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## Lubricious Moisturizing Lotion ARL-20-27-09

<b>PHASE A</b>	<b>% W/W</b>
<b>Pelemol GTO<sup>1</sup> (Triethylhexanoin)</b>	3.50
<b>Pelemol GTIS<sup>1</sup> (Triisostearin)</b>	2.00
<b>Pelemol 899<sup>1</sup> (Isononyl Isononanoate (and) Ethylhexyl Isononanoate)</b>	3.50
<b>Pelemol ICB<sup>1</sup> (Isocetyl Behenate)</b>	3.00
<b>Pelemol TMPIS (Trimethylolpropane Triisostearate)</b>	2.00
<b>Pelemol DISM<sup>1</sup> (Diisostearyl Malate)</b>	3.50
<b>Pecosil FSL-300<sup>1</sup> (Perfluorononyl Dimethicone)</b>	0.75
<b>Phenoxtol T<sup>1</sup> (Cetearyl Alcohol (and) Steareth-30 (and) Ceteth-10)</b>	4.00
Alfol 1618 <sup>2</sup> (Cetearyl Alcohol)	1.00
Vitamin E Acetate <sup>3</sup> (Tocopheryl Acetate)	0.50
<b>PHASE B</b>	
Water	45.25
Versene NA2 <sup>4</sup> (Disodium EDTA)	0.10
Keltrol T <sup>5</sup> (Xanthan Gum)	0.20
Actiphyte of White Tea <sup>6</sup> (Glycerin (and) Camellia Sinensis Leaf Extract)	1.00
<b>PHASE C</b>	
Water	20.00
RITA Glycerin USP Kosher <sup>7</sup> (Glycerin)	1.00
<b>Phenoxyde E-400<sup>1</sup> (PEG-400)</b>	3.00
<b>Pecogel H-12/A<sup>1</sup> (Water (and) VP/Polycarbamyl Polyglycol Ester)</b>	0.40
<b>PHASE D</b>	
Sepiplus S <sup>8</sup> (Hydroxyethyl Acrylate/Sodium Acryloyldimethyl Taurate Copolymer (and) Polyisobutene (and) PEG-7 Trimethylolpropane Coconut Ether)	1.00
<b>PHASE E</b>	
Propylene Glycol <sup>9</sup> (Propylene Glycol)	3.00
Dry Flo PC <sup>10</sup> (Aluminum Starch Octenylsuccinate)	1.00
Preservative	<u>Q.S.</u>
	100.00
<b>1. PHOENIX CHEMICAL, Inc.</b>	
2. Sasol Chemicals	
3. BASF Care Creations	
4. Dow Chemical	
5. C.P. Kelco Co.	
6. Lipotec S.A.U.	
7. RITA Corporation	
8. Seppic	
9. Vigon	
10. Nouryon	

**Procedure:**

Phase A: In side mixing vessel, combine Phase A and heat to 70-75°C, mixing until uniform.

Phase B: Charge Phase B water into main mixing vessel and heat to 70-75°C. Add disodium EDTA and extract and mix until uniform. While maintaining heat, add xanthan gum and mix until phase is homogenous.

Phase C: Combine Phase C in side vessel, heat to 70-75°C and mix until uniform. Add Phase C to Phase B and mix thoroughly. While maintaining temperature, add Phase A to Phases B/C with high speed mixing

Phase D: Add Phase D to emulsion and mix until homogenous. Cool to 30°C.

Phase E: Pre-mix propylene glycol with Dry Flo PC into a slurry. Add slurry to emulsion and mix until uniform. Add preservative and mix thoroughly until homogenous while cooling to room temperature.

<b>INGREDIENT</b>	<b>FUNCTION</b>
<b>Pelemol GTO</b>	Light, very emollient, non-tacky ester with light cushion and spreadability
<b>Pelemol GTIS</b>	Lubricious emollient, good cushion, substantive to skin
<b>Pelemol 899</b>	Low viscosity ester, dry feel and light cushion. Reduces tack and improves spreadability
<b>Pelemol ICB</b>	Medium to dry, very emollient ester; odorless, tasteless
<b>Pelemol TMPIS</b>	Extremely emollient with superior cushion. Modifier for plasticity/melt point of high melt esters
<b>Pelemol DISM</b>	Light silky emolliency, substantive to skin, odorless
<b>Pecosil FSL-300</b>	Both hydrophobic and oleophobic, provides sebum control, quick drying, and wear
<b>Phoexol T</b>	Emulsifier
<b>Phoexide E-400</b>	Humectant, solvent, emulsifier
<b>Pecogel H-12/A</b>	Polymer solution in water; forms a flexible, non-tacky film; provides water resistance