

APPENDIX B: SAR TISSUE SPECIFICATIONS

Measurement Procedure for Tissue verification:

- 1) The network analyzer and probe system was configured and calibrated.
- 2) The probe was immersed in the tissue. The tissue was placed in a nonmetallic container. Trapped air bubbles beneath the flange were minimized by placing the probe at a slight angle.
- 3) The complex admittance with respect to the probe aperture was measured
- 4) The complex relative permittivity ε can be calculated from the below equation (Pournaropoulos and Misra):

$$Y = \frac{j2\omega\varepsilon_r\varepsilon_0}{\left[\ln(b/a)\right]^2} \int_a^b \int_0^a \int_0^\pi \cos\phi' \frac{\exp\left[-j\omega r(\mu_0\varepsilon_r\varepsilon_0)^{1/2}\right]}{r} d\phi' d\rho' d\rho$$

where Y is the admittance of the probe in contact with the sample, the primed and unprimed coordinates refer to source and observation points, respectively, $r^2 = \rho^2 + {\rho'}^2 - 2\rho\rho' \cos\phi'$, ω is the angular frequency, and $j = \sqrt{-1}$.

3 Composition / Information on ingredients

3.2 Mixtures Description: Aqueous solution with surfactants and inhibitors Declarable, or hazardous components:					
Ethanediol	>1.0-4.9%				
STOT RE 2, H373;					
Acute Tox. 4, H302					
Sodium petroleum sulfonate	< 2.9%				
Eye Irrit. 2, H319					
Hexylene Glycol / 2-Methyl-pentane-2,4-diol	< 2.9%				
Skin Irrit. 2, H315; Eye Irrit. 2, H319					
Alkoxylated alcohol, > C ₁₆	< 2.0%				
Aquatic Chronic 2, H411;					
Skin Irrit. 2, H315; Eye Irrit. 2, H319					
	ents: Ethanediol STOT RE 2, H373; Acute Tox. 4, H302 Sodium petroleum sulfonate Eye Irrit. 2, H319 Hexylene Glycol / 2-Methyl-pentane-2,4-diol Skin Irrit. 2, H315; Eye Irrit. 2, H319 Alkoxylated alcohol, > C ₁₆ Aquatic Chronic 2, H411;				

Additional information:

For the wording of the listed risk phrases refer to section 16.

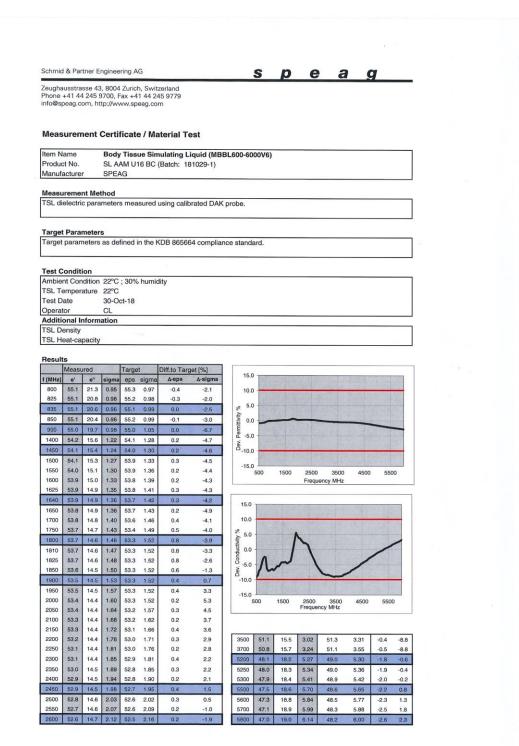
Not mentioned CAS-, EINECS- or registration numbers are to be regarded as Proprietary/Confidential. The specific chemical identity and/or exact percentage concentration of proprietary components is withheld as a trade secret.

Figure B -19-1

Note: Liquid recipes are proprietary SPEAG. Since the composition is approximate to the actual liquids utilized, the manufacturer tissue-equivalent liquid data sheets are provided below.

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TSL Dielectric Parameters

Figure B-19-2		
600 – 5800 MHz Body Tissue Equivalent Matter		

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