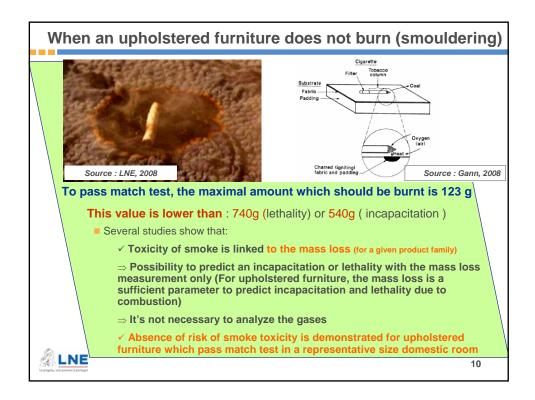
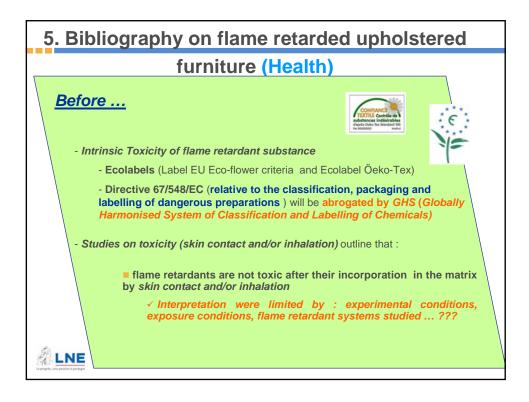
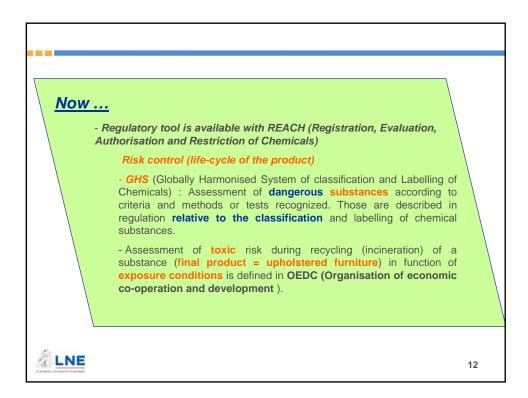
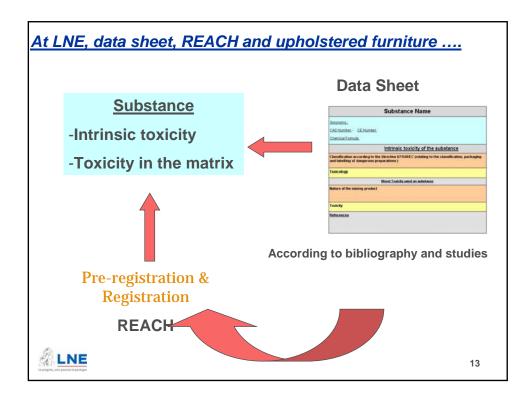


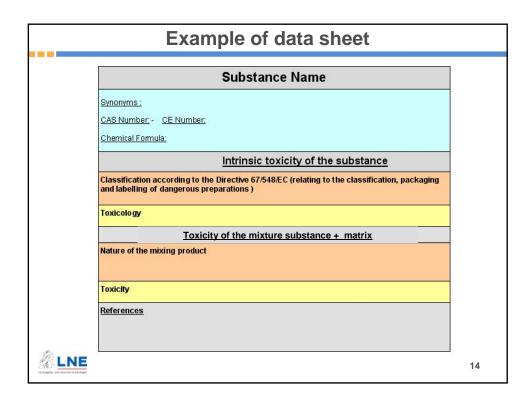
Toxicity and Mass loss		
	-	
References:	Effect on rats for smoke combustion exposure	Mass loss (g/m ³) or lethal concentration (g/m ³
LNE's Study for French Ministry (DGCCRF)	Incapacitation	17 - 27
 Relation between mass loss and toxic effect during combustion of furniture in a closed room » (1996) 	lethality	21 - 37
Study of Gann et al. « Evaluation of toxic potency values for smoke from products and materials » (2004)	lethality	12 - 40
✓ Flame retardants do not affect to	oxicity	
Example :		
In a room of 20 m ³ , an upholstered furnitudensity of 35 kg/m ³ , burns (representative		
To reach lethality or incapacitation, the required maximal amount of burnt product is:		
• for lethality : 740g		
 for incapacitation : 540g 		

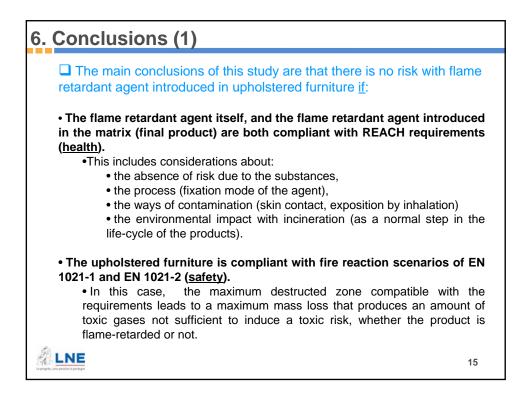


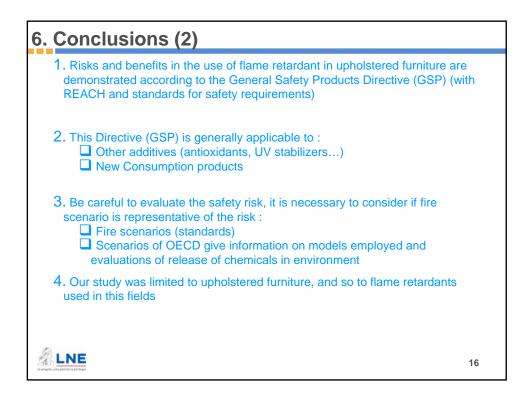












Laboratoire National de Métrologie et d'Essais – LNE Centre Énergie, Matériaux et Emballages (CEMATE) Fire Division



Thank you for your attention !