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WORKPLACE EXPOSURE - STRATEGY FOR THE EVALUATION OF DERMAL EXPOSURE

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English Version

**Workplace exposure - Strategy for the evaluation of dermal
exposure**

Exposition sur les lieux de travail - Stratégie pour
l'évaluation de l'exposition dermique

Exposition am Arbeitsplatz - Strategie zur Beurteilung der
Hautbelastung

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Contents	Page
Foreword.....	3
Introduction	4
1 Scope	5
2 Terms and definitions	5
3 Assessment of dermal exposure	7
4 Control	11
Annex A (informative) The conceptual model	12
Annex B (informative) Estimation and Assessment of Substance Exposure (EASE).....	14
Annex C (informative) DeRmal Exposure Assessment Method (DREAM).....	16
Annex D (informative) Determinants of dermal exposure	18
Bibliography	20

Foreword

This Technical Report (CEN/TR 15278:2006) has been prepared by Technical Committee CEN/TC 137 "Assessment of workplace exposure to chemical and biological agents", the secretariat of which is held by DIN.

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Introduction

Dermal exposure assessment explores the dynamic interaction between environmental contaminants and the skin. In contrast to inhalation exposure assessment, the assessment of dermal exposure remained a nascent field of scientific research and applied occupational hygiene for most of the twentieth century, although multiple fatalities and occupational skin diseases due to dermal exposure have been described in literature.

During the last decade, dermal exposure has received more attention, and one of the important results was the development of a conceptual model for dermal exposure (see [1]). The model systematically describes the transport of contaminant mass from exposure sources to the surface of the skin. The model provides a structure for evaluating dermal exposure both qualitatively and quantitatively.

The purpose of evaluating dermal exposure can differ substantially, as exposure analysis (to give guidance to control), risk assessment, and evaluation of exposure control can all be objectives to undertake assessments. In order to give guidance and to harmonise basic concepts and actions a strategy for evaluation of dermal exposure is proposed.

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