Sørli et al.:

Prediction of Acute Inhalation Toxicity Using *In Vitro* Lung Surfactant Inhibition

Supplementary Data

Tab. S1: Experiments done and number of mice used to determine toxicity of IPs

Product	No. of mice and type of in vivo tests	Total no. of mice
"Wood impregnation"	Screening test with 4 mice	26 ^A
	3 concentrations with 6, 8 and 8 mice per group	
"Stain repellent super"	5 concentrations with 10 mice per group	50 ^B
"Liquid stain protection"	24 mice exposed to different concentrations or in range-finding experiments, 4 mice exposed to maximum tolerated concentration	28
"Faceal oleo MG"	11 mice in range-finding experiments, 7 exposed to maximum tolerated concentration	18
"HG textile"	14 mice in range-finding experiments, 6 exposed to maximum tolerated concentration	20
"HG leather"	8 mice in range-finding experiments, 6 exposed to maximum tolerated concentration	14
"Antismuds"	3 concentrations with 8, 7 and 8 mice per group	23
"Footwear protector"	Screening test with 4 mice 2 concentrations with 8 mice per group	20 ^A
"Nakano Impregnation"	10 mice in range-finding experiments, 6 exposed to maximum tolerated concentration	16
"Non-absorbing floor materials"	5 concentrations with 7, 9, 9, 10 and 10 mice per group	45 ^c
"Rim sealer"	3 concentrations with 6 mice per group	18 ^A
"Stain repellent nano"	3 concentrations with 10 mice per group	30
"Stain repellent"	3 concentrations with 10 mice per group	30
"Bath and tiles"	2 concentrations with 10 and 20 mice per group	30°
"Faceal oleo HD"	8 mice in range-finding experiments, 6 mice exposed to the maximal concentration possible to generate	14
"Special textile coating"	5 mice exposed to maximal concentration that could be generated 6 mice exposed to maximal concentration that could be generated (repetition)	11 ^D
"Textiles and leather concentrate"	5 mice exposed to maximal concentration that could be generated	5 ^D
"Textiles and leather"	Screening test with 4 mice 5 mice exposed to maximal concentration that could be generated	9 ^A
"Car glass"	Screening test with 4 mice 8 mice exposed to maximal concentration that could be generated	12 ^A
"Footwear repel"	4 mice in range-finding experiments, 5 mice exposed to the maximal concentration that could be generated	9
"Performance repel"	4 mice in range-finding experiments, 6 mice exposed to the maximal concentration that could be generated	10

^A Data from Sørli et al. (2015b); ^B Data from Duch et al. (2014); ^C Data from Nørgaard et al. (2010); ^D Data from Nørgaard et al. (2014)



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Tab. S2: Chemical composition of IPs

Product	Chemical composition	Aerosol data
"Wood impregnation"	Perfluoracrylate, water, glycolethers	ELPI ^A
"Stain repellent super"	Isooctyl trimethyl silane, alkyl silane, C9-C13 hydrocarbons	CPC ^B
"Liquid stain protection"	Fluorinated carboxylic acid resin, isoparaffinic hydrocarbon mixture	
"Faceal oleo MG"	Silane, fluorinated polymer, triethoxyisobutylsilane, petroleum	
"HG textile"	Naphta, n-butyl acetate, 2-methoxy-1-methylethyl acetate, 2-propanol	
"HG leather"	Naphta, n-butyl acetate	
"Antismuds"	Naphta, C9-C12 iso alkanes	
"Foorwear protector"	Perfluoro acrylate, water, glycolethers	ELPI ^A
"Nakano impregnation"	Petroleum, isobutane, propane, butane, naphta	
"Non-absorbing floor materials"	Perfluorosilane/siloxane, 2-propanol	ELPI ^A
"Rim sealer"	Perfluorosilane/siloxane, 2-propanol, 1-methoxy-2- propanol, ethylacetate	ELPI ^A
"Stain repellent nano"	Isoalkane, cycloalkane, n-butyl acetate, naphta	
"Stain Repellent"	Naptha, C9-C12 iso-alkane	
"Bath and tiles"	Alkylsilane/siloxane, ethanol	ELPI ^A
"Faceal oleo HD"	Aqueous polymer suspension	
"Special textile coating"	Perfluorosilane/siloxane, water	ELPI ^A
"Textiles and leather concentrate"	Perfluorosilane/siloxane, water	ELPI ^A
"Textiles and leather"	Perfluorosilane/siloxane, water	ELPI ^A
"Car glass"	Alkylsilane/siloxane, ethanol	ELPI ^A
"Footwear repel"	Poly[3-((2- aminoethyl)amino)propyl]methyl(dimethyl)siloxane, hydroxy-terminated	
"Performance repel"	Poly[3-((2- aminoethyl)amino)propyl]methyl(dimethyl)siloxane, hydroxy-terminated	

Grey: from MSDS

ELPI: electrical low-pressure impactor; CPC: condensation particle counter

^A Data from Sørli et al. (2015b); ^B Data from Duch et al. (2014)

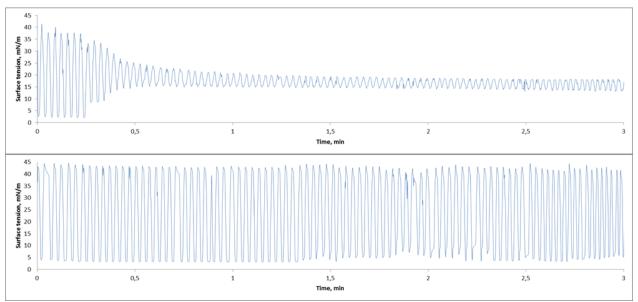


Fig. S1: Surface tension profile of the minimum surface tension plotted against time for a drop of LS exposed to an IP inhibiting function (top panel) or a non-inhibitory IP (bottom panel)

The inhibitory IP causes the minimum surface tension to increase to values above 10 mN/m.