



French Agency for Environmental
and Occupational Health Safety

Methodology of the Afsset Scientific Committee on Occupational Exposure Limits to attribute “skin notation

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Objective

- Taking into account of the dermal absorption compared to inhalation at an exposure level equal to the exposure limit.
- Skin notation assigned if dermal absorption is expected to potentially cause a significantly increased total systemic exposure when pulmonary exposure equals the current exposure level.

« Skin notation » Step by Step

- **1-Quantitative Data**
 - determinants of extent of dermal absorption
- **2- Qualitative Data**
 - *Calculation Dermal absorption rate (flux)*
 - *Expressing the systemic Exposure*
 - *Applying ECETOC Criterium*
- **3- Preferred Data**
 - *Human skin*
 - *In vivo studies, etc*
 - *If not, Physicochemical data /QSAR*

Examples

- **Dichloromethane**
 - *Skin notation : Yes*
- **Toluene**
 - *Skin Notation: Yes*
- **Formaldehyde**
 - *Skin notation : No*

Discussion/Conclusions

All the issues have not yet been resolved: enhancers, carcinogenic, multiple exposure, etc;

Expert Judgment is still required especially for some chemical with sensitizer Properties

Urgent need for more valid data on dermal penetration