

- **SCIENTIFIC COMMITTEE ON CONSUMER PRODUCT (SCCP)**

Request for a scientific opinion: Hair dye 2,4-Diaminophenoxyethanol dihydrochloride (CAS 66422-95-5) and 2,4-Diaminophenoxyethanol sulphate (CAS 70643-20-8) submission II (A042).

1. Background

Submission I for 2,4-Diaminophenoxyethanol has been submitted in January 1988 by COLIPA¹ according to COLIPA.

The Scientific Committee on Cosmetology adopted at its 54th plenary meeting the 10 of December 1993 the opinion on 2,4-Diaminophenoxyethanol dihydrochloride (CAS 66422-95-5) with the conclusion:

“The SCC does not consider the use of 2,4-diaminophenoxyethanol I hair dyes to be linked to any particular toxic risk for consumers.”

The substance is currently regulated in Annex III, part 2 under entry 36 on the list of substances provisionally allowed, which cosmetic products must not contain except subject to restrictions and conditions laid down.

Submission II for 2,4-Diaminophenoxyethanol was submitted by COLIPA in July 2005. According to this submission 2,4-Diaminophenoxyethanol is an ingredient of oxidative hair colouring products. It is used at a maximum final (on-head) concentration of 2.0%, after mixing the hair dye formulation with a hydrogen peroxide preparation typically in 1:1 proportions.

The SCCP adopted during the 7th plenary meeting of 18 March 2006 the opinion (SCCP/0979/05) on 2,4-Diaminophenoxyethanol and its salts with the conclusion that, *“the use of 2,4-diaminophenoxyethanol HCL itself as an oxidative hair dye at a maximum concentration of 2.0 % in the finished cosmetic product (after mixing with hydrogen peroxide) does not pose a risk to the health of the consumer, apart from its sensitising potential. No data were submitted on 2,4-diaminophenoxyethanol sulphate. Studies on genotoxicity/mutagenicity in finished hair dye formulations should be undertaken following the relevant SCCNFP opinions and in accordance with its Notes of Guidance”*.

The current submission III provides the physico-chemical data for the sulphate salts

2. Terms of reference

For completeness an update of opinion SCCP/0979/05 might be considered.

¹ COLIPA - European Cosmetics Toiletry and Perfumery Association