Hair dyes in general may cause skin sensitisation and other adverse health effects. For cosmetics, animal testing has been banned in the European Union since 2013.

Pigment Red 57 is used as a semi-permanent hair dye at a maximum concentration of 0.4% in finished cosmetic formulations.

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DOSE-RESPONSE ASSESSMENT

The dose-response assessment describes the relationship between the extent of an adverse effect in an organism and the different concentrations or doses of a chemical. If there is a threshold amount below which a substance is safe and above which it is not, then the threshold amount is taken as the highest dose that can be taken without any observable adverse effects.
The legislative proposals are discussed and adopted by the EU legislators: the European Parliament and the Council of the EU. For tertiary legislation, adoption follows Comitology and scrutiny procedures.