No	Subject to limitations	Dentifrices; ≤0.1%
Pyrophyllite	No	No	Yes	
Silver	No	No	Subject to limitations	Fingernail polish; ≤1%
Silver nitrate	Yes	No	Yes	Externally applied professional-use only cosmetics intended to impart color to the eyebrows and eyelashes, NTE 4% by weight, additional restrictions
Titanium dioxide	Yes	Yes	Yes	
Ultramarines	Yes	No	Yes	
Zinc oxide	Yes	Yes	Yes	

Table 2. Color Additives that are Subject to Certification and Permitted for Use in Cosmetics*

Color Additive	Eye Area	Generally (Includes Lipsticks)	External Use	Specific Limitations and Comments
D&C Black No. 2	Subject to Limitations	Subject to Limitations	Subject to Limitations	Eyeliner, brush-on-brow, eye shadow, mascara, lipstick, blushers & rouge, makeup & foundation, nail enamel
D&C Black No. 3	Subject to Limitations	No	Subject to Limitations	Eyeliner, eye shadow, mascara, face powder
FD&C Blue No. 1	Yes, also Al lake	Yes	Yes	
D&C Blue No. 4	No	No	Yes	
D&C Brown No. 1	No	No	Yes	
FD&C Green No. 3	No	Yes	Yes	
D&C Green No. 5	Yes	Yes	Yes	
D&C Green No. 6	No	No	Yes	
D&C Green No. 8	No	No	Subject to Limitations	≤0.01%
D&C Orange No. 4	No	No	Yes	
D&C Orange No. 5	No	Subject to Limitations	Yes	Mouthwashes, dentifrices; ≤5% for lipsticks
D&C Orange No. 10	No	No	Yes	
D&C Orange No. 11	No	No	Yes	
FD&C Red No. 4	No	No	Yes	
D&C Red No. 6	No	Yes	Yes	

D&C Red No. 7	No	Yes	Yes	
D&C Red No. 17	No	No	Yes	
D&C Red No. 21	No	Yes	Yes	
D&C Red No. 22	No	Yes	Yes	
D&C Red No. 27	No	Yes	Yes	
D&C Red No. 28	No	Yes	Yes	
D&C Red No. 30	No	Yes	Yes	
D&C Red No. 31	No	No	Yes	
D&C Red No. 33	No	Subject to Limitations	Yes	Lipstick products ≤3%; mouthwash, dentifrices
D&C Red No. 34	No	No	Yes	
D&C Red No. 36	No	Subject to Limitations	Yes	Lipstick products ≤3%
FD&C Red No. 40	Yes, also Al lake	Yes	Yes	
D&C Violet No. 2	No	No	Yes	
Ext. D&C Violet No. 2	No	No	Yes	
FD&C Yellow No. 5	Yes, also Al lake	Yes	Yes	
FD&C Yellow No. 6	No	Yes	Yes	
D&C Yellow No. 7	No	No	Yes	
Ext. D&C Yellow No. 7	No	No	Yes	
D&C Yellow No. 8	No	No	Yes	
D&C Yellow No. 10	No	Yes	Yes	
D&C Yellow No. 11	No	No	Yes	

*Includes straight colors and lakes.

**Excludes lakes except where noted. Only aluminum lakes on alumina are permitted for designated lakes.