

Evaluation of emissions from building products according to the AFSSET protocol and recent developments in France

François MAUPETIT and Corinne MANDIN

2004-2008: The first French NEHAP

- **45 actions, including 12 high priority actions**
- **Action #15 (high priority): Improving IAQ**
 - Need for a procedure for the evaluation of VOC and formaldehyde emissions from building products (AFSSET)
 - Emissions from building products should be evaluated on a voluntary basis:
 - 50% of the products evaluated in 2010 !
 - Use of evaluated products in public buildings

→ <http://www.afsset.fr/>

Risques sanitaires liés aux composés organiques volatils dans l'air intérieur

Risques sanitaires liés aux émissions de composés organiques volatils par les produits de construction et d'aménagement intérieur

Procédure de qualification des produits de construction sur la base de leurs émissions de composés organiques volatils et de formaldéhyde et de critères sanitaires

Contribution à l'action 15 du Plan national santé environnement

- Avis de l'Afsset
- Rapport du groupe d'experts

En partenariat avec le Centre scientifique et technique du bâtiment

CSTB
le futur en construction

))) afsset .)))

agence française de sécurité sanitaire de l'environnement et du travail

Octobre 2006

- **2006 AFSSET protocol:**
 - Concerning solid building products
 - Based on existing standards: ISO 16000 series
 - Based on existing evaluation procedures: ECA report 18, AgBB
 - 207 LCI established

Limit values ($\mu\text{g}\cdot\text{m}^{-3}$)	day 3	day 28
TVOC	10000	1000
sum (C1, C2)	10	1
R = sum (Ci / LCI)		1
sum Cni		100

- A protocol is available...
- ... but it has not been used so far!
- Voluntary initiatives (e.g.: EPD) failed for providing information on emissions from building products
- The *Grenelle de l'environnement* has been initiated in 2007 in France
- Update of the AFSSET protocol (October 2009)

- Important action decided in 2007 by new French Government
- All parties represented for a consensus on major points regarding environment and environmental health
- June 2009: "*Grenelle 1*" Law adopted by Parliament and Senate

- **Concerning product's emissions and IAQ:**
 - Emissions of building and finishing products will be labelled on a mandatory basis
 - CMR compounds category 1 and 2 will be banned in construction products
 - Publication of a study on the opportunity to extend mandatory labelling of emissions to other indoor sources:
 - Cleaning products
 - Air fresheners
 - Furniture

- **Implementation of Grenelle 1 Law is under progress:**
 - Mandatory labelling of emissions from building and finishing products
 - Decree and Arrêté have been prepared and will soon be notified to EC Member States
 - Ban of CMR compounds category 1 and 2
 - Arrêté April 30, 2009: trichlorethylene
 - Arrêté May 28, 2009: benzene, dibutyl phtalate, 2-ethylhexyl phtalate