

Quick Reference Table

Ingredient Name	Finding†	Detail	Citation‡
4-Methoxy- <i>m</i> -Phenylenediamine	U	carcinogenicity	JACT 11(4):381-422, 1992
4-Methoxy- <i>m</i> -Phenylenediamine HCl	U	carcinogenicity	JACT 11(4):381-422, 1992
4-Methoxy- <i>m</i> -Phenylenediamine Sulfate	U	carcinogenicity	JACT 11(4):381-422, 1992
Chloroacetamide	U	sensitization	JACT 10(1):21- 32, 1991
Ethoxyethanol	U	reproductive & developmental toxicity	IJT 21(S1):9-62, 2002
Ethoxyethanol Acetate	U	reproductive & developmental toxicity	IJT 21(S1):9-62, 2002
Formaldehyde	S;SQ;U	safe in the present practices of use and concentration in nail-hardening products; safe for use in cosmetics when formulated to ensure use at the minimal effective concentration, but in no case should the formalin concentration exceed 0.2% (w/w), which would be 0.074% (w/w) calculated as formaldehyde or 0.118% (w/w) calculated as methylene glycol. However, formaldehyde and methylene glycol are unsafe in the present practices of use and concentration in hair-smoothing products (also known as hair-straightening products).	IJT 32(Suppl. 4):5-32, 2013; JACT 3(3):157-84, 1984 confirmed 09/03 IJT 25(S2): 1-89, 2006
HC Blue No. 1	U	carcinogenicity	JACT 13(5):344-60, 1994
Hydroquinone	SQ;U	safe at concentrations of less than or equal to 1% for cosmetic formulations designed for discontinuous, brief use followed by rinsing from the skin and hair. Hydroquinone is safe for use in nail adhesives and in artificial nail coatings, as a polymerization inhibitor, that are cured by LED light. Hydroquinone is unsafe for use in other leave-on cosmetic products.	JACT 5(3):123-65, 1986; JACT 13(3):167-230, 1994; IJT 29 (S4): 274-287, 2010; Final report 12/2014 available from CIR
<i>p</i> -Hydroxyanisole	SQ;U	safe for use in nail adhesives and in artificial nail coatings, as a polymerization inhibitor, that are cured by LED light; and unsafe for use in all other cosmetics due to dermal depigmentation potential	JACT 4 (5):31-63, 1985 confirmed 09/03 IJT 25(S2), 2006; Final report 12/2014 available from CIR
Pyrocatechol	U;UNS	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)

†S - safe in the present practices of use and concentration SQ - safe for use in cosmetics, with qualifications I - the available data are insufficient to support safety Z - the available data are insufficient to support safety, but the ingredient is not used U - the ingredient is unsafe for use in cosmetics UNS - ingredients for which the data are insufficient and their use in cosmetics is not supported

‡ Please consider the most recent findings only. Previous citations are only offered for reference purposes.