

# Waterless Hand Cleaner

Contains REACT-NTI products (highlighted in red)

## Formulary

Ingredients	% Wt.
<i>Phase A</i>	
Arcosolv PnB (or PNP) (Lyondell) (propylene glycol n-butyl ether (or) propylene glycol n-propyl ether)	3.00
PEG-9 (nonyl phenyl ether surfactant)	4.00
Oleic acid	7.50
MPDiol Glycol (Lyondell) (methyl propanediol)	1.50
<i>Phase B</i>	
Triethanolamine	1.50
<i>Phase C</i>	
Water	42.50
<i>Phase D</i>	
<b>EnviroSolve (React-NTI)</b>	<b>40.00</b>
Lanolin (optional)	1.00
Fragrance	q.s.
<i>Procedure</i>	
1.	Slowly mix Phase A ingredients until uniform.
2.	Add Phase B and mix until uniform.
3.	Heat water to 50-70°C.
4.	Add combined Phase A/B slowly to the water to minimize foaming.
5.	Add the lanolin and fragrance to the kerosine and mix until uniform.
6.	With gentle mixing, add Phase D to the water mixture.
7.	Continue stirring while cooling until the formation thickens at ~30°C.



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